

## MSDS

### Adhesive

- Construction Adhesive
- General Purpose Adhesive
- Liquid Nails Adhesive
- Phenoseal Vinyl Caulk Adhesive
- Structural Adhesive
- Subfloor Adhesive

### Cleaner

- Ammonia
- Dirtex Powder
- DMQ Damp Mop Neutral Cleaner
- Fast & Easy
- Foamy Q & A
- MLD Bowl Cleanse
- Simple Green
- Zep – Citrus All-Purpose Cleaner

### Formica

### Gypsum Panels

### Insulation

- Wool Insulation
- Fiberglass Insulation

### Joint Treatment Ready Mixed Compounds

### Paints

- Polyurethane
  - Clear Gloss
  - Clear Satin
  - Water Thinned
  - Latex Fire Retardant
  - Latex Flat
  - Latex Semi-Gloss

Paint Thinners  
Carbon Tetrachloride  
Cellulose Acetate  
Kerosene  
Lacquer Retarder  
Lacquer Thinner

Portland Cement

Sealants  
Silicone Adhesive Sealant  
Pipe Joint Compound

Wood Products  
Plywood  
Particle Board  
Fire Retardant, Pressure Treated Lumber  
Pressure Treated Lumber  
Wood Preservative  
Wood Dust

Disinfectants

MACKLANBURG-DUNCAN -- 88500 LOCKBOND CONSTRUCTION ADHESIVE AFG-01 -- 8040-00F026607

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Product Identification  
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Product ID:88500 LOCKBOND CONSTRUCTION ADHESIVE AFG-01

MSDS Date:01/17/1991

FSC:8040

NIIN:00F026607

MSDS Number: BQJQG

=== Responsible Party ===

Company Name:MACKLANBURG-DUNCAN

Address:4041 NORTH SANTA FE

Box:25188

City:OKLAHOMA CITY

State:OK

ZIP:73125

Country:US

Info Phone Num:405-528-4411

Emergency Phone Num:405-528-4411

CAGE:82464

=== Contractor Identification ===

Company Name:MACKLANBURG-DUNCAN

Address:4041 N SANTA FE

Box:City:OKLAHOMA CITY

State:OK

ZIP:73118-0188

Country:US

Phone:800-654-8454 / 405-528-4411

CAGE:82464

=====  
Composition/Information on Ingredients  
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Ingred Name:ETHYLENE GLYCOL, GLYCOL

CAS:107-21-1

RTECS #:KW2975000

Fraction by Wt: <3%

Other REC Limits:10 MG/CUM

OSHA PEL:50 PPM

ACGIH TLV:50 PPM

EPA Rpt Qty:1 LB

DOT Rpt Qty:1 LB

Ingred Name: BUTYL BENZYL PHTHALATE, BBP, BENZYL BUTYL PHTHALATE  
1,2-BENZENEDICARBOXYLIC ACID, BUTYL PHENYLMETHYL ESTER

CAS: 85-68-7

RTECS #: TH9990000

Fraction by Wt: <2%

Other REC Limits: 5 MG/CUM

EPA Rpt Qty: 100 LBS

DOT Rpt Qty: 100 LBS

Ingred Name: KEROSENE (PETROLEUM), HYDROTREATED (C10-C15 SATURATED  
HYDROCARBONS 97%, C10 AROMATICS 3%) \*95-3\*

CAS: 64742-47-8

RTECS #: OA5504000

Fraction by Wt: <3%

Other REC Limits: 200 PPM EXXON

OSHA PEL: 100 PPM

Ingred Name: ISOPROPANOL (ISOPROPYL ALCOHOL), 2-PROPANOL, DIMETHYL  
CARBINOL

CAS: 67-63-0

RTECS #: NT8050000

Fraction by Wt: <3%

Other REC Limits: 400 PPM

OSHA PEL: 400 PPM

ACGIH TLV: 400 PPM

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Hazards Identification  
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Routes of Entry: Inhalation: YES Skin: NO Ingestion: YES  
Reports of Carcinogenicity: NTP: NO IARC: NO OSHA: NO  
Health Hazards Acute and Chronic: INHALATION: DIZZINESS, BREATHLESSNESS,  
DROWSINESS. INGESTION: NAUSEA.  
Explanation of Carcinogenicity: NONE

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First Aid Measures  
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First Aid: INGESTION: DON'T INDUCE VOMITING. SKIN: WASH AFFECTED AREAS  
W/SOAP & WATER. IHALATION: REMOVE TO FRESH AIR. OBTAIN MEDICAL  
ATTENTION IN ALL CASES.

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Fire Fighting Measures  
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Flash Point Method: TCC

Flash Point:53F ISOPROPANOL

Lower Limits:1% SEE SUPP

Upper Limits:6% SEE SUPP

Extinguishing Media:CO2, FOAM, DRY CHEMICAL

Fire Fighting Procedures:SELF-CONTAINED BREATHING APPARATUS IN POSITIVE PRESSURE MODE & FULL PROTECTIVE GEAR SHOULD BE WORN.

Unusual Fire/Explosion Hazard:IRRITATING OR TOXIC GASES & AEROSOLS MAY BE PRODUCED DURING BURNING.

===== Accidental Release Measures =====

Spill Release Procedures:SCRAPE INTO CONTAINERS & DISPOSE OF IN ACCORDANCE W/LOCAL, STATE & FEDERAL REGULATIONS.

===== Handling and Storage =====

Handling and Storage Precautions:DON'T STORE NEAR HEAT SOURCES, SPARKS OR FLAME. STORE BETWEEN 40-120F. DON'T FREEZE. USE ONLY IN WELL VENTILATED AREAS.

Other Precautions:DON'T INGEST. KEEP AWAY FROM CHILDREN. AVOID CONTACT W/SKIN/EYES & CLOTHES.

===== Exposure Controls/Personal Protection =====

Respiratory Protection:NIOSH APPROVED ORGANIC VAPOR CARTRIDGE RESPIRATOR REQUIRED IF VAPORS EXCEED TLV.

Ventilation:ADEQUATE TO KEEP VAPOR BELOW TLV

Work Hygienic Practices:WASH HANDS THOROUGHLY AFTER HANDLING.

Supplemental Safety and Health

BOILING POINT, VAPOR PRESSURE, EVAPORATION RATE, FLASH POINT DATA ARE FOR ISOPROPANOL; VAPOR DENSITY, LEL, UEL DATA IS FOR MINERAL SPIRITS.

===== Physical/Chemical Properties =====

Boiling Pt:B.P. Text:180F SUPP

Vapor Pres:33 SUPP

Vapor Density:4.8 SUPP

Spec Gravity:1.52

Evaporation Rate & Reference:(BU AC = ): 2.88 SEE SUPP

Solubility in Water:COMPLETE

Appearance and Odor:BROWN/TAN MASTIC, SLIGHT ODOR

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Stability and Reactivity Data  
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Stability Indicator/Materials to Avoid: YES  
Stability Condition to Avoid: HEAT, SPARKS, FLAME, OXIDIZING AGENTS  
Hazardous Decomposition Products: CO<sub>2</sub>, CO

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Disposal Considerations  
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Waste Disposal Methods: SANITARY LANDFILL.

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THE DERMI-KLENE CO., INC. -- ADHESIVE, GENERAL PURPOSE -- 8040-00-754-2483

=====  
Product Identification  
=====

Product ID:ADHESIVE, GENERAL PURPOSE

MSDS Date:07/01/1991

FSC:8040

NIIN:00-754-2483

MSDS Number: BLSSF

=== Responsible Party ===

Company Name:THE DERMI-KLENE CO., INC.

Address:1901 S. BON VIEW AVENUE

City:ONTARIO

State:CA

ZIP:91761

Country:US

Info Phone Num:714-923-1135

Emergency Phone Num:714-923-1135

CAGE:DERMI

=== Contractor Identification ===

Company Name:STEVEN INDUSTRIES

Address:39 AVENUE C

Box:8

City:BAYONNE

State:NJ

ZIP:07002-3417

Country:US

Phone:201-437-6501

CAGE:33150

Company Name:THE DERMI-KLENE CO., INC.

Address:212 BERKELEY CIRCLE

City:FULLERTON

State:CA

ZIP:92631

Country:US

Phone:714-738-8090

CAGE:DERMI

=====  
Composition/Information on Ingredients  
=====

Ingred Name:NONHAZARDOUS INGREDIENTS

Other REC Limits:NONE SPECIFIED

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===== Hazards Identification =====

Routes of Entry: Inhalation:NO Skin:UNKNOWN Ingestion:YES  
Health Hazards Acute and Chronic:NONE

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===== First Aid Measures =====

First Aid:WASH EYES REPEATEDLY WITH WATER.

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===== Fire Fighting Measures =====

Flash Point:NONE  
Fire Fighting Procedures:NONE  
Unusual Fire/Explosion Hazard:NONE

=====  
===== Accidental Release Measures =====

Spill Release Procedures:ABSORB WITH SAWDUST OR OTHER INERT MATERIAL  
THEN SHOVEL TO SOLID WASTE DISPOAL. HOSE DOWN AREA. DISPOSE OF IN  
ACCORDANCE WITH FEDERAL, STATE & LOCAL REGULATIONS.

=====  
===== Handling and Storage =====

Handling and Storage Precautions:KEEP FROM FREEZING

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===== Exposure Controls/Personal Protection =====

Respiratory Protection:NONE  
Supplemental Safety and Health

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===== Physical/Chemical Properties =====

HCC:N1  
Boiling Pt:B.P. Text:212F,100C  
Melt/Freeze Pt:M.P/F.P Text:32  
Spec Gravity:1.1 (WATER=1)  
Solubility in Water:100%  
Appearance and Odor:MILKY WHITE LIQUID.

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===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES



=====  
===== Disposal Considerations =====

Waste Disposal Methods:SEWER OR TRASH IN ACCORANCE WITH FEDERAL, STATE  
& LOCAL REGULATIONS.

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document should seek competent professional advice to verify and  
assume responsibility for the suitability of this information to their  
particular situation.

MACCO ADHESIVES -- AHE90306TNO LN903, LIQUID NAILS ADHESIVE, -- -

=====  
Product Identification  
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Product ID:AHE90306TNO LN903, LIQUID NAILS ADHESIVE,  
MSDS Date:10/04/1999  
FSC:NIIN:Submitter:N EN  
Status Code:A  
MSDS Number: CLFVL  
=== Responsible Party ===  
Company Name:MACCO ADHESIVES  
Address:925 EUCLID AVENUE  
City:CLEVELAND  
State:OH  
ZIP:44115  
Country:US  
Info Phone Num:1-800-545-2643  
Emergency Phone Num:1-800-545-2643  
Resp. Party Other MSDS Num.:AHE 90306TNO  
CAGE:U0049

=== Contractor Identification ===

Company Name:MACCO ADHESIVES  
Address:925 EUCLID AVENUE  
Box:City:CLEVELAND  
State:OH  
ZIP:44115  
Country:US  
Phone:1-800-545-2643  
CAGE:U0049

=====  
Composition/Information on Ingredients  
=====

Ingred Name:LIMESTONE  
CAS:1317-65-3  
RTECS #:EV9580000  
Minumum % Wt:40.  
Maxumum % Wt:50.  
OSHA PEL:5 MG/M3 TWA  
ACGIH TLV:10 MG/M3 TWA

Ingred Name:KAOLIN  
CAS:1332-58-7  
RTECS #:GF1670500

Minumum % Wt:10.  
Maxumum % Wt:20.  
OSHA PEL:5 MG/M3 TWA  
ACGIH TLV:2 MG/M3 TWA

Ingred Name:QUARTZ  
CAS:14808-60-7  
RTECS #:VV7330000  
Minumum % Wt:.1  
Maxumum % Wt:1.  
OSHA PEL:0.1 MG/KG TWA  
ACGIH TLV:0.1 MG/M3 TWA

Ingred Name:BENZENE, 1,3-DIETHENYL-, PLOYMER WITH 1,3-BUTADIENE AND  
ETHENYLBENZENE. (STYRENE-BUTADIENE POLYMER)  
CAS:26471-45-4  
Minumum % Wt:1.  
Maxumum % Wt:5.

Ingred Name:MAGNESIUM CARBONATE  
CAS:546-93-0  
RTECS #:OM2470000  
Minumum % Wt:1.  
Maxumum % Wt:5.  
OSHA PEL:5 MG/M3 TWA  
ACGIH TLV:10 MG/M3 TWA

Ingred Name:MINERAL OIL, HEAVY NAPHTHENIC DISTILLATE. (PETROLEUM  
HYDROCARBON)  
CAS:64742-52-5  
RTECS #:PY8035000  
Minumum % Wt:1.  
Maxumum % Wt:5.  
OSHA PEL:5 MG/M3 TWA  
ACGIH TLV:5 MG/M3 TWA  
ACGIH STEL:10 MG/M3

Ingred Name:SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC. (LIGHT  
ALIPHATC SOLVENT NAPHTHA (PETROLEUM))  
CAS:64742-89-8  
Minumum % Wt:10.  
Maxumum % Wt:20.  
OSHA PEL:300 PPM TWA

Ingred Name:2-PROPANONE. (ACETONE)

CAS:67-64-1

RTECS #:AL3150000

Minumum % Wt:1.

Maxumum % Wt:5.

OSHA PEL:1000 PPM

ACGIH TLV:500 PPM TWA

ACGIH STEL:750 PPM

EPA Rpt Qty:5000 LBS

DOT Rpt Qty:5000 LBS

Ingred Name:DISTILLATES (PETROLEUM), STEAM-CRACKED, POLYMERS WITH LIGHT STEAM-CRACKED PETROLEUM NAPHTHA. (AROMATIC HYDROCARBON RESIN)

CAS:68410-16-2

Minumum % Wt:10.

Maxumum % Wt:20.

Ingred Name:RESIN ACIDS AND ROSIN ACIDS, ESTERS WITH GLYCEROL. (ROSIN GLYCEROL ESTER)

CAS:8050-31-5

Minumum % Wt:1.

Maxumum % Wt:5.

ACGIH TLV:5 MG/M3 TWA

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Hazards Identification  
=====

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO

Health Hazards Acute and Chronic:INHALATION: PROLONGED INHALATION MAY LEAD TO MUCOUS MEMBRANE IRRITATION, FATIGUE, DROWSINESS, DIZZINESS, AND/OR LIGHTHEADNESS, HEADACHE, UNCOORDINATION, NAUSEA, VOMITING, ABDOMINAL PAIN, COUGHING, DIF FICULTY WITH SPEECH, CENTRAL NERVOUS SYSTEM DEPRESSION, ANESTHETIC EFFECT OR NARCOSIS, DIFFICULTY OF BREATHING, BLOOD ABNORMALITIES, LIVER DAMAGE, KIDNEY DAMAGE, LOSS OF CONSCIOUSNESS, ASPHYXIATION, DEATH. SKIN: IRRITATION. PROLONGED OR REPEATED CONTACT CAN CAUSE DERMATITIS, DEFATTING. EYE: IRRITATION. PROLONGED OR REPEATED CONTACT CAN CAUSE CONJUNCTIVITIS, BLURRED VISION, TEARING OF EYES, REDN ESS (SIGNS & SYMPTOMS OF OVEREXPOSURE)

Explanation of Carcinogenicity:QUARTZ (CAS 14808-60-7): NTP: YES, IARC: YES 1. PETROLEUM HYDROCARBON (CAS 64742-52-2): IARC: YES 1. CONTAINS CRYSTALLINE SILICA WHICH IS CONSIDERED A HAZARD BY

INHALATION. IARC HAS CLASSIFIED CRYSTA LLINE SILICA AS CARCINOGENIC TO HUMANS (GROUP 1). NTP HAS CLASSIFIED CRYSTALLINE SILICA A REASONABLY ANTICIPATED CARCINOGEN. (SIGNS & SYMPTOMS OF OVEREXPOSURE)

Effects of Overexposure:N/P. HEALTH HAZARDS ACUTE AND CHRONIC (CONT): OF EYES, SEVERE EYE IRRITATION. INGESTION MAY CAUSE LUNG INFLAMMATION & DAMAGE DUE TO ASPIRATION OF MATERIAL INTO LUNGS, MUCOUS MEMBRANE IRRITATION, NAUSEA, VOMITING, DIARRHEA, GASTRO-INTESTINAL DISTURBANCES, ABDOMINAL PAIN, CENTRAL NERVOUS SYSTEM DEPRESSION. EXPLANATION OF CARCINOGENICITY (CONT): CRYSTALLINE SILICA IS ALSO A KNOWN CAUSE OF SILICOSIS, A NONCANCEROUS LUNG DISEASE.

Medical Cond Aggravated by Exposure:EYE, SKIN, RESPIRATORY DISORDERS, LUNG DISORDERS.

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===== First Aid Measures =====

First Aid:INHALATION: REMOVE TO FRESH AIR. RESTORE AND SUPPORT CONTINUED BREATHING. GET EMERGENCY MEDICAL ATTENTION. HAVE TRAINED PERSON GIVE OXYGEN IF NECESSARY. GET MEDICAL HELP FOR ANY BREATHING DIFFICULTY. REMOVE TO FRESH AIR IF INHALATION CAUSES EYE WATERING, HEADACHES, DIZZINESS, OR OTHER DISCOMFORT. GET MEDICAL ATTENTION IF DISCOMFORT OR IRRITATION PERSISTS. SKIN CONTACT: FLUSH FROM SKIN WITH WATER. THEN WASH THOROUGHLY WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING. WASH CONTAMINATED CLOTHING BEFORE RE-USE. IF IRRITATION OCCURS, CONSULT A PHYSICIAN. EYE CONTACT: FLUSH IMMEDIATELY WITH LARGE AMOUNTS OF WATER, (OTHER INFORMATION)

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===== Fire Fighting Measures =====

Flash Point Method:SCC

Flash Point:=-4.4C, 24.F

Lower Limits:1.2%

Upper Limits:7.0%

Extinguishing Media:DRY CHEMICAL OR FOAM, WATER FOG, CARBON DIOXIDE.

Fire Fighting Procedures:WATER MAY BE USED TO COOL AND PROTECT EXPOSED CONTAINERS. FIREFIGHTERS SHOULD USE FULL PROTECTIVE CLOTHING, EYE PROTECTION, AND (NIOSH APPROVED - ) SELF-CONTAINED BREATHING APPARATUS. UNUSU AL FIRE & EXPLOSION HAZARD (CONT): UNDER FIRE CONDITIONS EMITTING IRRITANT AND/OR TOXIC GASES.

Unusual Fire/Explosion Hazard:CLOSED CONTAINERS MAY EXPLODE WHEN EXPOSED TO EXTREME HEAT OR FIRE. VAPORS MAY IGNITE EXPLOSIVELY AT AMBIENT TEMPERATURES. VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL

LONG DISTANCES TO A SOURCE OF IGNITION AND FLASH BACK. CLOSED CONTAINERS MAY BURST IF EXPOSED TO EXTREME HEAT OR FIRE. MAY DECOMPOSE (FIREFIGHTING PROC)

===== Accidental Release Measures =====

Spill Release Procedures:COMPLY WITH ALL APPLICABLE HEALTH AND ENVIRONMENTAL REGULATIONS. ELIMINATE ALL SOURCES OF IGNITION. VENTILATE AREA WITH EXPLOSION-PROOF EQUIPMENT. SPILLS MAY BE COLLECTED WITH ABSORBENT MATERIALS. USE NON-SPARKING TOOLS. EVACUATE ALL UNNECESSARY PERSONNEL. PLACE COLLECTED MATERIAL IN PROPER CONTAINER. COMPLETE PERSONAL PROTECTIVE EQUIPMENT MUST BE USED DURING CLEANUP. (OTHER INFORMATION)

===== Handling and Storage =====

Handling and Storage Precautions:STORE BELOW 80F. KEEP AWAY FROM HEAT, SPARKS AND OPEN FLAME. OTHER PRECAUTIONS (CONT): TRANSFERRING TO PREVENT ACCUMULATION OF STATIC CHARGE. WASH HANDS THOROUGHLY AFTER HANDLING, ESPECIALLY BEFORE EATING OR SMOKING.

Other Precautions:USE ONLY WITH ADEQUATE VENTILATION. DO NOT TAKE INTERNALLY. KEEP OUT OF REACH OF CHILDREN. AVOID CONTACT WITH SKIN AND EYES, AND BREATHING OF VAPORS. KEEP CONTAINERS TIGHTLY CLOSED AND UPRIGHT WHEN NOT IN USE. EMPTY CONTAINERS MAY CONTAIN HAZARDOUS RESIDUES. GROUND EQUIPMENT WHEN (HANDLING AND STORAGE PRECAUTIONS)

===== Exposure Controls/Personal Protection =====

Respiratory Protection:CONTROL ENVIRONMENTAL CONCENTRATIONS BELOW APPLICABLE EXPOSURE STANDARDS WHEN USING THIS MATERIAL. WHEN RESPIRATORY PROTECTION IS DETERMINED TO BE NECESSARY , USE A NIOSH (CANADIAN Z94.4) APPROVED ELASTOMERIC SEALING-SURFACE FACEPIECE RESPIRATOR OUTFITTED WITH ORGANIC VAPOR CARTRIDGES AND PAINT SPRAY (DUST/MIST) PREFILTERS. (SUPPLEMENTAL SAFETY AND HEALTH)

Ventilation:PROVIDE DILUTION VENTILATION OR LOCAL EXHAUST TO PREVENT BUILD-UP OF VAPORS. USE EXPLOSION-PROOF EQUIPMENT. USE NON-SPARKING EQUIPMENT.

Protective Gloves:IMPERVIOUS GLOVES

Eye Protection:SAFETY GLASSES OR GOGGLES (ANSI APPROVED - ).

Other Protective Equipment:EYE WASH AND DELUGE SHOWER MEETING ANSI CRITERIA . IMPERVIOUS CLOTHING, FACE SHIELD.

Work Hygienic Practices:WASH HANDS AFTER HANDLING AND BEFORE EATING,

DRINKING, SMOKING OR USING TOILET. LAUNDRER CONTAMINATED CLOTHES BEFORE REUSE.

Supplemental Safety and Health

ITEM NAME (CONT): MULTI-PURPOSE CONSTRUCTION ADHESIVE. PRODUCT USE: ADHESIVE / CAULK. RESPIRATORY PROTECTION (CONT): DETERMINE THE PROPER LEVEL OF PROTECTION BY CONDUCTING APPROPRIATE AI R MONITORING. CONSULT 29 CFR 1910.134 FOR SELECTION OF RESPIRATORS (CANADIAN Z94.4).

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Physical/Chemical Properties  
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Boiling Pt:=56.1C, 133.F  
Vapor Pres:NOT AVAILABLE  
Spec Gravity:1.443  
pH:NOT AVAILABLE  
Solubility in Water:NO  
Appearance and Odor:PASTE, TAN COLOR. ODOR: NOT SPECIFIED BY MANUFACTURER .  
Percent Volatiles by Volume:32.31

=====  
Stability and Reactivity Data  
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Stability Indicator/Materials to Avoid:YES  
OXIDIZERS, ACIDS, BASES, AMINES, NITRIC ACID  
Stability Condition to Avoid:ELEVATED TEMPERATURES, CONTACT WITH OXIDIZING AGENT, SPARKS, OPEN FLAME, IGNITION SOURCES  
Hazardous Decomposition Products:CARBON MONOXIDE, CARBON DIOXIDE, ACRID FUMES, FORMALDEHYDE, OXIDES OF SULFUR, TOXIC GASES.

=====  
Toxicological Information  
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Toxicological Information:SUPPLEMENTAL HEALTH INFORMATION: CONTAINS A CHEMICAL THAT MAY BE ABSORBED THROUGH THE SKIN. NOTICE - REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED OCCUPATIONAL OVEREXPOSURE TO SOLVENTS WITH PERMANENT BRAIN AND NEERVOUS SYSTEM DAMAGE. INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS MAY BE HARMFUL OR FATAL. OTHER EFFECTS OF OVEREXPOSURE MAY INCLUDE TOXICITY TO THE KIDNEYS . REPRODUCTIVE EFFECTS: NO REPRODUCTIVE EFFECTS ARE ANTICIPATED. MUTAGENICITY: NO MUTAGENIC EFFECTS ARE ANTICIPATED. TERATOGENICITY: NO TERATOGENIC EFFECTS ARE ANTICIPATED. (ECOLOGICAL INFO)

=====  
Ecological Information  
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Ecological:NO ECOLOGICAL TESTING HAS BEEN DONE BY ICI PAINTS ON THIS PRODUCT AS A WHOLE. TOXICOLOGICAL INFO (CONT): LIMESTONE (CAS 1317-65-3): CARCINOGENICITY: NTP-NO, IARC-NO, OSHA-NO, ACGIH-NO; LD50: 64 50 MG/KG (ORL, RAT). CLAY (CAS 1332-58-7): CARCINOGENICITY: NTP-NO, IARC-NO, OSHA-NO, ACGIH-NO. QUARTZ (CAS 14808-60-7): CARCINOGENICITY: NTP-YES, IARC-YES 1, OSHA-NO, ACGIH-NO. MAGNESIUM CARBONATE (CAS 546-93-0): CARCINOGENICITY: NTP-NO, IARC-NO, OSHA-NO, ACGIH-NO; LD50: 16 MG/KG (ITR, MOU). PETROLEUM HYDROCARBON (CAS 64742-52-5): CARCINOGENICITY: NTP-NO, IARC-YES 1, OSHA-NO, ACGIH-NO; LD50: >2000 MG/KG (SKN, RBT). (ECOLOGICAL INFO)

===== Disposal Considerations =====

Waste Disposal Methods:DISPOSE IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS. AVOID DISCHARGE TO NATURAL WATERS.

===== MSDS Transport Information =====

Transport Information:DOT: ADHESIVE,3, UN1133,III. IMDG: ADHESIVE,3, UN1133,III, LIMITED QUANTITY. IATA: NOT AVAILABLE. TDG: NOT AVAILABLE. ECOLOGICAL INFO (CONT): LIGHT ALIPHATIC SOLVENT NAPHTHA (PETROLEUM) (C AS 64742-89-8): CARCINOGENICITY: NTP-NO, IARC-NO, OSHA-NO, ACGIH-NO; LD50: >3.16 G/KG (SKN, RBT), >5 G/KG (ORL, RAT). ACETONE (CAS 67-64-1): CARCINOGENICITY: NTP-NO, IARC-NO, OSHA-NO, ACGIH-NO; LD50: 5800 MG/KG (ORL, RAT), >9400 MG/KG (SKN, GPG). AROMATIC HYDROCARBON RESIN (CAS 68410-16-2): CARCINOGENICITY: NTP-NO, IARC-NO, OSHA-NO, ACGIH-NO. ROSIN GLYCEROL ESTER (CAS 8050-31-5): CARCINOGENICIT Y: NTP-NO, IARC-NO, OSHA-NO, ACGIH-NO.

===== Regulatory Information =====

SARA Title III Information:ACETONE (CAS 67-64-1): SARA 302 - NO, SARA 313 - NO.

Federal Regulatory Information:ACETONE (CAS 67-64-1): CERCLA 302.4 - YES, HAZ AIR POLLUTANT - NO, MARINE POLTNT - NO. AS OF THE DATE OF THIS MSDS, ALL COMPONENTS OF THIS MSDS ARE LISTED (OR ARE EXEMPT FROM LISTING) ON THE TSCA INVENTORY. THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CPR ( CONTROLLED PRODUCT REGULATIONS) AND THE MSDS CONTAINS ALL THE INFORMATION REQUIRED BY CPR.



=====  
Other Information  
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GLOUCESTER CO LTD -- PHENOSEAL VINYL ADHESIVE CAULK 100 SERIES -- 8040-00F026506

=====  
Product Identification  
=====

Product ID:PHENOSEAL VINYL ADHESIVE CAULK 100 SERIES

MSDS Date:01/09/1991

FSC:8040

NIIN:00F026506

MSDS Number: BQJKL

=== Responsible Party ===

Company Name:GLOUCESTER CO LTD

Address:235 COTTAGE STREET

Box:428

City:FRANKLIN

State:MA

ZIP:02038

Country:US

Info Phone Num:800-343-4963

Emergency Phone Num:800-343-4963

CAGE:G0195

=== Contractor Identification ===

Company Name:GLOUCESTER CO LTD

Address:235 COTTAGE STREET

Box:428

City:FRANKLIN

State:MA

ZIP:02038

Country:US

Phone:800-343-4963

CAGE:G0195

=====  
Composition/Information on Ingredients  
=====

Ingred Name:GLYCOL & GLYCOL ETHERS

=====  
Hazards Identification  
=====

Routes of Entry: Inhalation:NO Skin:NO Ingestion:NO

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:SKIN: IRRITATION & REDNESS.

Explanation of Carcinogenicity:NONE

=====  
First Aid Measures  
=====

First Aid:INGESTION: DILUTE BY GIVING 2 GLASSES OF WATER. EYES: FLUSH W/WATER FRO 15 MINS. SKIN: WASH W/SOAP & WATER. OBTAIN MEDICAL ATTENTION IN ALL CASES.

=====  
Fire Fighting Measures  
=====

Extinguishing Media:DRY FILM CAN BURN, USE ANY AVAILABLE EXTINGUISHING MATERIAL

=====  
Accidental Release Measures  
=====

Spill Release Procedures:SCOOP INTO SUITABLE CONTAINER FOR USE OR DISPOSAL. CLEAN UP W/WATER.

=====  
Handling and Storage  
=====

Handling and Storage Precautions:KEEP FROM FREEZING. AVOID TEMPERATURES >150F, PRODUCT STABILITY MAY BE AFFECTED. KEEP CONTAINER CLOSED TO AVOID "SKINNING."

=====  
Exposure Controls/Personal Protection  
=====

Ventilation:MECHANICAL (GENERAL): ADEQUATE  
Protective Gloves:IMPERVIOUS  
Eye Protection:AS REQUIRED  
Work Hygienic Practices:WASH HANDS & FACE BEFORE SMOKING OR EATING.  
Supplemental Safety and Health

=====  
Physical/Chemical Properties  
=====

Boiling Pt:B.P. Text:212F (100C)  
Melt/Freeze Pt:M.P/F.P Text:32F (0C)  
Vapor Pres:AS WATER  
Vapor Density:>1  
Spec Gravity:1.1-1.3  
Evaporation Rate & Reference:(BU AC = 1): <1  
Solubility in Water:COMPLETE  
Appearance and Odor:MILKY (OR COLORED) AQUEOUS LATEX PASTE W/MILD ODOR

=====  
Stability and Reactivity Data  
=====

Stability Indicator/Materials to Avoid: YES

===== Disposal Considerations =====

Waste Disposal Methods: DISPOSE OF IN ACCORDANCE W/LOCAL, STATE, & FEDERAL REGULATIONS.

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3M COMPANY -- SCOTCHWELD STRUCTURAL ADHESIVE EC-1571B -- 8040-00-123-6954

=====  
Product Identification  
=====

Product ID:SCOTCHWELD STRUCTURAL ADHESIVE EC-1571B  
MSDS Date:01/01/1987  
FSC:8040  
NIIN:00-123-6954  
Kit Part:Y  
MSDS Number: BCZTR

=== Responsible Party ===

Company Name:3M COMPANY  
Emergency Phone Num:612 733-2328  
CAGE:76381

=== Contractor Identification ===

Company Name:MINNESOTA MINING AND MFG CO, DBA 3M  
Address:3M CENTER BLDG 224-5S-04  
Box:City:SAINT PAUL  
State:MN  
ZIP:55144-1000  
Country:US  
Phone:866-556 5712 / 612-733-1110  
CAGE:76381

=====  
Composition/Information on Ingredients  
=====

Ingred Name:N-BUTYL GLYCIDYL ETHER (BGE)  
CAS:2426-08-6  
RTECS #:TX4200000  
Fraction by Wt: 55%  
OSHA PEL:50 PPM  
ACGIH TLV:25 PPM; 9293

=====  
Hazards Identification  
=====

Effects of Overexposure:SKIN,EYE IRRITANT, MAY CAUSE SKIN SENSITIZATION

=====  
First Aid Measures  
=====

First Aid:SKIN:WASH WITH SOAP AND WATER.EYE:FLUSH WITH PLENTY OF  
WATER-CALL A DOCTOR

=====  
Fire Fighting Measures  
=====

Flash Point:200F. 93.3C  
Extinguishing Media:CO\*2,FOAM,DRY CHEMICAL  
Fire Fighting Procedures:NONE  
Unusual Fire/Explosion Hazard:NONE

===== Accidental Release Measures =====

Spill Release Procedures:COLLECT SPILLED MATERIAL,CLEAN UP RESIDUE

===== Handling and Storage =====

Handling and Storage Precautions:USE IN WELL VENTILATED AREA,AVOID SKIN,EYE CONTACT,BREATHING OF VAPORS AND DUST.KEEP FROM FOOD PRODUCTS.WASH HANDS AFTER USE,LAUNDRER CLOTHING

===== Exposure Controls/Personal Protection =====

Ventilation:MECHANICAL  
Protective Gloves:RECOMMENDED  
Other Protective Equipment:APRON  
Supplemental Safety and Health

===== Physical/Chemical Properties =====

HCC:N1  
Spec Gravity:1.30  
Solubility in Water:SLIGHT  
Appearance and Odor:GRAY VISCOUS,LITTLE ODOR  
Percent Volatiles by Volume:0

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

===== Disposal Considerations =====

Waste Disposal Methods:INCINGRATE PROPERLY.DO NOT LANDFILL

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disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.

FRANKLIN INTERNATIONAL -- TITEBOND ES-727 SUBFLOOR ADHESIVE, 3431 -- 8040-00N046804

=====  
Product Identification  
=====

Product ID:TITEBOND ES-727 SUBFLOOR ADHESIVE, 3431

MSDS Date:11/01/1990

FSC:8040

NIIN:00N046804

MSDS Number: BVHQW

=== Responsible Party ===

Company Name:FRANKLIN INTERNATIONAL

Address:2020 BRUCK ST

City:COLUMBUS

State:OH

ZIP:43207

Country:US

Info Phone Num:614-443-0241; 614-445-1411

Emergency Phone Num:614-443-0241; 614-445-1411

CAGE:F0059

=== Contractor Identification ===

Company Name:FRANKLIN INTERNATIONAL

Address:2020 BRUCK STREET

Box:City:COLUMBUS

State:OH

ZIP:43207

Country:US

Phone:800-877-4583/614-445-1493

CAGE:25589

Company Name:FRANKLIN INTERNATIONAL

Address:2020 BRUCK ST

City:COLUMBUS

State:OH

ZIP:43207

Phone:800-877-4583

CAGE:F0059

=====  
Composition/Information on Ingredients  
=====

Ingred Name:NO INGREDIENT FOR THIS FORMULATION\_INGREDIENT

=====  
Fire Fighting Measures  
=====



Flash Point:NONE

Extinguishing Media:WATER IF DRIED ADHESIVE.

Fire Fighting Procedures:USE NIOSH/MSHA APPROVED SCBA & FULL PROTECTIVE EQUIPMENT .

Unusual Fire/Explosion Hazard:NONE

=====  
Exposure Controls/Personal Protection  
=====

Supplemental Safety and Health

=====  
Physical/Chemical Properties  
=====

HCC:C3

Boiling Pt:B.P. Text:212F,100C

Vapor Density:>1

Spec Gravity:1.45 (H2O=1)

pH:4-6

Evaporation Rate & Reference:<1 (WATER=1)

Solubility in Water:MISCIBLE

Appearance and Odor:PASTE CONSISTENCY, LIGHT BEIGE COLOR; MILD ODOR.

Percent Volatiles by Volume:22(WT)

=====  
Stability and Reactivity Data  
=====

Stability Indicator/Materials to Avoid:YES

STRONG ACIDS & STRONG BASES.

Stability Condition to Avoid:NONE

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NORTHEASTERN AMMONIA CO -- ANHYDROUS AMMONIA -- 6810-00F032029

=====  
Product Identification  
=====

Product ID:ANHYDROUS AMMONIA  
MSDS Date:06/01/1987  
FSC:6810  
NIIN:00F032029  
MSDS Number: BSPQQ  
=== Responsible Party ===  
Company Name:NORTHEASTERN AMMONIA CO  
Address:TACONY & VAN KIRK ST  
City:PHILADELPHIA  
State:PA  
ZIP:19135  
Country:US  
Info Phone Num:215-535-7530  
Emergency Phone Num:215-535-7530  
CAGE:0EWC8

=== Contractor Identification ===  
Company Name:NORTHEASTERN AMMONIA CO  
Address:TACONY & VAN KIRK ST  
Box:City:PHILADELPHIA  
State:PA  
ZIP:19135  
Country:US  
Phone:215-535-7530  
CAGE:0EWC8

=====  
Composition/Information on Ingredients  
=====

Ingred Name:AMMONIA, AMMONIUM HYDROXIDE-ANHYDROUS, ANHYDROUS AMMONIA  
CAS:7664-41-7  
RTECS #:BO0875000  
Other REC Limits:25 PPM  
OSHA PEL:35 MG/CUM  
ACGIH TLV:17 MG/CUM  
EPA Rpt Qty:100 LBS  
DOT Rpt Qty:100 LBS

=====  
Hazards Identification  
=====

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:INHALATION: SEVERE IRRITATION  
RESPIRATORY TRACT, GLOTTAL EDEMA, BRONCHOSPASIN, PULMONARY EDEMA,  
RESPIRATOR ARREST, BRONCHITIS, DEATH. SKIN: IRRITATION, CORROSIVE,  
BURNS, FROSTBITE.

Explanation of Carcinogenicity:NONE

Effects of Overexposure:EYES: LACHRYRATION, EDEMA, BLINDNESS. SKIN:  
CAUSTIC BURNS. INHALATION: SPASM, INFLAMMATION/EDEMA OF LARYNX.

=====  
First Aid Measures  
=====

First Aid:EYES: FLUSH W/PLENTY OF WATER FOR 15 MIN. INHALATION: REMOVE  
TO FRESH AIR. GIVE CPR/OXYGEN IF NECESSARY. SKIN: FLUSH W/PLENTY OF  
WATER FOR 15 MINUTES. REMOVE CONTAMINATED CLOTHING WHILE FLUSHING.  
DON' T RUB ARM. OBTAIN MEDICAL ATTENTION IN ALL CASES.

=====  
Fire Fighting Measures  
=====

Extinguishing Media:WATER SPRAY/FOG

Fire Fighting Procedures:WEAR PROTECTIVE CLOTHING/RESPIRATOR. STOP  
SOURCE OF LEAK. COOL FIRE-EXPOSED CONTAINERS W/WATER SPAY/USE WATER  
SPRAY TO KNOCK DOWN VAPOR/DILUTE. LET FIRE BURN.

Unusual Fire/Explosion Hazard:HEAT EXPOSED STORAGE CONTAINERS MAY  
BECOME EXPLOSION HAZARDS CONTACT OF AMMONIA W/CHEMICALS CAN FORM  
EXPLOSIVE COMPOUNDS. AUTOIGNITION TEMPERATURE: 1562F.

=====  
Accidental Release Measures  
=====

Spill Release Procedures:WEAR PROTECTED EQUIPMENT, SHUT OFF SOURCES IF  
POSSIBLE STAY UPWIND FROM SPILLS/LEAKS. CONTAIN BY DIKING/WATER  
SPRAY TO ABSORB AMMONIA GAS/DILUTE. ADDING WATER MAY INCREASE  
VOLALILIZATION OF AMMONIA TH US MAY INCREASE EXPOSURE.

=====  
Handling and Storage  
=====

Handling and Storage Precautions:STORE IN COOL WELL VENTILATED AREA  
W/CONTAINER TIGHTLY CLOSE.

Other Precautions:DON'T WEAR CONTACT LENSES.

=====  
Exposure Controls/Personal Protection  
=====

Respiratory Protection:MSHA/NIOSH APPROVED AIR PURIFYING TYPE W/FULL  
FACE PIECE.

Ventilation:ENGINEERING CONTROL TO 50 PPM/LESS  
Protective Gloves:IMPERVIOUS  
Eye Protection:GAS-LIGHT CHEMICAL GOGGLES  
Other Protective Equipment:CLOTHING/IMPERVIOUS/OVER SHOES/COTTON WORK  
CLOTHES/EYE WASH/SAFETY SHOWER  
Supplemental Safety and Health

===== Physical/Chemical Properties =====

Boiling Pt:B.P. Text:-33C/-28F  
Melt/Freeze Pt:M.P/F.P Text:-78C/-108F  
Vapor Pres:10  
Vapor Density:0.6  
Spec Gravity:0.618  
Evaporation Rate & Reference:>THAN WATER IF IN LIQUID  
Solubility in Water:COMPLETE  
Appearance and Odor:COLORLESS GAS W/PUNGENT ODOR.  
Percent Volatiles by Volume:100

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES  
CHLORINE/SULFLURIC/STRONG MINERAL ACIDS/CONTACT W/GALVANIZED  
STEEL/MERCURY IODINE/BROMINE/SILVER OXIDE/HYPOCHLORITES  
Stability Condition to Avoid:TEMPERATURES >450C.  
Hazardous Decomposition Products:HYDROGEN & NITROGEN GASES/OXIDES

===== Disposal Considerations =====

Waste Disposal Methods:COMPLY W/ALL REGULATIONS SPILL WILL EVAPORATE.  
CONTAMINATED WATER MAY BE USED ON AGRICULTUAL LAND AS FERTILIZER  
KEEP SPILL FROM ENTERING STREAMS/LAKES. UN 1005

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assume responsibility for the suitability of this information to their  
particular situation.

SAVOGRAN -- SAVOGRAN TSP -- 6850-00D002616

=====  
Product Identification  
=====

Product ID:SAVOGRAN TSP  
MSDS Date:11/01/1984  
FSC:6850  
NIIN:00D002616  
MSDS Number: BJFCD  
=== Responsible Party ===  
Company Name:SAVOGRAN  
Box:130  
City:NORWOOD  
State:MA  
ZIP:02062  
Country:US  
Info Phone Num:617-762-5400  
Emergency Phone Num:617-762-5400  
CAGE:86885

=== Contractor Identification ===  
Company Name:HOCKING INTERNATIONAL CHEMICAL CORP  
Address:2121 HOOVER AVE  
Box:City:NATIONAL CITY  
State:CA  
ZIP:92050  
Country:US  
Phone:619-474-8457  
CAGE:60930  
Company Name:SAVOGRAN  
Box:130  
City:NORWOOD  
State:MA  
ZIP:02062  
Country:US  
Phone:617-762-5400  
CAGE:86885

=====  
Composition/Information on Ingredients  
=====

Ingred Name:SODIUM PHOSPHATE, TRIBASIC (SARA III)  
CAS:7601-54-9  
RTECS #:TC9490000  
Fraction by Wt: >80%

Other REC Limits:NONE SPECIFIED

EPA Rpt Qty:5000 LBS

DOT Rpt Qty:5000 LBS

Ingred Name:SODIUM SESQUICARBONATE

CAS:6106-20-3

RTECS #:FG2099000

Fraction by Wt: <20%

Other REC Limits:NONE SPECIFIED

=====  
===== Hazards Identification =====

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:SEVERLY IRRITATING TO ALL BODY TISSUES. MAY CAUSE CHEMICAL BURNS AND IF INHALED. MAY CAUSE SERIOUS INJURY IF LARGE AMOUNTS ARE INGESTED. INHALATION OF DUST MAY CAUSE PULMONARY EDEMA.

Explanation of Carcinogenicity:THE PRODUCT CONTAINS NO INGREDIENT THAT IS LISTED BY IARC, NTP OR OSHA AS A CARCINOGEN.

Effects of Overexposure:SLIPPERY OR SOAPY FEELING TO SKIN. MAY ALSO INCLUDE BURNING SENSATION, COUGHING, WHEEZING, LARYNGITIS, SHORTNESS OF BREATH, HEADACHE, NAUSEA AND VOMITING.

Medical Cond Aggravated by Exposure:PEOPLE WITH A HISTORY OR ALGERIES TO SOAPS AND/OR DETERGENTS MAY BE AT INCREASED RISK WHEN CONTACTING THIS PRODUCT.

=====  
===== First Aid Measures =====

First Aid:EYE:FLUSH W/WATER 15 MIN, HOLD LIDS OPEN. SKIN:WASH WITH SOAP & WATER. REMOVE CONTAMINATED CLOTHING AND LAUNDRER BEFORE REUSE. INHALED:REMOVE TO FRESH AIR. RESTORE BREATHING IS NECESSARY. INGESTED:D O NOT INDUCE VOMITING. GIVE 2 LARGE GLASSES OF MILK OR WATER AND GET IMMEDIATE MEDICAL CARE. GIVE NOTHING BY MOUTH IF UNCONSCIOUS. IF IRRITATION PERSISTS OR IS SEVERE,SEE A DOCTOR.

=====  
===== Fire Fighting Measures =====

Flash Point:NON-FLAMMABLE

Extinguishing Media:PRODUCT IS NON FLAMMABLE. EXTINGUISH FIRE WITH MEDIA APPROPRIATE FOR SOURCE OF FIRE.

Fire Fighting Procedures:FIRE FIGHTERS SHOULD USE NIOSH APPROVED SCBA &

FULL PROTECTIVE EQUIPMENT WHEN FIGHTING CHEMICAL FIRE. USE WATER SPRAY TO COOL NEARBY CONTAINERS EXPOSED TO FIRE.

Unusual Fire/Explosion Hazard:NONE

===== Accidental Release Measures =====

Spill Release Procedures:SWEEP UP AND COLLECT IN CONTAINERS. RINSE AREA WITH WATER.

Neutralizing Agent:NO INFORMATION GIVEN BY MANUFACTURER

===== Handling and Storage =====

Handling and Storage Precautions:STORE IN A COOL, DRY AREA. KEEP CONTAINERS TIGHTLY CLOSED WHEN NOT IN USE. MOISTURE WILL CAUSE CAKING. KEEP AWAY FROM ACIDS.

Other Precautions:'EMPTY' CONTAINERS MAY CONTAIN RESIDUE. TREAT THEM WITH THE RESPECT DUE FULL ONES.

===== Exposure Controls/Personal Protection =====

Respiratory Protection:RESPIRATOR WILL NOT NORMALLY BE NECESSARY. USE NIOSH/MSHA APPROVED RESPIRATOR FOR ALKALINE DUST/MIST IF EXPOSURE IS ABOVE THE TLV/PEL. SEE 29 CFR 1910.134 FOR REGULATIONS PERTAINING TO RESPIRATOR USE .

Ventilation:NOT NORMALLY REQUIRED. USE LOCAL EXHAUSE IF WORKING IN DUSTY CONDITIONS.

Protective Gloves:RUBBER, VINYL OR OTHER IMPERVIOUS

Eye Protection:SAFETY GLASSES OR SPLASH GOGGLES

Other Protective Equipment:EYE WASH STATION AND SAFETY SHOWER.

Work Hygienic Practices:USE GOOD CHEMICAL HYGIENE PRACTICE. AVOID UNNECESSARY CONTACT.

Supplemental Safety and Health

===== Physical/Chemical Properties =====

HCC:B3

Spec Gravity:POWDER

Solubility in Water:MODERATE

Appearance and Odor:WHITE TO LIGHT COLORED CRYSTALLINE SOLID, NO ODOR

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

ACIDS

Stability Condition to Avoid:PRODUCT IS HYGROSCOPIC. MOISTURE WILL CAUSE IT TO CAKE.

Hazardous Decomposition Products:NONE. MAY GIVE OFF TOXIC FUMES IN FIRE.

=====  
===== Disposal Considerations =====

Waste Disposal Methods:DISPOSE I/A/W ALL FEDERAL, STATE AND LOCAL REGULATIONS. MANUFACTURER SUGGESTS THAT DISPOSAL MAY BE DONE BY FLUSHING NEUTRALIZED MATERIAL TO DRAIN OR LANDFILLING.

\*\*\*NOTE:SOME COMMUNITIES HAVE PHOSPH ATE BANS.\*\*\*

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SPARTAN CHEMICAL CO INC -- DMQ DAMP MOP NEUTRAL DISINFECTANT CLEANER --  
7930-01-418-1507

=====  
Product Identification  
=====

Product ID:DMQ DAMP MOP NEUTRAL DISINFECTANT CLEANER

MSDS Date:07/13/1993

FSC:7930

NIIN:01-418-1507

MSDS Number: CCLFW

=== Responsible Party ===

Company Name:SPARTAN CHEMICAL CO INC

Address:110 N WESTWOOD AVE

City:TOLEDO

State:OH

ZIP:43607-3340

Country:US

Info Phone Num:419-531-5551

Emergency Phone Num:419-531-5551

Preparer's Name:THOMAS J. MITCHELL

CAGE:23212

=== Contractor Identification ===

Company Name:SPARTAN CHEMICAL CO INC. IPG INDUSTRIAL PRODUCTS GROUP

Address:110 N WESTWOOD AVE

Box:City:TOLEDO

State:OH

ZIP:43607

Country:US

Phone:800-537-8990/419-531-5551

CAGE:23212

=====  
Composition/Information on Ingredients  
=====

Ingred Name:ISOPROPYL ALCOHOL (SARA 313)

CAS:67-63-0

RTECS #:NT8050000

Fraction by Wt: 1.0-5.0%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:980 MG/M3;STEL 1225

ACGIH TLV:NOT EST.

Ingred Name:N-ALKYL DIMETHYL BENZYL AMMONIUM CHLORIDE

CAS:68424-85-1

Fraction by Wt: 4.5%

Other REC Limits:NONE RECOMMENDED

=====  
Hazards Identification  
=====

LD50 LC50 Mixture:LD50 >5000 MG/KH RATS  
Routes of Entry: Inhalation:NO Skin:YES Ingestion:NO  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:CUASES SKIN IRRITATION & EYE DAMAGE.  
DO NOT GET IN EYES, OR ON SKIN OR CLOTHING. HARMFUL IF SWALLOWED.  
ACUTE ORAL TOXICITY.

=====  
First Aid Measures  
=====

First Aid:EYE: IN CASE OF CONTACT, IMMEDIATELY FLUSH W/WATER FOR AT  
LEAST 15 MIN. REMOVE CONTACT LENSES. CALL DR. SKIN: IMMEDIATELY  
FLUSH W/WATER FOR 15 MIN. REMOVE & WASH CONTAMINATED CLOTHING  
BEFORE REUSE. IN Ggestion: IF SWALLOWED, DRINK MILK, EGG WHITES,  
GELATIN SOLUTION, OR IF NOT AVAILABLE, DRINK LG AMTS WATER, CALL DR  
IMMED. DR. NOTE: PROBABLY MUCOSAL DAMAGE MAY CONTRAINDICATE THE USE  
OF GASTRIC LAVAGE

=====  
Fire Fighting Measures  
=====

Flash Point Method:TCC  
Flash Point:NONE  
Lower Limits:NA  
Upper Limits:NA  
Extinguishing Media:NA  
Fire Fighting Procedures:NA

=====  
Accidental Release Measures  
=====

Spill Release Procedures:SMALL QUANTITIES MAY BE FLUSHED INTO SANITARY  
SEWER SYSTEM. LARGER QUANTITIES SHOULD BE CONTAINED AND DISPOSED OF  
IN ACCORDANCE WITH STATE AND LOCAL REGULATIONS.

=====  
Handling and Storage  
=====

Handling and Storage Precautions:KEEP FROM FREEZING.  
Other Precautions:NONE

=====  
Exposure Controls/Personal Protection  
=====

Respiratory Protection:NONE REQUIRED.  
Ventilation:GOOD GENERAL VENTILATION SHOULD BE SUFFICIENT FOR MOST  
CONDITIONS. LOCAL EXHAUST MAY BE NECESSARY FOR SOME OPERATIONS.  
Protective Gloves:RUBBER OR PLASTIC.  
Eye Protection:GOGGLES OR FACE SHIELD.  
Other Protective Equipment:NONE  
Supplemental Safety and Health  
NK

===== Physical/Chemical Properties =====

Boiling Pt:B.P. Text:210F,99C  
Vapor Pres:17MMGH@75F  
Spec Gravity:0.995  
pH:5-6  
Evaporation Rate & Reference:<1 (BUAC=1)  
Solubility in Water:COMPLETE.  
Appearance and Odor:YELLOW LIQUID, LEMON FRAGRANCE.

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES  
STRONG OXIDIZERS.  
Hazardous Decomposition Products:CO, CO2

===== Disposal Considerations =====

Waste Disposal Methods:SAME AS ABOVE. CONTAINER DISPOSAL. TRIPLE RINSE  
(OR EQUIVALENT) THEN OFFER FOR RECYCLING OR RECONDITIONING OR  
PUNCTURE AND DISPOSE IN SANITARY LANDFILL OR BY OTHER PROCEDURES  
APPROVED BY STATE AND LOCAL REGULATIONS.

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assume responsibility for the suitability of this information to their  
particular situation.

SPARTAN CHEMICAL CO INC -- FAST & EASY -- 7930-01-300-0811

=====  
Product Identification  
=====

Product ID:FAST & EASY  
MSDS Date:02/25/1987  
FSC:7930  
NIIN:01-300-0811  
MSDS Number: BPMMR  
=== Responsible Party ===  
Company Name:SPARTAN CHEMICAL CO INC  
Address:110 N WESTWOOD AVE  
City:TOLEDO  
State:OH  
ZIP:43607-3340  
Country:US  
Info Phone Num:419-531-5551  
Emergency Phone Num:419-531-5551  
CAGE:23212

=== Contractor Identification ===  
Company Name:SPARTAN CHEMICAL CO INC. IPG INDUSTRIAL PRODUCTS GROUP  
Address:110 N WESTWOOD AVE  
Box:City:TOLEDO  
State:OH  
ZIP:43607  
Country:US  
Phone:800-537-8990/419-531-5551  
CAGE:23212

=====  
Composition/Information on Ingredients  
=====

Ingred Name:ISOPROPYL ALCOHOL; (ISOPROPANOL) (SARA III)  
CAS:67-63-0  
RTECS #:NT8050000  
Fraction by Wt: 5-10%  
OSHA PEL:400 PPM;500 STEL  
ACGIH TLV:400 PPM;500 STEL

Ingred Name:ETHANOL, 2-BUTOXY-; (ETHYLENE GLYCOL MONOBUTYL ETHER)  
CAS:111-76-2  
RTECS #:KJ8575000  
Fraction by Wt: 1-5%  
OSHA PEL:S, 50 PPM

ACGIH TLV:S, 25 PPM; 9293

=====  
Hazards Identification  
=====

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:ANIMAL STUDIES CLEARLY DEMONSTRATED DOSE-RELATED ADVERSE EFFECTS ON CNS, HEMATOPOIETIC TISSUE, BLOOD, KIDNEY AND LIVER, ASSOCIATED WITH ADMINISTRATION OF ETHYLENE GLYCOL MONOBUTYL ETHER (EGBE). (EXTRA CTED FROM DHHS (NIOSH) PUBLICATION NO. 90-118) . MAY CAUSE SKIN AND EYE IRRITATION. AVOID (EFTS OF OVEREXPOS)

Explanation of Carcinogenicity:NOT RELEVANT

Effects of Overexposure:HLTH HAZ:PROLONGED SKIN CONTACT AND INHALATION OF VAPORS OR MIST. BUTOXYETHANOL IS ABSORBED THROUGH SKIN WHICH MAY AFFECT LIVER, KIDNEY, LYMPH AND BLOOD SYSTEMS. INHALATION MAY IRRITATE THROAT AND RES PIRATORY SYSTEM.

Medical Cond Aggravated by Exposure:NONE KNOWN

=====  
First Aid Measures  
=====

First Aid:INGEST:DRINK LARGE AMOUNTS OF WATER. EYES/SKIN:FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. IF IRRITATION PERSISTS, SEEK MEDICAL ATTENTION. INHAL:REMOVE FROM EXPOSURE. SUPPORT BREATHING (GIVE O \*2/ARTIFICIAL RESPIRATION) .

=====  
Fire Fighting Measures  
=====

Flash Point Method:COC

Flash Point:143F,62C

Extinguishing Media:WATER

Fire Fighting Procedures:WEAR NIOSH/MSHA APPROVED SCBA AND FULL PROTECTIVE EQUIPMENT .

Unusual Fire/Explosion Hazard:NONE KNOWN

=====  
Accidental Release Measures  
=====

Spill Release Procedures:FLUSH WITH COPIOUS AMOUNTS OF WATER INTO SANITARY SEWER SYSTEMS.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

=====  
Handling and Storage  
=====

Handling and Storage Precautions:KEEP AWAY FROM HEAT AND FLAME.

Other Precautions:NONE

=====  
Exposure Controls/Personal Protection  
=====

Respiratory Protection:NONE REQUIRED. USE NIOSH/MSHA APPROVED  
RESPIRATOR APPROPRIATE FOR EXPOSURE OF CONCERN .

Ventilation:GOOD GENERAL VENT SHOULD BE SUFFICIENT FOR MOST CONDITIONS.  
LOC EXHAUST VENT MAY BE NECESSARY FOR SOME OPERATIONS.

Protective Gloves:RUBBER GLOVES.

Eye Protection:CHEMICAL WORKERS GOGGLES .

Other Protective Equipment:NONE

Work Hygienic Practices:NONE SPECIFIED BY MANUFACTURER.

Supplemental Safety and Health  
NONE SPECIFIED BY MANUFACTURER.

=====  
Physical/Chemical Properties  
=====

Boiling Pt:B.P. Text:200F,93C

Spec Gravity:0.99 (H\*20 = 1)

pH:10-11

Evaporation Rate & Reference:<1 (BUTYL ACETATE = 1)

Solubility in Water:COMPLETE

Appearance and Odor:CLEAR, YELLOW LIQUID; AMMONICAL, LEMON SCENTED  
ODOR.

=====  
Stability and Reactivity Data  
=====

Stability Indicator/Materials to Avoid:YES

NONE KNOWN

Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER.

Hazardous Decomposition Products:NONE

=====  
Disposal Considerations  
=====

Waste Disposal Methods:FLUSH WITH COPIOUS AMOUNTS OF WATER INTO  
SANITARY SEWER SYSTEM. DISPOSAL MUST BE IN ACCORDANCE WITH LOCAL,  
STATE AND FEDERAL REGULATIONS .

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SPARTAN CHEMICAL CO INC -- FOAMY Q & A -- 7930-00N033089

=====  
Product Identification  
=====

Product ID:FOAMY Q & A  
MSDS Date:05/18/1987  
FSC:7930  
NIIN:00N033089  
MSDS Number: BPQCS  
=== Responsible Party ===  
Company Name:SPARTAN CHEMICAL CO INC  
Address:110 NORTH WESTWOOD AVE  
City:TOLEDO  
State:OH  
ZIP:43607  
Country:US  
Info Phone Num:419-531-5551  
Emergency Phone Num:419-531-5551  
Preparer's Name:THOMAS J. MITCHELL  
CAGE:23212

==== Contractor Identification ===  
Company Name:SPARTAN CHEMICAL CO INC. IPG INDUSTRIAL PRODUCTS GROUP  
Address:110 N WESTWOOD AVE  
Box:City:TOLEDO  
State:OH  
ZIP:43607  
Country:US  
Phone:800-537-8990/419-531-5551  
CAGE:23212

=====  
Composition/Information on Ingredients  
=====

Ingred Name:PHOSPHORIC ACID (SARA III)  
CAS:7664-38-2  
RTECS #:TB6300000  
Fraction by Wt: 10-15%  
OSHA PEL:1 MG/M3;3 STEL  
ACGIH TLV:1 MG/M3;3 STEL  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

Ingred Name:ETHANOL, 2-BUTOXY-; (2-BUTOXY-1-ETHANOL)  
CAS:111-76-2



RTECS #:KJ8575000

Fraction by Wt: < 5%

OSHA PEL:S, 50 PPM

ACGIH TLV:S, 25 PPM; 9293

Ingred Name:GLYCOLIC ACID; (HYDROXYACETIC ACID)

CAS:79-14-1

RTECS #:MC5250000

Fraction by Wt: < 5%

=====  
Hazards Identification  
=====

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:MAY BE FATAL IF SWALLOWED. PROD CAUSES SKIN & EYE DMG. INHAL OF MIST MAY CAUSE RESP IRRIT. BUTOXYETHANOL IS ABSORBED THROUGH THE SKIN WHICH MAY AFFECT THE LIVER, KIDNEYS, LYMPH & BLOOD SYSTEMS; INHALA TION MAY IRRITATE THROAT & RESPIRATORY SYSTEM. ANIMAL STUDIES HAVE CLEARLY DEMONSTRATED DOSE-RELATED (EFTS OF OVEREXP)

Explanation of Carcinogenicity:NOT RELEVANT

Effects of Overexposure:HLTH HAZ: ADVERSE EFFECTS ON THE CNS, THE HEMATOPOIETIC TISSUE, THE BLOOD, THE KIDNEYS, & THE LIVER ASSOCIATED WITH THE ADMINISTRATION OF ETHYLENE GLYCOL MONOBUTYL ETHER (EGBE). (EXTRACTED FROM DHHS ( NIOSH) PUBLICATION NO. 90-118).

Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

=====  
First Aid Measures  
=====

First Aid:EYE:IMMED WASH EYES W/H2O FOR AT LEAST 15 MIN. GET PROMPT MED ATTN. INGEST: DO NOT INDUCE VOMITING. DRINK LARGE QTYS OF WATER OR MILK. CALL A PHYSICIAN, HOSPITAL EMERGENCY ROOM OR POISON CONTROL CENTE R. SKIN: IMMED WASH AFFECTED AREA WITH SOAP AND WATER. IF IRRITATION CONTINUES, GET MED ATTN. INHAL: IN CASE OF RESP IRRIT, MOVE PERSON TO FRESH AIR. IF IRRIT CONTINUES, GET MED ATTN.

=====  
Fire Fighting Measures  
=====

Flash Point Method:COC

Flash Point:NONE

Extinguishing Media:EXTINGUISHING MEDIA SUITABLE FOR SURROUNDING FIRE .

Fire Fighting Procedures:WEAR NIOSH/MSHA APPROVED SCBA AND FULL PROTECTIVE EQUIPMENT .

Unusual Fire/Explosion Hazard:CONTACT WITH METAL MAY PRODUCE FLAMMABLE HYDROGEN GAS.

===== Accidental Release Measures =====

Spill Release Procedures:SMALL QUANTITIES MAY BE FLUSHED INTO SANITARY SEWER. LARGER QUANTITIES SHOULD BE PICKED UP WITH ABSORBENT MATERIAL MADE FOR ACID CONTAMINANT AND DISPOSED OF IN ACCORDANCE WITH STATE AND LOCAL REGULATIONS.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

===== Handling and Storage =====

Handling and Storage Precautions:KEEP FROM FREEZING. DO NOT GET IN EYES, ON SKIN OR ON CLOTHING. DO NOT INHALE MIST.

Other Precautions:NONE

===== Exposure Controls/Personal Protection =====

Respiratory Protection:NIOSH/MSHA APPROVED RESPIRATOR APPROPRIATE FOR EXPOSURE OF CONCERN .

Ventilation:GOOD GENERAL VENT SHOULD BE SUFFICIENT FOR MOST CONDITIONS. LOCAL EXHAUST VENT MAY BE NECESSARY FOR SOME OPERATIONS.

Protective Gloves:ACID RESISTANT GLOVES.

Eye Protection:CHEM WORK GOGG/FULL LENGTH FSHLD .

Other Protective Equipment:UNDER CERTAIN CONDITIONS ACID RESISTANT APRONS AND BOOTS ARE SUGGESTED. EMERGENCY EYEWASH AND DELUGE SHOWER

Work Hygienic Practices:NONE SPECIFIED BY MANUFACTURER.

Supplemental Safety and Health  
NONE SPECIFIED BY MANUFACTURER.

===== Physical/Chemical Properties =====

HCC:C1

Boiling Pt:B.P. Text:>200F,>93C

Vapor Pres:33 @ 75F

Spec Gravity:1.09 (H2O=1)

pH:< 2

Evaporation Rate & Reference:< 1 (BUTYL ACETATE=1)

Solubility in Water:COMPLETE

Appearance and Odor: PURPLE LIQUID, PINEY FRAGRANCE

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid: YES

STRONG ALKALIS, BLEACH, AMMONIA, CYANIDES.

Stability Condition to Avoid: NONE SPECIFIED BY MANUFACTURER.

Hazardous Decomposition Products: HEATING TO DECOMPOSITION YIELDS TOXIC FUMES OF PHOSPHORUS PENTOXIDE.

===== Disposal Considerations =====

Waste Disposal Methods: CONTAINER DISPOSAL: TRIPLE RINSE (OR EQUIVALENT) THEN OFFER FOR RECYCLING OR RECONDITIONING, OR PUNCTURE AND DISPOSE OF IN A SANITARY LANDFILL, OR BY OTHER PROCEDURES APPROVED BY STATE AND LOCAL AUTHORITIES.

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SPARTAN CHEMICAL CO INC -- GERMICIDAL BOWL CLEANSE -- 7930-01-104-1222

=====  
Product Identification  
=====

Product ID:GERMICIDAL BOWL CLEANSE  
MSDS Date:07/13/1993  
FSC:7930  
NIIN:01-104-1222  
MSDS Number: CCKBT  
=== Responsible Party ===  
Company Name:SPARTAN CHEMICAL CO INC  
Address:110 N WESTWOOD AVE  
City:TOLEDO  
State:OH  
ZIP:43607-3340  
Country:US  
Info Phone Num:419-531-5551  
Emergency Phone Num:419-531-5551  
Preparer's Name:THOMAS J. MITCHELL  
CAGE:23212

==== Contractor Identification ===  
Company Name:SPARTAN CHEMICAL CO INC. IPG INDUSTRIAL PRODUCTS GROUP  
Address:110 N WESTWOOD AVE  
Box:City:TOLEDO  
State:OH  
ZIP:43607  
Country:US  
Phone:800-537-8990/419-531-5551  
CAGE:23212

=====  
Composition/Information on Ingredients  
=====

Ingred Name:HYDROGEN CHLORIDE (HYDROCHLORIC ACID) (SARA 302/313)  
(CERCLA)  
CAS:7647-01-0  
RTECS #:MW4025000  
Fraction by Wt: 23.0%  
Other REC Limits:CEILING 7 MG/M3  
OSHA PEL:NOT EST.  
ACGIH TLV:NOT EST.  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

=====  
===== Hazards Identification =====

LD50 LC50 Mixture:TLV = 5 PPM

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:AVOID BREATHING FUMES. PRODUCT  
CORROSIVE TO SKIN, EYES, RESPIRATORY TRACT. HARMFUL OR FATAL IF  
SWALLOWED.

=====  
===== First Aid Measures =====

First Aid:EYES: WASH W/WATER 15 MINUTES. REMOVE CONTACTS. GET PROMPT  
MEDICAL AID. SKIN: WIPE OFF ACID GENTLY & IMMEDIATELY FLOOD SURFACE  
W/WATER USING SOAP FREELY. COVER W/MOIST MAGNESIA OR BAKING SODA.  
INGESTI ON: CALL DR IMMEDIATELY. DRINK TEASPOONOR MORE MAGNESIA,  
CHALK, PIECES OF SOAP SOFTENED W/WATER/MILK/RAW EGG WHITE. CALL DR  
IMMEDIATELY.

=====  
===== Fire Fighting Measures =====

Flash Point:NONE

Lower Limits:NA

Upper Limits:NA

Extinguishing Media:NA

Fire Fighting Procedures:NONE

Unusual Fire/Explosion Hazard:NONE

=====  
===== Accidental Release Measures =====

Spill Release Procedures:SMALL AMOUNTS MAY BE FLUSHED INTO SANITARY  
SEWER. LARGE AMOUNTS SHOULD BE PICKED UP W/ABSORBENT. MADE FOR ACID  
CONTAMINANT & DISPOSAL OF IN ACCORDANCE W/STATE, LOCAL REGULATIONS.

=====  
===== Handling and Storage =====

Handling and Storage Precautions:ADD MATERIAL ONLY TO WATER. MAY CAUSE  
FIRE OR EXPLOSION IF MIXED W/OTHER CHEMICALS.

Other Precautions:NONE

=====  
===== Exposure Controls/Personal Protection =====

Respiratory Protection:NOT REQUIRED

Ventilation:GOOD GENERAL VENTILATION SHOULD BE SUFFICIENT FOR MOST

CONDITIONS. LOCAL EXHAUST MAY BE NECESSARY FOR SOME OPERATIONS.

Protective Gloves:RUBBER OR ACID RESISTANT

Eye Protection:GOGGLES OR FACE SHIELD

Other Protective Equipment:UNDER CERTAIN CONDITIONS, ACID RESISTANT  
APRONS & BOOTS SUGGESTED.

Supplemental Safety and Health

NK

===== Physical/Chemical Properties =====

Boiling Pt:B.P. Text:220F,104C

Vapor Pres:10.0

Spec Gravity:1.114

pH:0-1

Evaporation Rate & Reference:<1.0

Solubility in Water:COMPLETE

Appearance and Odor:MILKY WHITE, HCL ODOR

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

CONCENTRATED ALKALI

Hazardous Decomposition Products:CO, CO2, HCL

===== Disposal Considerations =====

Waste Disposal Methods:CONTAINERS: TRIPPLE RINSE OR EQUIVALENT. THEN  
OFFER FOR RECYCLING OR RECONDITIONING. OR PUNCTURE/DISPOSE OF IN  
SANITARY LANDFILL OR BY OTHER PROCEDURES APPROVED BY STATE/LOCAL  
AUTHORITIES.

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assume responsibility for the suitability of this information to their  
particular situation.

**Section 1: PRODUCT & COMPANY IDENTIFICATION**

Product Name: Simple Green® All-Purpose Cleaner  
Simple Green® Scrubbing Pad  
Additional Name: Simple Green® Concentrated Cleaner/Degreaser/Deodorizer

Manufacturer's Product Code Numbers: \*Please refer to page 4

Company: Sunshine Makers, Inc.  
15922 Pacific Coast Highway  
Huntington Harbour, CA 92649 USA

Telephone: 800-228-0709 • 562-795-6000 Fax: 562-592-3830

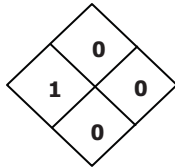
Emergency Phone: Chem-Tel 24-Hour Emergency Service: 800-255-3924

Use of Product: An all purpose cleaner and degreaser used diluted in water for direct, spray and dip tank procedures. Scrubbing pad is used with water for manual scrubbing applications. Both are for cleaning water-safe surfaces.

**Section 2: HAZARDS IDENTIFICATION**

**Emergency Overview: CAUTION. Mild eye irritant.**

**Simple Green® is a dark green liquid with a sassafras odor. Scrubbing Pad is a green fibrous rectangle.**



HMIS Rating:

Health = 1 = slight

Fire = 0

Reactivity, and Special = 0 = minimal

**Eye Contact:** Mild Eye Irritant.

**Skin Contact:** No adverse effects expected under typical use conditions. Prolonged exposure may cause dryness. Under this condition, use of gloves or skin moisturizer after washing may be indicated.

**Ingestion:** May cause stomach or intestinal upset if swallowed (due to deterative properties.)

**Inhalation:** No adverse effects expected under typical use conditions. Adequate ventilation should be present when using Simple Green® over a prolonged period of time. Open windows or ventilate via fan or other air-moving equipment if necessary.

**Carcinogens:** No ingredients are listed by OSHA, IARC, or NTP as known or suspected carcinogens.

**Medical Conditions:** No medical conditions are known to be aggravated by exposure to Simple Green®. Dermal-sensitive users may experience mild but reversible reactions.

**UN Number:** Not Required

**Dangerous Goods Class:** Non-hazardous

**Section 3: COMPOSITION/INFORMATION ON INGREDIENTS**

The only ingredient of Simple Green® with established exposure limits is undiluted 2-butoxyethanol (<4%) (Butyl Cellosolve; CAS No. 111-76-2) [*1% for Scrubbing Pad*]: the ACGIH TLV-TWA is 20 ppm (97 mg/m<sup>3</sup>). Based upon chemical analysis, Simple Green® contains no known EPA priority pollutants, heavy metals or chemicals listed under RCRA, CERCLA, or CWA. Analysis by TCLP (Toxicity Characteristic Leaching Procedure) according to RCRA revealed no toxic organic or inorganic constituents.

All components of Simple Green® are listed on the TSCA Chemical Substance Inventory.

#### Section 4: FIRST AID MEASURES

- Eye Contact:** Reddening may develop. Immediately rinse the eye with large quantities of cool water; continue 10-15 minutes or until the material has been removed; be sure to remove contact lenses, if present, and to lift upper and lower lids during rinsing. Get medical attention if irritation persists.
- Skin Contact:** Minimal effects, if any; rinse skin with water, rinse shoes and launder clothing before reuse. Reversible reddening may occur in some dermal-sensitive users; thoroughly rinse area and get medical attention if reaction persists.
- Swallowing:** Essentially non-toxic. Give several glasses of water to dilute; do not induce vomiting. If stomach upset occurs, consult physician.
- Inhalation:** Non-toxic. Exposure to concentrate may cause mild irritation of nasal passages or throat; remove to fresh air. Get medical attention if irritation persists.

#### Section 5: FIRE FIGHTING MEASURES

**Simple Green® is stable, not flammable, and will not burn. No special procedures required.**

- Flash Point/Auto-Ignition:** Not flammable.      **Extinguishing Media:** Not flammable/non-explosive.  
**Flammability Limits:** Not flammable.      **Special Fire Fighting Procedures:** None required.

#### Section 6: ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Avoid contact with eyes. Do not rub eyes with hands during cleanup. No special precautions for dermal contact are needed. Wash hands thoroughly after cleaning up spill or leak.

**Method for cleaning up:** Recover usable material by convenient method, residual may be removed by wipe or wet mop. If necessary, unrecoverable material may be washed to drain with large quantities of water.

#### Section 7: HANDLING AND STORAGE

No Special precautions are required. **This product is non-hazardous for storage and transport according to the U.S. Department of Transportation Regulations.** Simple Green® requires no special labeling or placarding to meet U.S. Department of Transportation requirements.

**UN Number:** Not Required

**Dangerous Goods Class:** Non-hazardous

#### Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- Exposure Limits:** The Simple Green® formulation presents no health hazards to the user when used according to label directions for its intended purposes. Mild skin and eye irritation is possible (please see Eye contact and Skin contact in section IV.) No special precautionary measures required under normal use conditions.
- Ventilation:** No special ventilation, precautions or respiratory protection is required during normal use. Large-scale use indoors should provide an increased rate of air exchange.
- Human Health Effects or Risks From Exposure:** Adverse effects on human health are not expected from Simple Green®, based on 20 years of use of Simple Green® without reported adverse health incidence in diverse population groups, including extensive use by inmates of U.S. Federal prisons in cleaning operations.
- Eye protection:** Simple Green® is a mild eye irritant; mucous membranes may become irritated by concentrate. Eye protection not generally required. Wash hands after using wipes.
- Skin protection:** Simple Green® is not likely to irritate the skin in the majority of users. Repeated daily application to the skin without rinsing, or continuous contact on the skin may lead to temporary, but reversible, irritation. Rinse completely from skin after contact.



**Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION – continued –**

General hygiene conditions: There are no known hazards associated with this material when used as recommended. The following general hygiene considerations are recognized as common good industrial hygiene practices:

- Avoid breathing vapor or mist.
- Avoid contact with eyes.
- Wash thoroughly after handling and before eating, drinking, or smoking.

**Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance &amp; Odor:</b> Cleaner is a dark green liquid, pad is a fibrous green matrix; both exhibit a sassafras odor.			
<b>Specific Gravity:</b>	1.010 ± 0.010	<b>Vapor Pressure:</b>	18 mm Hg @ 20°C; 23.5 mmHg @ 26°C
<b>Evaporation:</b>	>1 (butyl acetate = 1)	<b>Vapor Density:</b>	1.3 (air = 1)
<b>Water Solubility:</b>	100%	<b>Density:</b>	8.5 lbs/gallon
<b>Boiling Point:</b>	100.6°C (212°F)	<b>pH:</b>	9.5 ± 0.3
<b>Ash Content:</b>	At 600°F: 1.86% by weight	<b>Nutrient Content:</b>	
<b>Freezing Point:</b>	Approx -9 °C (16 °F) <i>If product freezes, it will reconstitute without loss of efficacy when brought back to room temperature and agitated.</i>	Phosphorus: 0.3% by formula Nitrogen <1.0% by weight (fusion and qualitative test for ammonia) Sulfur: 0.6% by weight (barium chloride precipitation method)	
<b>VOC Composite Partial Pressure:</b> 0.006 mmHg @ 20°C			
<b>Volatile Organic Compounds (VOCs):</b> Cleaner meets CARB & BAAQMD regulations. Cleaner must be diluted 1:1 with water to Meet SCAQMD Rule 1171 & Rule 1122 VOC requirements for solvent cleaning operations. [ <i>Scrubber VOCs = 3.3% prior to dilution w/water</i> ]			
CARB Method 310	3.8%		
SCAQMD Method 313	2.8%		

**Section 10: STABILITY AND REACTIVITY**

Stability: Stable  
 Materials to Avoid: None known  
 Hazardous Decomposition Products: None expected

**Section 11: TOXICOLOGICAL INFORMATION**

Toxicology information is based on chemical profile of ingredients and extrapolation of data from similar formulas.

Acute Toxicity: Oral LD<sub>50</sub> (rat) >5 g/kg body weight\* *\*Calculation from OECD series on testing and assessment number 33, Chapter 3.2*  
 Dermal LD<sub>50</sub> (rabbit) >2 g/kg body weight

Eye Irritation: Moderate/Mild reversible eye irritation may occur based on relevant laboratory studies. This potential is reduced by immediate rinsing of eyes in case of eye contact.

Dermal Irritation: Mild, reversible skin irritation may occur based on relevant laboratory studies. A 6-hour exposure to human skin under a patch did not produce irritation

Repeat Exposure Via Skin Contact: Based on relevant laboratory studies, no toxic effects are expected to be associated with daily skin exposures (with up to 2 g/kg/day tested for 13 weeks on rabbits). Skin irritation may, however, occur with repeated or prolonged exposures.

Reproductive Effects Assessment: Based on relevant laboratory studies (CD-1 mouse 18-week fertility assessment continuous breeding), no adverse effects on reproduction, fertility, or health of offspring are expected.

**Section 12: ECOLOGICAL INFORMATION**

**Hazard to wild animals & aquatic organisms:** Low, based on toxicological profile.

**Biodegradability:** Readily biodegradable based on biodegradation profile, PRO/FT CBT-AC 014-7 “Ready Biodegradability: Closed Bottle Test” OECD, and OECD 302B laboratory tests

**Environmental Toxicity Information:** It is important not to allow the runoff from cleaning into closed systems such as decorative ponds. Always protect closed systems with tarps or dikes if necessary.

**Section 13: DISPOSAL CONSIDERATIONS**

Dispose of in accordance with all applicable local, state and federal laws. Dispose of used or unused product, and empty containers in accordance with the local, State, Provincial, and Federal regulations for your location. Never dispose of used degreasing rinsates into lakes, streams, and open bodies of water or storm drains.

**Section 14: TRANSPORT INFORMATION**

This product is non-hazardous for transport according to the U.S. Department of Transportation Services

UN Number: Not required

Dangerous Goods Class: Non-hazardous

**Section 15: REGULATORY INFORMATION**

\*Reportable components:

All components are listed on: EINECS and TSCA Inventory

No components listed under: Clean Air Act Section 112

SARA: This material contains 2-Butoxyethanol, < 4%, (CAS# 111-76-2) which is subject to the reporting requirements of Section 313 of SARA Title III and 49 CFR Part 373.

RCRA Status: Not a hazardous waste.

CERCLA Status: No components listed

TSCA TRI Reporting: Not required / Not listed

CA PROP. 65 Status: No components listed

**Section 16: OTHER INFORMATION**

Questions about the information found on this MSDS should be directed to:  
SUNSHINE MAKERS, INC. – TECHNICAL DEPARTMENT  
15922 Pacific Coast Hwy. Huntington Harbour, CA 92649

Phone: 800/228-0709 [8am-5pm Pacific time, Mon-Fri]

Fax: 562/592-3830

Email: [infoweb@simplegreen.com](mailto:infoweb@simplegreen.com)

**National Stock Numbers & Industrial Part Numbers:**

Simple Green	Part Number	NSN	Size
	13012	7930-01-342-5315	24 oz spray (12/case)
	13005	7930-01-306-8369	1 Gallon (6/case)
	13006	7930-01-342-5316	5 Gallon
	13016	7930-01-342-5317	15 Gallon
	13008	7930-01-342-4145	55 Gallon
Scrubbing Pad	Part Number	NSN	Size
	10224	7930-01-346-9148	Each (24/case)

**Retail Numbers:**

Part Number	Size
13002	16 oz Trigger (12/case)
13005	1 Gallon (6/case)
13013	24 oz Trigger (12/case)
13014	67 oz / 2 L (6/case)
13033	32 oz Trigger (12/case)

\* part number is for both industrial and retail

\*\*International Part Numbers May Differ.

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CHEMICAL PACKAGING CORP -- CITRUS ALL PURPOSE CLEANER, 488 -- 6850-00N047337

=====  
Product Identification  
=====

Product ID:CITRUS ALL PURPOSE CLEANER, 488

MSDS Date:11/14/1988

FSC:6850

NIIN:00N047337

MSDS Number: BSKNX

=== Responsible Party ===

Company Name:CHEMICAL PACKAGING CORP

Box:9947

City:FT LAUDERDALE

State:FL

ZIP:33310

Country:US

Info Phone Num:305-974-5440

Emergency Phone Num:305-974-5440

CAGE:57040

=== Contractor Identification ===

Company Name:CHEMICAL PACKAGING CORP

Address:2700 SW 14 ST

Box:City:POMPANO BEACH

State:FL

ZIP:33069-4322

Country:US

Phone:305-974-5440

CAGE:57040

=====  
Composition/Information on Ingredients  
=====

Ingred Name:SILICIC ACID (H\*2SIO\*3), DISODIUM SALT; (SODIUM  
METASILICATE)

CAS:6834-92-0

RTECS #:VV9275000

OSHA PEL:N/K

ACGIH TLV:N/K

Ingred Name:PROPANE

CAS:74-98-6

RTECS #:TX2275000

OSHA PEL:1000 PPM

ACGIH TLV:SIMPLE ASPHYXIANANT

Ingred Name: BUTANE  
CAS: 106-97-8  
RTECS #: EJ4200000  
OSHA PEL: 800 PPM  
ACGIH TLV: 800 PPM

Ingred Name: CYCLOHEXENE, 1-METHYL-4-(1-METHYLETHENYL)-, (R)-; (CITRUS TERPENE)  
CAS: 5989-27-5  
RTECS #: GW6360000  
OSHA PEL: N/K  
ACGIH TLV: N/K

=====  
Hazards Identification  
=====

LD50 LC50 Mixture: NONE SPECIFIED BY MANUFACTURER.  
Routes of Entry: Inhalation: YES Skin: NO Ingestion: NO  
Reports of Carcinogenicity: NTP: NO IARC: NO OSHA: NO  
Health Hazards Acute and Chronic: ACUTE/CHRONIC: PRODUCT EXISTS AS A FOAM. INHALATION OF VAPS ARE AN UNLIKELY RTE OF EXPOS. NO HARMFUL EFTS KNOWN FROM AVAIL INFO. SKIN CONT/ABSORP: NO EVIDENCE OF ADVERSE EFT FROM AVAIL INFO. PRLNGD/RP TD CONT MAY CAUSE IRRIT. INGEST: CAN CAUSE GI IRRIT, NAUS, VOMIT & DIARR. ASPIR OF MATL INTO LUNGS (EFTS OF OVEREXP)  
Explanation of Carcinogenicity: NOT RELEVANT  
Effects of Overexposure: HLTH HAZ: CAN CAUSE CHEM PNEUM. EYES: CAN CAUSE SEV IRRIT, RED, TEARING AND BLURRED VISION.  
Medical Cond Aggravated by Exposure: NONE SPECIFIED BY MANUFACTURER.

=====  
First Aid Measures  
=====

First Aid: EYES: FLUSH W/WATER FOR AT LEAST 15 MINUTES, LIFTING UPPER AND LOWER LIDS. GET MED ATTN. SKIN: WASH EXPOSED AREAS W/SOAP & WATER. INHAL: UNLIKELY RTE OF EXPOS. TREAT FOR STRANGULATION. INGEST: DILUTE W/WATER. DO NOT INDUCE VOMIT. GET MED ATTN.

=====  
Fire Fighting Measures  
=====

Flash Point Method: TOC  
Flash Point: >150F, >66C  
Extinguishing Media: FOAM, DRY CHEMICAL, CARBON DIOXIDE.  
Fire Fighting Procedures: NIOSH/MSHA APPRVD SCBA & FULL PROTECTIVE

EQUIPMENT . KEEP CONTRS COOL. USE EQUIP/SHIELDING REQD TO PROTECT PERS AGAINST BURST, RUPTURIN/VENTING CONTRS.

Unusual Fire/Explosion Hazard:AT ELEVATED TEMPERATURES (ABOVE 120F) CONTAINERS MAY VENT RUPTURE OR BURST.

===== Accidental Release Measures =====

Spill Release Procedures:CLEAN UP AREA BY MOPPING OR WITH ABSORBENT MATERIALS AND PLACE IN CLOSED CONTAINERS FOR DISPOSAL. CONTACT FEDERAL, STATE OR LOCAL AUTHORITIES FOR APPROVED DISPOSAL PROCEDURES.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

===== Handling and Storage =====

Handling and Storage Precautions:DO NOT STORE AT TEMPERATURES ABOVE 120F.

Other Precautions:PLEASE READ AND FOLLOW DIRECTIONS ON PRODUCT LABEL. THEY ARE YOUR BEST GUIDE TO USING THIS PRODUCT IN THE MOST EFFECTIVE WAY, AND THEY ALSO GIVE NECESSARY SAFETY PRECAUTIONS TO PROTECT YOUR HEALTH.

===== Exposure Controls/Personal Protection =====

Respiratory Protection:UNDER NORMAL CONDITIONS, NO RESPIRATORY PROTECTION IS REQUIRED. USE NIOSH/MSHA APPROVED RESPIRATOR APPROPRIATE FOR EXPOSURE OF CONCERN .

Ventilation:NORMAL.

Protective Gloves:IMPERVIOUS GLOVES .

Eye Protection:ANSI APPROVED CHEMICAL WORKERS (SUPDAT)

Other Protective Equipment:NONE SPECIFIED BY MANUFACTURER.

Work Hygienic Practices:DON'T EAT DRINK/SMOKE IN WORK AREA. WASH HANDS BEFORE EATING.

Supplemental Safety and Health

NONE SPECIFIED BY MANUFACTURER. EYE PROT: GOGGLES AND FULL LENGTH FACESHIELD .

===== Physical/Chemical Properties =====

HCC:V3

Vapor Pres:63PSIG@75F

Spec Gravity:0.990 (H\*20=1)

Solubility in Water:COMPLETE

Appearance and Odor:WHITE FOAM WITH CITRUS ODOR  
Percent Volatiles by Volume:93

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES  
STRONG OXIDIZING AGENTS, STRONG ACIDS/BASES, SELECTED AMINES.  
Stability Condition to Avoid:DO NOT EXPOSE TO TEMPERATURES ABOVE 120F.  
Hazardous Decomposition Products:THERMAL DECOMPOSITION IN PRESENCE OF  
AIR MAY YIELD CARBON MONOXIDE &/OR CARBON DIOXIDE.

===== Disposal Considerations =====

Waste Disposal Methods:WHEN USED PROPERLY AEOROSL PROD DO NOT GENERATE  
HAZ WASTE. EMPTY DE-PRESSURIZED CONTAINERS CAN NOT BE USED & SHOULD  
BE WRAPPED & PUT IN A PERMITTED WASTE MANAGEMENT FACILITY. CONSULT  
FEDERAL, STATE AN D LOCAL DISP AUTH FOR APPROVED PROCEDURES.

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assume responsibility for the suitability of this information to their  
particular situation.

FORMICA EVENDALE/FORMICA CORPORATION -- FORMICA(LAMINATE,METAL LAMINATE,TAMBOUR,SEE SUPPL DATA),949 -- 9330-00-784-0224

=====  
Product Identification  
=====

Product ID:FORMICA(LAMINATE,METAL LAMINATE,TAMBOUR,SEE SUPPL DATA),949

MSDS Date:11/01/1993

FSC:9330

NIIN:00-784-0224

MSDS Number: BSHTS

=== Responsible Party ===

Company Name:FORMICA EVENDALE/FORMICA CORPORATION

Address:10155 READING ROAD

Box:415729

City:CINCINNATI

State:OH

ZIP:45241-5729

Country:US

Info Phone Num:513-786-3400

Emergency Phone Num:513-786-3400

Preparer's Name:MICHAEL B. WILLIAMS

CAGE:L0979

=== Contractor Identification ===

Company Name:FORMICA CORP EVENDALE

Address:10155 READING ROAD

Box:City:CINCINNATI

State:OH

ZIP:45241

Country:US

Phone:513-786-3400

CAGE:80251

Company Name:FORMICA EVENDALE/FORMICA CORPORATION

Address:10155 READING ROAD

Box:415729

City:CINCINNATI

State:OH

ZIP:45241-5729

Country:US

Phone:513-786-3400

CAGE:L0979

=====  
Composition/Information on Ingredients  
=====

Ingred Name:NON-HAZARDOUS INGREDIENTS

Fraction by Wt: 100%

Other REC Limits:NONE RECOMMENDED

=====  
===== Hazards Identification =====

LD50 LC50 Mixture:LD50 (ORAL RAT) IS NOT RELEVANT.

Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO

Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:YES

Health Hazards Acute and Chronic:ACUTE- THIS PRODUCT IS NOT HAZARDOUS IN NORMAL USE. DURING FABRICATION OPERATIONS, DUSTS & MINUTE AMOUNTS OF FORMALDEHYDE ARE GENERATED WHICH CAN CAUSE IRRITATION OF EYES, SKIN, RESPIRATORY & GI TRACT S. FORMALDEHYDE CONCENTARATION IS EXPECTED TO BE TOO LOW TO CAUSE HEALTH HAZARD. CHRONIC- UNKNOWN. TARGET ORGANS:LUNGS.

Explanation of Carcinogenicity:MAY FORM FORMALDEHYDE [50-00-0] WHICH IS LISTED BY NTP AND IARC AND REGULATED BY OSHA AS A CARCINOGEN.

Effects of Overexposure:EYES, SKIN, GASTROINTESTINAL AND RESPIRATORY TRACTS IRRITATION

Medical Cond Aggravated by Exposure:NONE SHOULD BE EXPECTED WHEN USED AS DESCRIBED BY PRODUCT LITERATURES

=====  
===== First Aid Measures =====

First Aid:GET MEDICAL HELP IF SYMPTOMS PERSIST. INHALATION:REMOVE TO FRESH AIR. EYES:FLUSH WITH WATER FOR 15 MINUTES, HOLDING EYELIDS OPEN. SKIN:WASH WITH SOAP & WATER. INGESTION:DO NOT INDUCE VOMITING. GET MEDICAL ATTENTION.

=====  
===== Fire Fighting Measures =====

Flash Point:NOT RELEVANT

Extinguishing Media:WATER SPRAY, CARBON DIOXIDE, FOAM OR DRY CHEMICAL. USE WATER SPRAY TO COOL FIRE EXPOSED MATERIALS.

Fire Fighting Procedures:WEAR PROTECTIVE CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS, OPERATED IN POSITIVE PRESSURE MODE.

Unusual Fire/Explosion Hazard:MACHINING, SAWING AND/OR SANDING PRODUCES A CLASS ST-1 DUST. FOLLOW SAFETY PRECAUTIONS TO PREVENT THIS OR ANY CLASS ST-1 FROM PRESENTING AN EXPLOSION HAZARD.

=====  
===== Accidental Release Measures =====



Spill Release Procedures:SWEEP UP OR PICK UP SCRAP MATERIAL AND PLACE IN APPROPRIATE CONTAINER FOR WASTE DISPOSAL. WASH CONTAMINATED CLOTHING BEFORE REUSE. VENTILATE AREA AND WASH SPILL SITE. AVOID GENERATING DUSTS.

Neutralizing Agent:NOT RELEVANT

=====  
Handling and Storage  
=====

Handling and Storage Precautions:LAMINATES MAY HAVE SHARP EDGES. WEAR SAFETY GLASSES AND GLOVES WHEN HANDLING MATERIAL.

Other Precautions:DO NOT RAISE DUST. AVOID CONTACT WITH EYES. AVOID PROLONGED INHALATION OF EXCESSIVE DUST. WASH THOROUGHLY AFTER HANDLING MATERIAL.

=====  
Exposure Controls/Personal Protection  
=====

Respiratory Protection:NONE NORMALLY REQUIRED.

Ventilation:ADEQUATE

Protective Gloves:RUBBER

Eye Protection:SAFETY GLASSES

Other Protective Equipment:EYE WASH STATION

Work Hygienic Practices:OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. WEAR GLOVES, SAFETY GLASSES, SAFETY SHOES.

Supplemental Safety and Health

=====  
Physical/Chemical Properties  
=====

HCC:N1

NRC/State Lic Num:NOT RELEVANT

Melt/Freeze Pt:M.P/F.P Text:DECOMPOSES

Decomp Temp:Decomp Text:>400F,>204C

Spec Gravity:1.35

Evaporation Rate & Reference:NOT RELEVANT

Solubility in Water:NONE IN NORMAL USE

Appearance and Odor:THIN, RIGID SHEET WITH COLORED, DECORATIVE/METALLIC SURFACE - NO ODOR

=====  
Stability and Reactivity Data  
=====

Stability Indicator/Materials to Avoid:YES

ORGANIC SOLVENTS, STRONG ACIDS OR ALKALINE SOLUTIONS

Stability Condition to Avoid:CREATION OF DUSTS

Hazardous Decomposition Products:MAY FORM CARBON DIOXIDE, CARBON

MONOXIDE, AMMONIA, FORMALDEHYDE AND/OR OXIDES OF NITROGEN.

===== Disposal Considerations =====

Waste Disposal Methods: SCRAP LAMINATE AND SANDER DUST MAY BE BURNED FOR ENERGY RECOVERY OR DISPOSED OF IN AN APPROVED SANITARY LANDFILL. THIS PRODUCT IS NOT A HAZARDOUS WASTE UNDER RCRA. HOWEVER, CONSULT LOCAL, STATE AND FEDERAL REGULATIONS.

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UNITED STATES GYPSUM COMPANY -- SHEETROCK BRAND GYPSUM PANELS -- 5640-00-235-0255

=====  
Product Identification  
=====

Product ID:SHEETROCK BRAND GYPSUM PANELS  
MSDS Date:03/02/1998  
FSC:5640  
NIIN:00-235-0255  
MSDS Number: CGWFL  
=== Responsible Party ===  
Company Name:UNITED STATES GYPSUM COMPANY  
Address:125 S FRANKLIN ST DEPT 147-4  
City:CHICAGO  
State:IL  
ZIP:60606-4678  
Country:US  
Info Phone Num:312-606-4542  
Emergency Phone Num:312-606-4542  
CAGE:61357

=== Contractor Identification ===  
Company Name:UNITED STATES GYPSUM CO  
Address:101 S WACKER DR  
Box:City:CHICAGO  
State:IL  
ZIP:60606-4302  
Country:US  
Phone:312-606-4000 (EMERG /4542)  
CAGE:61357

=====  
Composition/Information on Ingredients  
=====

Ingred Name:GYPSUM  
CAS:13397-24-5  
RTECS #:MG2360000  
Fraction by Wt: >85%  
Other REC Limits:5 MG/CUM RESP DUST  
ACGIH TLV:10 MG/CUM

Ingred Name:GYPSUM (CALCIUM SULFATE)  
CAS:10101-41-4  
RTECS #:EW4150000  
ACGIH TLV:10 MG/CUM

Ingred Name:CELLULOSE  
CAS:9004-34-6  
RTECS #:FJ5691460  
Fraction by Wt: <15%  
OSHA PEL:5 MG/CUM  
ACGIH TLV:10 MG/CUM (DUST)

Ingred Name:STARCH; VANCIDE MZ-96  
CAS:9005-25-8  
RTECS #:GM5090000  
Fraction by Wt: <3%  
Other REC Limits:NUISANCE PARTICULATE  
ACGIH TLV:10 MG/CUM TOTAL DUST

Ingred Name:CRYSTALLINE-QUARTZ SILICA, SILICA DUST (SUSPECTED HUMAN  
CARCINOGEN BY IARC-GROUP 2A; SUSPECTED CARCINOGEN NTP) \*98-1\*  
CAS:14808-60-7  
RTECS #:VV7330000  
Fraction by Wt: <5%  
Other REC Limits:0.05 MG/CUM (NIOSH)  
OSHA PEL:10 MG/CUM %RESP SIO2  
ACGIH TLV:0.1 MG/CUM RESP DUST

=====  
Hazards Identification  
=====

Routes of Entry: Inhalation:YES Skin:NO Ingestion:YES  
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO  
Health Hazards Acute and Chronic:EYES: IRRITATION. SKIN:  
IRRITATION/DERMATITIS. ABSORPTION OF BORIC ACID INTO BLOOD STREAM  
MAY RESULT IN ERYTHEMA. INHALATION: IRRITATE THE NOSE/THROAT/LUNGS  
& UPPER RESPIRATORY TRACT. BORIC ACID MAY B E ABSORBED THROUGH  
MUCOUS MEMBRANE. INGESTION: GI TRACT IRRITATION & CNS EFFECT,  
OBSTRUCTION OF THE GUT. (SEE SUPP)  
Explanation of Carcinogenicity:SEE INGREDIENTS.  
Effects of Overexposure:IRRITATION, DRYNESS, ITCHING, MACULAR RASH,  
COUGHING, SNEEZING, NAUSEA, DIARRHEA, DIZZINESS.  
Medical Cond Aggravated by Exposure:PRE-EXISTING UPPER RESPIRATORY &  
LUNG DISEASE, BRONCHITIS, EMPHYSEMA & ASTHMA.

=====  
First Aid Measures  
=====

First Aid:EYES: FLUSH W/WATER FOR 15 MINS. SKIN: WASH W/MILD SOAP &

WATER. INHALATION: REMOVE TO FRESH AIR. OBTAIN MEDICAL ATTENTION IN ALL CASES.

=====  
Fire Fighting Measures  
=====

Flash Point:NONE

Fire Fighting Procedures:NONE

Unusual Fire/Explosion Hazard:NONCOMBUSTIBLE.

=====  
Accidental Release Measures  
=====

Spill Release Procedures:WEAR APPROPRIATE PROTECTIVE EQUIPMENT. COLLECT & PLACE IN A WASTE CONTAINER FOR DISPOSAL/IF NOT DAMAGED/CONTAMINATED BY FOREIGN MATERIAL, GYPSUM PANELS MAY BE RECLAIMED.

=====  
Handling and Storage  
=====

Handling and Storage Precautions:STORE IN A DRY PLACE. STORE ALL SHEETROCK BRAND GYPSUM PANELS FLAT. PANELS ARE HEAVY & CAN FALL OVER, CAUSING SERIOUS INJURY/DEATH.

Other Precautions:DON'T MOVE UNLESS AUTHORIZED. TAKE NECESSARY PRECAUTIONS & WEAR THE APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT AS NEEDED. AVOID INHALATION OF DUST.

=====  
Exposure Controls/Personal Protection  
=====

Respiratory Protection:WEAR A NIOSH/MSHA APPROVED RESPIRATOR IF TLV IS EXCEEDED.

Ventilation:GENERAL IF NECESSARY. LOCAL EXHAUST TO MEET TLV REQUIREMENTS.

Protective Gloves:RECOMMENDED

Eye Protection:SAFETY GLASSES/GOGGLES

Other Protective Equipment:PROTECTIVE CLOTHING.

Work Hygienic Practices:FOLLOW GOOD SAFETY & INDUSTRIAL HYGIENE PRACTICES DURING HANDLING & INSTALLING OF ALL PRODUCTS & SYSTEMS.

Supplemental Safety and Health

HLTH HZRDS CONT'D: LARGE DOSES OF BORIC ACID ABSORBED INTO BLOOD STREAM MAY RESULT IN ERYTHMEA & CNS EFFECTS AFTER 36-72 HOURS. CRYSTALLINE SILICA CAN RESULT IN LUNG DISEASE/LUNG CANCER.

=====  
Physical/Chemical Properties  
=====

Solubility in Water:0.2%

Appearance and Odor:PAPER COVERED PANEL W/OFF WHITE CORE; LOW ODOR

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

Stability Condition to Avoid:TEMPS >2642F, MOISTURE.

Hazardous Decomposition Products:CALCIUM OXIDE, SULFUR OXIDE.

===== Disposal Considerations =====

Waste Disposal Methods:DISPOSE OF IAW/FEDERAL, STATE & LOCAL REGULATIONS.

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ROCK WOOL MFG CO -- DELTA-MAID GRANULATED MINERAL WOOL INSULATION -- 5640-00N079015

=====  
Product Identification  
=====

Product ID:DELTA-MAID GRANULATED MINERAL WOOL INSULATION

MSDS Date:12/31/1990

FSC:5640

NIIN:00N079015

MSDS Number: CGGTG

=== Responsible Party ===

Company Name:ROCK WOOL MFG CO

Address:203 NORTH 7TH ST

Box:506

City:LEEDS

State:AL

ZIP:35094-0506

Country:US

Info Phone Num:205-699-3132

Emergency Phone Num:205-699-6124

Preparer's Name:WJ BRAYMAN

CAGE:15270

=== Contractor Identification ===

Company Name:ROCK WOOL MFG CO

Address:500 THORTON AVE

Box:506

City:LEEDS

State:AL

ZIP:35094

Country:US

CAGE:15270

=====  
Composition/Information on Ingredients  
=====

Ingred Name:FIBERGLASS (FIBROUS GLASS); (MINERAL WOOL FIBER) %: 97-99.9

CAS:65997-17-3

Fraction by Wt: <99.9%

OSHA PEL:5 MG/M3 RESP DUST

ACGIH TLV:10 MG/M3 (<7MICRONS)

Ingred Name:UREA EXTENDED PHENOL-FORMALDEHYDE RESIN CURED; (PHENOLIC CURED RESIN) %: 0.001-0.9

CAS:25104-55-6

Fraction by Wt: <0.9%  
OSHA PEL:N/K  
ACGIH TLV:N/K

Ingred Name:PETROLEUM HYDROCARBON %: 0.01-0.5  
CAS:50854-94-9  
Fraction by Wt: <0.5%  
OSHA PEL:N/K  
ACGIH TLV:N/K

Ingred Name:SUP DAT: THERE REMAIN MANY QUESTIONS ABOUT EFTS OF OTHER  
CARCIN EXPOS IN WORK PLACE, OTHER JOBS WHICH WORKER (ING 5)  
RTECS #:9999999ZZ

Ingred Name:ING 4: MIGHT HAVE HELD, & CIGARETTE SMOKING.  
RTECS #:9999999ZZ

Ingred Name:HYGIENE PRACTICES: RINSE WASHER AFTER USE.  
RTECS #:9999999ZZ

=====  
===== Hazards Identification =====

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.  
Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO  
Reports of Carcinogenicity:NTP:NO IARC:YES OSHA:NO  
Health Hazards Acute and Chronic:ACUTE: THE RELEASE OF MINERAL FIBERS  
DURING NORM HNDLG MAY CAUSE SHORT TERM IRRIT TO NOSE &/THROAT.  
SKIN: MAY CAUSE TRANSITORY MECH DERM. SKIN ABSORPTION DOES NOT  
OCCUR. EYE: DIRECT CONT WILL CAUSE ME CH IRRIT. INGEST: UNLIKELY TO  
OCCUR. CHRONIC: ABSENCE OF DISEASE IN VAST MAJORITY OF WORKERS  
EXPOSED (EFTS OF OVEREXP)  
Explanation of Carcinogenicity:MINERAL WOOL FIBER: IARC MONOGRAPHS,  
VOLUME 43, PAGE 152, 1988: GROUP 2B.  
Effects of Overexposure:HLTH HAZ: TO MINERAL WOOL FIBER DURING THE LAST  
50 YRS SUGGESTS THAT MINERAL WOOL FIBER PRODS POSE LITTLE, IF ANY,  
HLTH RISK TO HUMANS. HOWEVER, A RECENT RPT OF SLIGHT EXCESS OF  
CANCER IN INSULATION F ACTORY WORKERS WITH 30/MORE YRS SINCE FIRST  
EXPOS TO MINERAL WOOL FIBER MFG ENVIRON MERITS FURTHER STUDY. (SUP  
DAT)  
Medical Cond Aggravated by Exposure:PREEXISTING UPPER RESPIRATORY AND  
LUNG DISEASES MAY BE AGGRAVATED BY DUST. THE PRODUCT IS A  
MECHANICAL IRRITANT FOR SKIN, EYES, THROAT, AND UPPER RESPIRATORY  
SYSTEM.



=====  
First Aid Measures  
=====

First Aid:INHAL: REMOVE FROM EXPOSURE. DRINK WATER TO CLEAR THROAT & BLOW NOSE TO EVACUATE FIBERS. SKIN: FREQUENT WASHING OF SKIN W/WATER TO REMOVE ACCUMULATED FIBERS WILL MINIMIZE IRRIT. IF IRRIT PERSISTS CONS ULT MD. TREAT AS MECHANICAL IRRITANT. EYES: FLUSH W/FLOWING WATER UNTIL IRRITATION STOPS (FOR AT LEAST 15 MIN). IF SYMPTOMS PERSIST, SEEK MEDICAL ATTENTION. INGEST: CALL MD IMMEDIATELY .

=====  
Fire Fighting Measures  
=====

Flash Point:INCOMBUSTIBLE  
Extinguishing Media:WATER, FOAM, DRY CHEMICAL, CARBON DIOXIDE.  
Fire Fighting Procedures:WEAR NIOSH APPROVED SCBA & FULL PROTECTIVE EQUIPMENT .  
Unusual Fire/Explosion Hazard:NO UNUSUAL FIRE AND EXPLOSION HAZARDS. RESIN WILL PYROLYZE AT SUSTAINED TEMPERATURES ABOVE 500F.

=====  
Accidental Release Measures  
=====

Spill Release Procedures:NORMAL CLEAN-UP PROCEDURES. AVOID CREATING DUST.  
Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

=====  
Handling and Storage  
=====

Handling and Storage Precautions:KEEP MATERIALS UNDER COVER, DRY AND MINIMIZE THE GENERATION OF DUST.  
Other Precautions:NONE SPECIFIED BY MANUFACTURER.

=====  
Exposure Controls/Personal Protection  
=====

Respiratory Protection:USE A MASK DESIGNED FOR NUISANCE TYPE DUSTS SUCH AS NIOSH APPROVED 3M MODEL 9900, MODEL 8710, OR ITS EQUIVALENT.  
Ventilation:USE SUFFICIENT NATURAL OR MECHANICAL VENTILATION TO MAINTAIN AIRBORNE DUST CONCENTRATION BELOW TLV.  
Protective Gloves:IMPERVIOUS GLOVES .  
Eye Protection:ANSI APPRVD CHEM WORKERS GOGGLES .  
Other Protective Equipment:ANSI APPROVED EMERGENCY EYEWASH & DELUGE SHOWER . WEAR LONG-SLEEVED, LOOSE-FITTING CLTHG, & HEAD COVERING.  
Work Hygienic Practices:WASH WORK CLOTHES SEPARATELY FROM OTHER CLTHG

TO PVNT POSS MINERAL WOOL FIBER MIGRATION TO OTHER CLOTHES. (ING 6)  
Supplemental Safety and Health  
APPEAR/ODOR: CAST; NO APPRECIABLE ODOR. HAZ DECOMP PROD: NITROGEN,  
CARBON PARTICULATES & WATER. EFTS OF OVEREXP: THIS RPT MUST BE  
CAREFULLY BALANCED AGAINST LGE BODY OF SCIENTIFIC INFO INVOLVING  
HUMAN & ANIMAL STUDIES WHERE NO INCR RISK OF DISEASE IS SUGGESTED.  
IN ALL OF EPIDEMIOLOGY (WORK PLACE) STUDIES, (ING 4)

===== Physical/Chemical Properties =====

Melt/Freeze Pt:M.P/F.P Text:>2000F,>109  
Spec Gravity:VARIABLE  
Solubility in Water:NONE  
Appearance and Odor:LIGHT BROWN W/YELLOWISH CAST TO A MEDIUM  
GREEN-BLACK W/MIXED YELLOWISH (SUP DAT)

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES  
NONE.  
Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER.  
Hazardous Decomposition Products:BINDER (RESIN) BURNS/DECOMPOSES IN A  
FIRE CAUSING ACRID SMOKE. DECOMP PRODS ARE OXIDES OF CARBON, OXIDES  
OF (SUP DAT)

===== Disposal Considerations =====

Waste Disposal Methods:MINERAL WOOL FIBER PRODUCTS ARE GENERALLY  
CLASSIFIED AS A NONHAZARDOUS WASTE & DISPOSAL MAY BE IN A LANDFILL  
FOR NONCRITICAL MATERIALS. LOCAL REGULATIONS SHOULD BE CONSULTED.  
DISPOSE OF I/A/W LOCAL, S TATE & FEDERAL REGULATIONS .

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assume responsibility for the suitability of this information to their  
particular situation.

MANVILLE SALES CORPORATION -- MANVILLE FIBERGLASS INSULATION -- 1560-01-334-9849

=====  
Product Identification  
=====

Product ID:MANVILLE FIBERGLASS INSULATION

MSDS Date:10/01/1991

FSC:1560

NIIN:01-334-9849

MSDS Number: BNTWB

=== Responsible Party ===

Company Name:MANVILLE SALES CORPORATION

Address:717 SEVENTEENTH STREET

City:DENVER

State:CO

ZIP:80217

Country:US

Info Phone Num:303-978-2000

Emergency Phone Num:303-978-4900

CAGE:75165

=== Contractor Identification ===

Company Name:SCHULLER INTERNATIONAL INC.

Box:5108

City:DENVER

State:CO

ZIP:80217-5108

Country:US

Phone:303-978-4900

CAGE:75165

=====  
Composition/Information on Ingredients  
=====

Ingred Name:FIBROUS GLASS

CAS:65997-17-3

Fraction by Wt: 82-89%

Other REC Limits:1 FIBER/CC

OSHA PEL:5 MG/CUM

ACGIH TLV:10 MG/CUM

Ingred Name:UREA EXTENDED PHENOL-FORMALDEHYDE RESIN CURED

CAS:25104-55-6

Fraction by Wt: 2-18%

Ingred Name:UREA EXTENDED PHENOL-MELAMINE-FORMALDEHYDE RESIN

CAS:25212-25-3

Fraction by Wt: 5-10%

Ingred Name:VINYL - NONWOVEN VINYL, AP, FSK FACINGS OR VINYL OR LATEX COATING.

Fraction by Wt: <1%

Other REC Limits:NONE RECOMMENDED

=====  
Hazards Identification  
=====

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Reports of Carcinogenicity:NTP:NO IARC:YES OSHA:NO

Health Hazards Acute and Chronic:ACUTE:DUST FROM THIS PRODUCT IS A MECHANICAL IRRITANT. BREATHING DUST FROM THIS PRODUCT MAY CAUSE SCRATCHY THROAT, CONGESTION, AND SLIGHT COUGHING. GETTING FIBERS OR DUST ON SKIN OR IN EYES MAY CAUSE ITCHING, RASH, OR REDNESS. CHRONIC: MORTALITY STUDIES HAV INDICATED A POSSIBLE INCREASE IN RESPIRATORY CANCER.

Explanation of Carcinogenicity:IMPLANTATION STUDIES HAVE BEEN POSITIVE SO IARC HAS CLASSIFIED GLASS WOOL AS POSSIBLY CARCINOGENIC FOR HUMANS.

Effects of Overexposure:EYE: MECHANICAL IRRITATION. SKIN: MECHANICAL IRRITATION, ITCHING, REDNESS. INHALED: UPPER RESPIRATORY IRRITATION, CONGESTION, COUGHING. INGESTED: G/I IRRITATION.

Medical Cond Aggravated by Exposure:LUNGS DISEASES

=====  
First Aid Measures  
=====

First Aid:INHALATION: REMOVE TO FRESH AIR. DRINK WATER TO CLEAR THROAT/BLOW NOSE TO EVACUATE FIBERS. SKIN: WASH AFFECTED AREAS GENTLY W/SOAP & WARM WATER. EYES: FLUSH W/COPIOUS QUANTITIES OF WATER. IF IRRITATIO N PERSISTS, CONSULT PHYSICIAN. NO CHRONIC EFFECTS ARE EXPECTED AFTER INGESTION.

=====  
Fire Fighting Measures  
=====

Fire Fighting Procedures:NO SPECIAL PROCEDURES ARE EXPECTED TO BE NECESSARY FOR THIS PRODUCT. NORMAL FIRE FIGHTING PROCEDURES SHOULD BE FOLLOWED TO AVOID INHALATION OF SMOKE AND GASES.

Unusual Fire/Explosion Hazard:SUPPLIER DID NOT ADDRESS THIS FIELD.

=====  
Accidental Release Measures  
=====

Spill Release Procedures:PICK UP PIECES. VACUUM CLEAN DUSTS. IF SWEEPING IS NECESSARY USE A DUST SUPPRESSANT. DO NOT DRY SWEEP.

==== Handling and Storage =====

Handling and Storage Precautions:KEEP MATERIAL DRY AND PROTECTED FROM THE ELEMENTS. WAREHOUSE STORAGE SHOULD BE IN ACCORDANCE WITH PACKAGE DIRECTIONS, IF ANY.

Other Precautions:USE PROTECTIVE EQUIPMENT WHEN HANDLING LOOSE OR UNPACKAGED MATERIAL.

==== Exposure Controls/Personal Protection =====

Respiratory Protection:USE NIOSH APPROVED DUST/MIST RESPIRATOR SHOULD BE USED IF VENTILATION IS UNAVAILABLE OR IS INADEQUATE FOR KEEPING DUST AND FIBER LEVELS BELOW APPLICABLE EXPOSURE LIMITS.

Ventilation:LOCAL EXHAUST VENTILATION SHOULD BE PROVIDEDYWHERE CUTTING ETC. IS DONE. USE GENERAL MECHANICAL VENTILATION TO BELOW PEL

Protective Gloves:RECOMMENDED

Eye Protection:SAFETY GLASSES W/SIDESHIELDS

Other Protective Equipment:WEAR LOOSE FITTING, LONG SLEEVED CLOTHING.

Work Hygienic Practices:WASH EXPOSED AREAS W/SOAP & WARM WATER AFTER HANDLING. WASH WORK CLOTHES SEPARATELY FROM OTHER CLOTHING/RINSE THOROUGHLY

Supplemental Safety and Health

MSDS RECEIVED FROM NAVY (FOCAL POINT N). NAVY IDENTIFIED NSN.

==== Physical/Chemical Properties =====

HCC:N1

Melt/Freeze Pt:M.P/F.P Text:>1300F,>704

Spec Gravity:SOLID

Appearance and Odor:GOLD TO YELLOW OR BLACK FIBROUS GLASS BLANKET, BOARD, OR FORMED SHAPE, NO ODOR

Percent Volatiles by Volume:0

==== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

THIS PRODUCT IS NOT REACTIVE.

Stability Condition to Avoid:THIS PRODUCT IS NOT REACTIVE.

Hazardous Decomposition Products:CARBON DIOXIDE, CARBON MONOXIDE,

CARBON PARTICLES, TRACES OF HYDROGEN CYANIDE FROM THE RESIN BURNING.

===== Disposal Considerations =====

Waste Disposal Methods: WASTES AREN'T HAZARDOUS AS DEFINED BY RCRA. COMPLY WITH FEDERAL, STATE & LOCAL REGULATIONS FOR THE DISPOSAL OF FIBEROUS GLASS WOOL PRODUCTS. IF UNSURE CONSULT WITH PUBLIC HEALTH DEPT. AND/OR ENVIRONMENTAL PROTECTION AGENCY.

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UNITED STATES GYPSUM COMPANY -- JOINT TREATMENT PRODUCTS-READY MIXED COMPOUNDS (SEE SUPP) -- 5640-00F029210

=====  
Product Identification  
=====

Product ID:JOINT TREATMENT PRODUCTS-READY MIXED COMPOUNDS (SEE SUPP)  
MSDS Date:04/20/1993  
FSC:5640  
NIIN:00F029210  
MSDS Number: BRVSZ  
=== Responsible Party ===  
Company Name:UNITED STATES GYPSUM COMPANY  
Address:125 S FRANKLIN ST  
City:CHICAGO  
State:IL  
ZIP:60606-4678  
Country:US  
Info Phone Num:312-321-4000  
Emergency Phone Num:312-606-4542  
CAGE:61357

=== Contractor Identification ===

Company Name:UNITED STATES GYPSUM CO  
Address:101 S WACKER DR  
Box:City:CHICAGO  
State:IL  
ZIP:60606-4302  
Country:US  
Phone:312-606-4000 (EMERG /4542)  
CAGE:61357

=====  
Composition/Information on Ingredients  
=====

Ingred Name:WATER  
CAS:7732-18-5  
RTECS #:ZC0110000

Ingred Name:SILICA, MICA, MUSCOVITE  
CAS:12001-26-2  
RTECS #:VV8760000  
OSHA PEL:20 MPPCF  
ACGIH TLV:3 MG/M3 RDUST; 9293

Ingred Name:TALC (POWDER), (ASBESTOS FREE), TALCUM; HYDROUS MAGNESIUM

SILICATE

CAS:14807-96-6  
RTECS #:WW2710000  
OSHA PEL:20 MPPCF  
ACGIH TLV:2 MG/CUM (RESP DUST)

Ingred Name:PERLITE  
CAS:93763-70-3  
RTECS #:SD5254000  
Other REC Limits:30 MPPCF  
OSHA PEL:5 MG/CUM (DUST)  
ACGIH TLV:10 MG/CUM TOTAL DUST

Ingred Name:ATTAPULGITE CLAY  
CAS:12174-11-7  
RTECS #:RT6400000  
OSHA PEL:15 MG/CUM  
ACGIH TLV:10 MG/CUM

Ingred Name:POLYVINYL ACETATE, VINYL ACETATE POLYMER  
CAS:9003-20-7  
RTECS #:AK0920000

Ingred Name:ETHYLENE GLYCOL, GLYCOL  
CAS:107-21-1  
RTECS #:KW2975000  
Fraction by Wt: 0-1%  
Other REC Limits:10 MG/CUM  
OSHA PEL:C 125 MG/CUM  
ACGIH TLV:C 127 MG/CUM  
EPA Rpt Qty:1 LB  
DOT Rpt Qty:1 LB

Ingred Name:GYPSUM  
CAS:13397-24-5  
RTECS #:MG2360000  
Other REC Limits:5 MG/CUM RESP DUST  
OSHA PEL:15 MG/CUM TOTAL DUST  
ACGIH TLV:10 MG/CUM

Ingred Name:CALCIUM CARBONATE, DOMOLITE, LIMESTONE, WHITING  
CAS:1317-65-3  
RTECS #:EV9580000



OSHA PEL:15 MG/CUM (DUST)  
ACGIH TLV:10 MG/CUM (DUST)

=====  
Hazards Identification  
=====

Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:EYES: MAY CAUSE TRANSITORY IRRITATION.  
INHALATION: MAY CAUSE IRRITATION TO NOSE/THROAT/UPPER RESPIRATORY  
TRACT. LONG TERM INHALATION OF LARGE AMOUNTS OF RESPIRABLE MICA OR  
TALC DUST CAN CAUSE LUNG DAMAGE (PULMONARY FIBROSIS).  
Explanation of Carcinogenicity:NONE  
Effects of Overexposure:EYES: IRRITATION. SKIN: DRYNESS. INHALATION:  
IRRITANT TO NOSE, THROAT OR UPPER RESPIRATORY SYSTEM.  
Medical Cond Aggravated by Exposure:PRE-EXISTING UPPER RESPIRATORY &  
LUNG DISEASE SUCH AS BRONCHITIS, EMPHYSEMA & ASTHMA.

=====  
First Aid Measures  
=====

First Aid:EYES: FLUSH W/WATER FOR 15 MIN. SKIN: WASH W/SOAP & WATER.  
INHALATION: REMOVE TO FRESH AIR. INGESTION: CALL PHYSICIAN. OBTAIN  
MEDICAL ATTENTION IN ALL CASES.

=====  
Fire Fighting Measures  
=====

Extinguishing Media:NON-COMBUSTIBLE

=====  
Accidental Release Measures  
=====

Spill Release Procedures:SCOOP UP. WASH DOWN AREA BEFORE MATERIAL  
DRIES.

=====  
Handling and Storage  
=====

Handling and Storage Precautions:WHEN FINISHING JOINTS USING THESE  
PRODUCTS, WET SANDING IS RECOMMENDED. STORE IN A COOL, DRY PLACE.  
AVOID FREEZING. DON'T TAKE INTERNALLY.

Other Precautions:KEEP OUT OF REACH OF CHILDREN.

=====  
Exposure Controls/Personal Protection  
=====

Respiratory Protection:IF DRY SANDED, WEAR A NIOSH APPROVED DUST  
RESPIRATOR WHEN DRY SANDING.

Ventilation:GENERAL MECHANICAL OR LOCAL EXHAUST

Eye Protection:SAFETY GLASSES/GOGGLES

Supplemental Safety and Health

USG-ALL PURPOSE/USG-TOPPING I/USG-TOPPING II/USG-TAPING/USG-LIGHTWEIGHT  
ALL PURPOSE JOINT COMPOUND/SHEETROCK-LIGHTWEIGHT ALL PURPOSE REGAL.  
HEALTH HAZARDS OCCUR WHEN SPRAY/MIST/DUST FROM SANDING.

===== Physical/Chemical Properties =====

Spec Gravity:1.6

pH:8-9.5

Appearance and Odor:OFF WHITE PASTE; LOW ODOR.

Percent Volatiles by Volume: 35

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

Stability Condition to Avoid:FREEZING

===== Disposal Considerations =====

Waste Disposal Methods:LANDFILL IN ACCORDANCE W/LOCAL, STATE, & FEDERAL  
REGULATIONS.

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assume responsibility for the suitability of this information to their  
particular situation.

MINWAX CO -- M060092 FAST DRYING POLYURETHANE CLEAR GLOSS -- 8010-00F051615

=====  
Product Identification  
=====

Product ID:M060092 FAST DRYING POLYURETHANE CLEAR GLOSS

MSDS Date:01/05/1995

FSC:8010

NIIN:00F051615

MSDS Number: CCFKQ

=== Responsible Party ===

Company Name:MINWAX CO

Address:15 MERCEDES DRIVE

Box:438

City:MONTVALE

State:NJ

ZIP:07645-5000

Country:US

Info Phone Num:201-573-5700/201-391-0253

Emergency Phone Num:201-391-0253/201-573-5700

CAGE:E0256

=== Contractor Identification ===

Company Name:MINWAX CO

Address:15 MERCEDES DR

Box:438

City:MONTVALE

State:NJ

ZIP:07645

Country:US

Phone:800-523-9299/201-391-0253

CAGE:E0256

Company Name:MINWAX COMPANY

Address:10 MOUNTAINVIEW ROAD

Box:City:UPPER SADDLE RIVER

State:NJ

ZIP:07458

Country:US

Phone:800-523-9299/216-566-2917

CAGE:0K1A4

=====  
Composition/Information on Ingredients  
=====

Ingred Name:MEDIUM ALIPHATIC NAPHTHA (AROMATIC 100), PARAFFIN-NAPTHANES  
MINERAL SPIRITS \* 96-3 \*

CAS:64742-88-7

Fraction by Wt: 20-26%

Other REC Limits:100 PPM

OSHA PEL:500 PPM

ACGIH TLV:100 PPM

Ingred Name:STODDARD SOLVENT (PETROLEUM DISTILLATE), MINERAL SPIRITS

\* 96-3 \*

CAS:8052-41-3

RTECS #:WJ8925000

Fraction by Wt: 29-40%

Other REC Limits:525 MG/CUM

OSHA PEL:500 PPM

ACGIH TLV:100 PPM

Ingred Name:VOLATILE ORGANIC CONTENT: 485 GM/L

RTECS #:9999999VO

=====  
Hazards Identification  
=====

Routes of Entry: Inhalation:YES Skin:NO Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:SKIN: IRRITATION. INGESTION:  
HARMFUL/FATAL.

Explanation of Carcinogenicity:NONE  
Effects of Overexposure:IRRITATION  
Medical Cond Aggravated by Exposure:PRE-EXISTING LUNG DISORDERS.

=====  
First Aid Measures  
=====

First Aid:INHALATION: IMMEDIATELY MOVE TO FRESH AIR. SKIN: WASH  
THOROUGHLY W/SOAP & WATER. EYES: FLUSH W/PLENTY OF WATER.  
INGESTION: DON'T INDUCE VOMITING. OBTAIN MEDICAL ATTENTION IN ALL  
CASES.

=====  
Fire Fighting Measures  
=====

Flash Point Method:SCC  
Flash Point:>101F  
Extinguishing Media:WATER SPRAY, FOAM, DRY CHEMICAL/CO2  
Fire Fighting Procedures:WEAR SELF CONTAINED BREATHING APPARATUS &  
PROTECTIVE CLOTHING. USE WATER SPRAY TO COOL FIRE-EXPOSED  
CONTAINERS. DON'T USE DIRECT STREAM OF WATER.

Unusual Fire/Explosion Hazard:PRODUCT MAY FLOAT & CAN BE REIGNITED ON SURFACE OF WATER. CONTAINERS EXPOSED TO INTENSE HEAT FROM FIRE MAY CAUSE VAPOR PRESSURE BUILDUP & RUPTURE CONTAINERS.

===== Accidental Release Measures =====

Spill Release Procedures:SMALL: ABSORB W/SAND/OTHER SUITABLE ABSORBENT MATERIAL & PLACE IN A CONTAINER FOR DISPOSAL. LARGE: AREA MAY BE SLIPPERY, DIKE W/ABSORBENT MATERIAL. TRANSFER LIQUIDS & CONTAMINATED DIKING MATERIAL TO SEPARATE, SUITABLE CONTAINERS FOR RECOVERY/DISPOSAL

===== Handling and Storage =====

Handling and Storage Precautions:DON'T USE/STORE NEAR HEAT, SPARKS, FLAME/OTHER SOURCES OF IGNITION. CLOSE CONTAINER AFTER EACH USE. KEEP OUT OF REACH OF CHILDREN.

Other Precautions:AVOID CONTACT W/SKIN/EYES. AVOID INHALATION & USE ONLY W/ADEQUATE VENTILATION. DON'T TAKE INTERNALLY.

===== Exposure Controls/Personal Protection =====

Respiratory Protection:IF ADEQUATE VENTILATION CAN'T BE MAINTAINED, WEAR RESPIRATORY PROTECTION (NIOSH/MSHA TC23C)/LEAVE THE AREA.

Ventilation:ADEQUATE VENTILATION

Protective Gloves:RUBBER

Eye Protection:SAFETY GLASSES

Supplemental Safety and Health

===== Physical/Chemical Properties =====

Spec Gravity:0.872

Solubility in Water:INSOLUBLE

Appearance and Odor:CLEAR AMBER LIQUID W/HYDROCARBON ODOR

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZING AGENTS

Stability Condition to Avoid:INTENSE HEAT, SPARKS, FIRE/FLAME & OTHER IGNITION SOURCES

Hazardous Decomposition Products:HYDROCARBON FUMES, SMOKE, CO.

=====  
===== Disposal Considerations =====

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE W/LOCAL, STATE &  
FEDERAL REGULATIONS.

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assume responsibility for the suitability of this information to their  
particular situation.

MINWAX CO -- M060370 FAST DRYING POLYURETHANE CLEAR SATIN -- 8010-00F051617

=====  
Product Identification  
=====

Product ID:M060370 FAST DRYING POLYURETHANE CLEAR SATIN

MSDS Date:01/05/1995

FSC:8010

NIIN:00F051617

MSDS Number: CCFKS

=== Responsible Party ===

Company Name:MINWAX CO

Address:15 MERCEDES DRIVE

Box:438

City:MONTVALE

State:NJ

ZIP:07645-5000

Country:US

Info Phone Num:201-573-5700/201-391-0253

Emergency Phone Num:201-391-0253/201-573-5700

CAGE:E0256

=== Contractor Identification ===

Company Name:MINWAX CO

Address:15 MERCEDES DR

Box:438

City:MONTVALE

State:NJ

ZIP:07645

Country:US

Phone:800-523-9299/201-391-0253

CAGE:E0256

Company Name:MINWAX COMPANY

Address:10 MOUNTAINVIEW ROAD

Box:City:UPPER SADDLE RIVER

State:NJ

ZIP:07458

Country:US

Phone:800-523-9299/216-566-2917

CAGE:0K1A4

=====  
Composition/Information on Ingredients  
=====

Ingred Name:MEDIUM ALIPHATIC NAPHTHA (AROMATIC 100), PARAFFIN-NAPTHANES  
MINERAL SPIRITS \* 96-3 \*

CAS:64742-88-7

Fraction by Wt: 20-26%

Other REC Limits:100 PPM

OSHA PEL:500 PPM

ACGIH TLV:100 PPM

Ingred Name:STODDARD SOLVENT (PETROLEUM DISTILLATE), MINERAL SPIRITS

\* 96-3 \*

CAS:8052-41-3

RTECS #:WJ8925000

Fraction by Wt: 29-40%

Other REC Limits:525 MG/CUM

OSHA PEL:500 PPM

ACGIH TLV:100 PPM

Ingred Name:VOLATILE ORGANIC CONTENT: 540 GM/L

RTECS #:9999999VO

=====  
Hazards Identification  
=====

Routes of Entry: Inhalation:YES Skin:NO Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:SKIN: IRRITATION. INGESTION:  
HARMFUL/FATAL.

Explanation of Carcinogenicity:NONE  
Effects of Overexposure:IRRITATION  
Medical Cond Aggravated by Exposure:PRE-EXISTING LUNG DISORDERS.

=====  
First Aid Measures  
=====

First Aid:INHALATION: IMMEDIATELY MOVE TO FRESH AIR. SKIN: WASH  
THOROUGHLY W/SOAP & WATER. EYES: FLUSH W/PLENTY OF WATER.  
INGESTION: DON'T INDUCE VOMITING. OBTAIN MEDICAL ATTENTION IN ALL  
CASES.

=====  
Fire Fighting Measures  
=====

Flash Point Method:SCC  
Flash Point:>101F  
Extinguishing Media:WATER SPRAY, FOAM, DRY CHEMICAL/CO2  
Fire Fighting Procedures:WEAR SELF CONTAINED BREATHING APPARATUS &  
PROTECTIVE CLOTHING. USE WATER SPRAY TO COOL FIRE-EXPOSED  
CONTAINERS. DON'T USE DIRECT STREAM OF WATER.



Unusual Fire/Explosion Hazard:PRODUCT MAY FLOAT & CAN BE REIGNITED ON SURFACE OF WATER. CONTAINERS EXPOSED TO INTENSE HEAT FROM FIRE MAY CAUSE VAPOR PRESSURE BUILDUP & RUPTURE CONTAINERS.

===== Accidental Release Measures =====

Spill Release Procedures:SMALL: ABSORB W/SAND/OTHER SUITABLE ABSORBENT MATERIAL & PLACE IN A CONTAINER FOR DISPOSAL. LARGE: AREA MAY BE SLIPPERY, DIKE W/ABSORBENT MATERIAL. TRANSFER LIQUIDS & CONTAMINATED DIKING MATERIAL TO SEPARATE, SUITABLE CONTAINERS FOR RECOVERY/DISPOSAL

===== Handling and Storage =====

Handling and Storage Precautions:DON'T USE/STORE NEAR HEAT, SPARKS, FLAME/OTHER SOURCES OF IGNITION. CLOSE CONTAINER AFTER EACH USE. KEEP OUT OF REACH OF CHILDREN.

Other Precautions:AVOID CONTACT W/SKIN/EYES. AVOID INHALATION & USE ONLY W/ADEQUATE VENTILATION. DON'T TAKE INTERNALLY.

===== Exposure Controls/Personal Protection =====

Respiratory Protection:IF ADEQUATE VENTILATION CAN'T BE MAINTAINED, WEAR RESPIRATORY PROTECTION (NIOSH/MSHA TC23C)/LEAVE THE AREA.

Ventilation:ADEQUATE VENTILATION

Protective Gloves:RUBBER

Eye Protection:SAFETY GLASSES

Supplemental Safety and Health

===== Physical/Chemical Properties =====

Spec Gravity:0.871

Solubility in Water:INSOLUBLE

Appearance and Odor:CLEAR AMBER LIQUID W/HYDROCARBON ODOR

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZING AGENTS

Stability Condition to Avoid:INTENSE HEAT, SPARKS, FIRE/FLAME & OTHER IGNITION SOURCES

Hazardous Decomposition Products:HYDROCARBON FUMES, SMOKE, CO.

===== Disposal Considerations =====

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE W/LOCAL, STATE &  
FEDERAL REGULATIONS.

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assume responsibility for the suitability of this information to their  
particular situation.

BENJAMIN MOORE -- 220 IRONCLAD RETARDO LATEX FIRE RETARDANT -- 8010-00F005755

=====  
Product Identification  
=====

Product ID:220 IRONCLAD RETARDO LATEX FIRE RETARDANT  
MSDS Date:01/01/1987  
FSC:8010  
NIIN:00F005755

MSDS Number: BBTDT

=== Responsible Party ===

Company Name:BENJAMIN MOORE/MONTVALE, NJ 07645  
Emergency Phone Num:(201) 344-1200  
CAGE:FO135

=== Contractor Identification ===

Company Name:BENJAMIN MOORE & CO  
Address:51 CHESTNUT RIDGE RD  
Box:City:MONTVALE  
State:NJ  
ZIP:07645  
Country:US  
Phone:201-573-9600  
CAGE:91950  
Company Name:BENJAMIN MOORE/MONTVALE, NJ 07645  
CAGE:FO135

=====  
Composition/Information on Ingredients  
=====

Ingred Name:NON-HAZARDOUS FOR INGREDIENTS  
Fraction by Wt: 100%

=====  
Hazards Identification  
=====

Effects of Overexposure:EYE: PRIMARY IRRITATION.

=====  
First Aid Measures  
=====

First Aid:EYES: FLUSH WITH CLEAN WATER. IF IRRITATION PERSISTS CALL  
PHYSICIAN.

=====  
Fire Fighting Measures  
=====

Fire Fighting Procedures:NON-COMBUSTIBLE.  
Unusual Fire/Explosion Hazard:NON-COMBUSTIBLE.

===== Accidental Release Measures =====

Spill Release Procedures:FLUSH WITH WATER. ABSORB WITH SAWDUST OR RAGS.

===== Handling and Storage =====

Handling and Storage Precautions:DON'T THROW OR DROP CONTAINERS. DON'T TAKE INTERNALLY. CLOSE CONTAINER AFTER EACH USE. AVOID ES CONT/PROLONGED SKIN OR BREATHING OF SPRAY MIST.

Other Precautions:KEEP AWAY FROM CHILDREN.

===== Exposure Controls/Personal Protection =====

Protective Gloves:WATERPROOF

Eye Protection:SAFETY GLASSES

Supplemental Safety and Health

MSDS DATE: 04/86. THESE PRODUCTS ARE NON-COMBUSTIBLE WATER EMULSION PAINTS FORMULATED W/O LEAD OR MERCURY. THEY AREN'T HAZDOUS SUBSTANCES UNDER CURRENT DEPARTMENT OF LABOR DEFINITIONS.

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

===== Disposal Considerations =====

Waste Disposal Methods:CONVENTIONAL METHODS IN COMPLIANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS.

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## M A T E R I A L   S A F E T Y   D A T A   S H E E T

Rev 28200.05B

For Coating, Resins, and Related Materials NPCA 1-84

MANUFACTURER'S NAME  
 BENJAMIN MOORE & Co.  
 51 CHESTNUT RIDGE RD.  
 MONTVALE, NJ 07645

EMERGENCY TELEPHONE NO.  
 800-424-9300 (CHEMTREC)

DATE OF PREPARATION  
 15-DEC-97 (Sup. 02-DEC-97)

INFORMATION TELEPHONE  
 201-573-9600

 =====  
 SECTION I - PRODUCT ID  
 =====

	HMIS CODE	SARA TITLE 312
PRODUCT CODE: 282		Acute: NO
CLASS: WATER THINNED PAINT	Health: 1*	Chronic: YES
NAME: MOORCRAFT SUPER HIDE VINYL	Flammability: 0	Fire: NO
LATEX FLAT	Reactivity: 0	Pressure: NO
COLOR: ALL	Personal Prot.:	React: NO

For a complete description of HMIS and an explanation of the PERSONAL PROT:  
 code, see Section XX.

 =====  
 SECTION II - HAZARDOUS INGREDIENTS  
 =====

INGREDIENT	MAX PCT	CAS NO. TLV	PEL	STEL	CEIL	MM Hg	TEMP
Titanium Dioxide (f*n)	13.8	13463677					
		10mg/m3	10mg/m3	N/E	N/E		N/A
Calcium Carbonate (f*)	35.0	471341					
		10mg/m3	5mg/m3	N/E	N/E		N/A
Silica, Crystalline (f*n)	0.2	14808607					
		.1mg/m3	.1mg/m3	N/E	N/E		N/A
Diatomaceous Earth (f*n)	7.0	61790532					
		10mg/m3	5mg/m3	N/E	N/E		N/A

f Federal Hazard List

\* Hazardous only as dust when product is sanded.

3 Sect. 313 of the Emergency Planning & Community Right-To-Know Act of 1986  
 and of 40 CFR 37

n New Jersey Label Law hazardous chemical

This product may contain small amounts of materials known to the State of California to cause cancer and reproductive harm.

SECTION III - PHYSICAL DATA

BOILING RANGE: N/A VAPOR DENSITY: HEAVIER THAN AIR  
WEIGHT PER GAL: 10.7 - 12.1

EVAPORATION RATE: SLOWER THAN ETHER % VOLATILE VOLUME: 60.9 - 76.4

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION: NOT REGULATED FLASH PT.: >250 F PMCC

LEL: Not Applicable

EXTINGUISHING MEDIA: FOAM CO2 DRY CHEMICAL WATER FOG

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Closed containers may burst if exposed to extreme heat or fire.  
Toxic gases may form when product burns.

SPECIAL FIREFIGHTING PROCEDURES:

Cool exposed containers with water. Use self-contained breathing apparatus.

SECTION V - HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE - ACUTE:

Inhalation - Causes nose and throat irritation.

Inhalation - Causes lung irritation.

Skin and Eye Contact - Primary irritation.

Ingestion of large amounts could cause serious injury.

EFFECTS OF OVEREXPOSURE - CHRONIC:

Inhalation statement: Sanding dust inhalation may cause lung damage.

Contains: Crystalline silica which has been determined to be carcinogenic to humans (1) by IARC when in respirable form. Risk of cancer depends on duration and level of inhalation exposure to dust from sanding the dried paint or spray mist.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE:

None expected when used in accordance with Safe Handling and Use Information (Section VIII).

PRIMARY ROUTE(S) OF ENTRY: DERMAL INHALATION INGESTION

EMERGENCY AND FIRST AID PROCEDURES:

Inhalation - Remove to fresh air. Get medical help for any breathing difficulty. Eye Contact - Flush thoroughly with water. Call physician. Skin Contact - Wash with soap and water. Ingestion - Drink 1 or 2 glasses of water to dilute. Do NOT induce vomiting. Call physician.

SECTION VI - REACTIVITY DATA

STABILITY: STABLE HAZARDOUS POLYMERIZATION WILL NOT OCCUR

HAZARDOUS DECOMPOSITION PRODUCTS: Burning may produce carbon dioxide and carbon monoxide.

CONDITIONS TO AVOID: Elevated temperatures

INCOMPATIBILITY (MATERIALS TO AVOID): None reasonably foreseeable.

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Flush with water. Absorb with sawdust or rags.

WASTE DISPOSAL METHOD:

Conventional procedures in compliance with local, state and federal regulations. Do not incinerate sealed containers.

SECTION VIII - SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION:

Use NIOSH approved respirator specified for protection against paint spray mist and sanding dust in restricted or confined areas.

VENTILATION:

Adequate to maintain working atmosphere below T.L.V. and L.E.L. (See Sect. II for ingredient data and concentrations). Mechanical exhaust may be required in confined areas.

PROTECTIVE GLOVES: Waterproof during repeated contact.

EYE PROTECTION: Splash goggles or safety glasses with side shields.

OTHER PROTECTIVE EQUIPMENT: Clothing adequate to protect skin.

HYGIENIC PRACTICES:

Remove and wash clothing before reuse. Wash hands before eating, smoking or using the washroom.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Do not throw or drop containers.

OTHER PRECAUTIONS:

Avoid contact with eyes and prolonged contact with skin or breathing of spray mist or sanding dust.

Close container after each use. Keep out of reach of children. Do not take internally.

SECTION XX

Hmis (Hazardous Materials Identification System) (R) NPCA

HMIS is a recognized workplace Hazard Communications System as required by OSHA (40CFR 1910. 1200). Information on establishing a complaint hazardous communication program using HMIS is available from:

American Labelmark Co., Inc., Labelmaster Division
6724 N. Pulaski Rd., Chicago, IL 60646
1-800-621-5808

The ratings assigned by Benjamin Moore & Co. are only suggested ratings; the contractor/employer has ultimate responsibility for HMIS rating where this system is used.

PERSONAL PROTECTION: This code is left blank on Benjamin Moore & Co. MSDS's as it depends on application technique and the workplace ventilation. Please read Sections II through IX of this MSDS before deciding on appropriate protective equipment and beginning work. There are codes available for this section which can be obtained from Labelmaster.

This product contains at least one toxic chemical listed in Section II that is subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and 40 CFR 372.



BENJAMIN MOORE & CO -- MOORCRAFT SUPER HIDE LATEX SEMI-GLOSS ENAMEL, 283 --  
8010-00N016199

=====  
Product Identification  
=====

Product ID:MOORCRAFT SUPER HIDE LATEX SEMI-GLOSS ENAMEL, 283  
MSDS Date:10/02/1995  
FSC:8010  
NIIN:00N016199  
MSDS Number: CGQRN  
=== Responsible Party ===  
Company Name:BENJAMIN MOORE & CO  
Address:51 CHESTNUT RIDGE RD  
City:MONTVALE  
State:NJ  
ZIP:07645  
Country:US  
Info Phone Num:201-573-9600  
Emergency Phone Num:800-424-9300 (CHEMTREC)  
CAGE:09585

=== Contractor Identification ===

Company Name:BENJAMIN MOORE & CO  
Address:51 CHESTNUT RIDGE RD  
City:MONTVALE  
State:NJ  
ZIP:07645  
Country:US  
Phone:201-573-9600  
CAGE:09585  
Company Name:BENJAMIN MOORE & CO  
Address:51 CHESTNUT RIDGE RD  
Box:City:MONTVALE  
State:NJ  
ZIP:07645  
Country:US  
Phone:201-573-9600  
CAGE:91950

=====  
Composition/Information on Ingredients  
=====

Ingred Name:TITANIUM OXIDE; (TITANIUM DIOXIDE)  
CAS:13463-67-7  
RTECS #:XR2275000

Fraction by Wt: 19.1%  
OSHA PEL:15 MG/M3 TDUST  
ACGIH TLV:10 MG/M3 TDUST

Ingred Name:SILICA, AMORPHOUS FUMED; (SILICON DIOXIDE)  
CAS:112945-52-5  
RTECS #:VV7310000  
Fraction by Wt: 1.0%  
OSHA PEL:6 MG/M3  
ACGIH TLV:10 MG/M3

Ingred Name:PIGMENTS  
OSHA PEL:N/K  
ACGIH TLV:N/K

=====  
===== Hazards Identification =====

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.  
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:ACUTE: INHALATION: IRRITATION OF  
RESPIRATORY TRACT. SKIN AND EYE CONTACT: PRIMARY IRRITATION.  
INGESTION OF LARGE AMOUNTS COULD CAUSE SERIOUS INJURY. CHRONIC:  
NONE KNOWN.  
Explanation of Carcinogenicity:NOT RELEVANT  
Effects of Overexposure:SEE HEALTH HAZARDS.  
Medical Cond Aggravated by Exposure:NONE EXPECTED WHEN USED IN  
ACCORDANCE WITH SAFE HANDLING AND USE INFORMATION.

=====  
===== First Aid Measures =====

First Aid:INHAL: REMOVE TO FRESH AIR. GET MEDICAL HELP FOR ANY  
BREATHING DIFFICULTY. EYES: FLUSH THOROUGHLY WITH WATER FOR AT  
LEAST 15 MINUTES. CALL MD. SKIN: WASH WITH SOAP AND WATER. INGEST:  
DRINK 1 OR 2 GLAS SES OF WATER TO DILUTE. DO NOT INDUCE VOMITING.  
CALL MD.

=====  
===== Fire Fighting Measures =====

Flash Point Method:PMCC  
Flash Point:>250F,>121C  
Extinguishing Media:FOAM, CARBON DIOXIDE, DRY CHEMICAL, WATER FOG.  
Fire Fighting Procedures:USE NIOSH APPROVED SCBA AND FULL PROTECTIVE

EQUIPMENT . COOL EXPOSED CONTAINERS WITH WATER.

Unusual Fire/Explosion Hazard:TOXIC GASES MAY FORM WHEN PRODUCT BURNS.  
CLOSED CONTAINERS MAY BURST IF EXPOSED TO EXTREME HEAT OR FIRE.

===== Accidental Release Measures =====

Spill Release Procedures:FLUSH WITH WATER. ABSORB WITH SAWDUST OR RAGS.  
Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

===== Handling and Storage =====

Handling and Storage Precautions:DO NOT THROW OR DROP CONTAINERS.  
Other Precautions:AVOID CONTACT WITH EYES AND PROLONGED CONTACT WITH  
SKIN OR BREATHING OF SPRAY MIST OR SANDING DUST. CLOSE CONTAINER  
AFTER EACH USE. KEEP OUT OF REACH OF CHILDREN. DO NOT TAKE  
INTERNALLY.

===== Exposure Controls/Personal Protection =====

Respiratory Protection:USE NIOSH APPROVED RESPIRATOR SPECIFIED FOR  
PROTECTION AGAINST PAINT SPRAY MIST AND SANDING DUST IN RESTRICTED  
OR CONFINED AREAS.

Ventilation:ADEQ TO MAINTAIN WORKING ATMOSPHERE BELOW TLV & LEL (SEE  
INGRED SECTION). MECH EXHAUST MAY BE REQD IN CONFINED AREAS.

Protective Gloves:WATERPROOF GLOVES.

Eye Protection:ANSI APPRVD CHEM WORKERS GOGGLES .

Other Protective Equipment:ANSI APPROVED EYE WASH & DELUGE SHOWER .  
CLOTHING ADEQUATE TO PROTECT SKIN.

Work Hygienic Practices:REMOVE AND WASH CLOTHING BEFORE REUSE. WASH  
HANDS BEFORE EATING, SMOKING OR USING THE WASHROOM.

Supplemental Safety and Health

% VOLAT: 69.5-73.0.

===== Physical/Chemical Properties =====

Vapor Density:HVR/AIR

Spec Gravity:1.20-1.22

Evaporation Rate & Reference:SLOWER THAN ETHER

Appearance and Odor:NONE SPECIFIED BY MANUFACTURER.

Percent Volatiles by Volume:SUPDAT

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid: YES

NONE REASONABLY FORSEEABLE.

Stability Condition to Avoid: ELEVATED TEMPERATURES.

Hazardous Decomposition Products: BURNING MAY PRODUCE CARBON DIOXIDE AND CARBON MONOXIDE.

=====  
===== Disposal Considerations =====

Waste Disposal Methods: CONVENTIONAL PROCEDURES IN COMPLIANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. DO NOT INCINERATE SEALED CONTAINERS.

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CHEM SERVICE INC -- CARBON TETRACHLORIDE -- 6810-00N050733

=====  
Product Identification  
=====

Product ID:CARBON TETRACHLORIDE  
MSDS Date:07/02/1991  
FSC:6810  
NIIN:00N050733  
MSDS Number: BVDWZ  
=== Responsible Party ===  
Company Name:CHEM SERVICE INC  
Box:3108  
City:WESTCHESTER  
State:PA  
ZIP:19381  
Country:US  
Emergency Phone Num:215-692-3026  
CAGE:84898

=== Contractor Identification ===

Company Name:CHEM SERVICE INC  
Box:3108  
City:WEST CHESTER  
State:PA  
ZIP:19381  
Country:US  
Phone:215-692-3026  
CAGE:84898

=====  
Composition/Information on Ingredients  
=====

Ingred Name:CARBON TETRACHLORIDE  
CAS:56-23-5  
RTECS #:FG4900000  
OSHA PEL:10 PPM  
ACGIH TLV:5 PPM,C  
EPA Rpt Qty:10 LBS  
DOT Rpt Qty:10 LBS  
Ozone Depleting Chemical:1

=====  
Hazards Identification  
=====

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.  
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO  
Health Hazards Acute and Chronic:ALL CHEM SHOULD BE CONSIDERED  
HAZ-AVOID DIRECT PHYSICAL CONT. MAY PRDCE CANCER. MAY BE FATAL IF  
ABSORBED THRU SKIN. MAY BE FATAL IF INHALED. MAY BE FATAL IF  
SWALLOWED. PRLNGD EXPOS MAY CAUSE NAUS/HDCH /DIZZ &/OR EYE DAM.  
INGEST MAY CAUSE DIARR. EXPOS CAN CAUSE LIVER DAM. EXPOS CAN CAUSE  
KIDNEY DAM. (EFTS OF OVEREXP)  
Explanation of Carcinogenicity:CARBON TETRACHLORIDE:IARC MONO, SUPP,  
VOL 7, PG 143, 1987: GRP 2B. NTP 6TH ANNUAL REPORT ON CARCINS,  
1991: ANTIC(SUPDAT)  
Effects of Overexposure:HLTH HAZ: RPTD EXPOS TO VAPS &/OR DUST CAN  
CAUSE EYE INJURY. CAN CAUSE SENSIT BY SKIN CONT. CAN CAUSE DELAYED  
ADVERSE HLTH EFTS. CAN CAUSE GI DISTURB. AVOID CONSUMPTION OF  
ALCOHOL BEFORE & AFTER HNDLG OF CMPD. MAY BE RAPIDLY ABSORBED THRU  
SKIN W/POTNTL ADVERSE HLTH EFTS.  
Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

=====  
First Aid Measures  
=====

First Aid:EYES: FLUSH CONTINUOUSLY W/WATER FOR @ LST 15-20 MIN. SKIN:  
FLUSH W/WATER FOR 15-20 MIN. IF NO BURNS HAVE OCCURRED-USE SOAP &  
WATER TO CLEANSE SKIN. REMOVE & WASH CONTAMD CLTHG. INHAL: REMOVE  
TO FRESH AIR. ADMINISTER OXYGEN IF HAVING DFLCTYBRTHG. IF PATIENT  
HAS STOPPED BRTHG ADMINISTER ARTF RESP. IF PATIENT IS IN CARDIAC  
ARREST ADMIN CPR. CONTINUE LIFE SUPPORTING MEASURES UNTIL MED  
ASSIST (SUPDAT)

=====  
Fire Fighting Measures  
=====

Flash Point:NON-FLAMMABLE  
Extinguishing Media:CARBON DIOXIDE/DRY CHEMICAL POWDER. DO NOT USE  
WATER!  
Fire Fighting Procedures:WEAR NIOSH/MSHA APPROVED SCBA AND FULL  
PROTECTIVE EQUIPMENT .  
Unusual Fire/Explosion Hazard:NO EXPLOSION LIMITS ARE AVAILABLE FOR  
THIS COMPOUND.

=====  
Accidental Release Measures  
=====

Spill Release Procedures:EVAC AREA. WEAR APPROPRIATE NIOSH/MSHA  
APPROVED REGULATED EQUIPMENT. ABSORB ON VERMICULITE/SIMILAR  
MATERIAL. SWEEP UP AND PLACE IN AN APPROPRIATE CONTAINER. HOLD FOR  
DISPOSAL. WASH CONTAMD TO SURF TO REMOVE ANY RESIDUES.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

=====  
Handling and Storage  
=====

Handling and Storage Precautions:AVOID CONT W/SKIN, EYES & CLTHG. KEEP TIGHTLY CLSD IN A COOL DRY PLACE. STORE ONLY W/COMPATIBLE CHEMICALS.

Other Precautions:NONE SPECIFIED BY MANUFACTURER.

=====  
Exposure Controls/Personal Protection  
=====

Respiratory Protection:USE APPROPRIATE NIOSH/MSHA APPROVED SAFETY EQUIPMENT.

Ventilation:THIS CHEMICAL SHOULD BE HANDLED ONLY IN A HOOD.

Protective Gloves:IMPERVIOUS GLOVES .

Eye Protection:ANSI APPRVD CHEM WORKS GOGGS .

Other Protective Equipment:NONE SPECIFIED BY MANUFACTURER.

Work Hygienic Practices:NONE SPECIFIED BY MANUFACTURER.

Supplemental Safety and Health

EXPLAN OF CARCIN: TO BE CARCIN. HUMAN: LIVER, KIDNEYS, LUNG DMG. FIRST AID PROC: HAS ARRIVED. IF EXHIBITING SIGNS OF SHOCK-KEEP WARM & QUIET. INDUCE VOMIT. DO NOT ADMINISTER LIQ/INDUCE VOMIT TO AN UNCONVULS PERSON. CONT POIS CTL CTR IMMED IF NEC. GET MED ATTN IF NEC.

=====  
Physical/Chemical Properties  
=====

Boiling Pt:B.P. Text:170F,77C

Melt/Freeze Pt:M.P/F.P Text:73.4F,23.0C

Vapor Pres:91@20C

Vapor Density:5.1

Spec Gravity:1.589

Evaporation Rate & Reference:0.33 (BUTYL ACETATE=1)

Solubility in Water:VERY SLIGHTLY SOL

Appearance and Odor:COLORLESS LIQUID, ETHER LIKE ODOR

=====  
Stability and Reactivity Data  
=====

Stability Indicator/Materials to Avoid:YES

ACTIVE METALS (E.G. SODIUM); POWDERED METALS; STRONG OXIDIZING AGENTS.

Stability Condition to Avoid:REACTS WITH AMIDES. SENSITIVE TO HEAT/LIGHT. DARK COLOR DOES NOT AFFECT PURITY. VOLATILE.

Hazardous Decomposition Products:DECOMPOSITION LIBERATES TOXIC FUMES.

=====  
===== Disposal Considerations =====

Waste Disposal Methods: BURN IN A CHEMICAL INCINERATOR EQUIPPED WITH AN AFTERBURNER AND SCRUBBER. DISPOSE OF I/A/W FEDERAL, STATE AND LOCAL REGULATIONS .

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SCIENTIFIC POLYMER PRODUCTS INC -- CELLULOSE TRIACETATE, 031 -- 6810-00N041010

=====  
Product Identification  
=====

Product ID:CELLULOSE TRIACETATE, 031  
MSDS Date:11/01/1991  
FSC:6810  
NIIN:00N041010  
MSDS Number: BSGWT  
=== Responsible Party ===  
Company Name:SCIENTIFIC POLYMER PRODUCTS INC  
Address:6265 DEAN PARKWAY  
City:ONTARIO  
State:NY  
ZIP:14519  
Country:US  
Info Phone Num:716-265-0413  
Emergency Phone Num:716-265-0413  
CAGE:0MWG0

=== Contractor Identification ===  
Company Name:SCIENTIFIC POLYMER PRODUCTS INC  
Address:6265 DEAN PARKWAY  
Box:City:ONTARIO  
State:NY  
ZIP:14519  
Country:US  
Phone:716-265-0413  
CAGE:0MWG0

=====  
Composition/Information on Ingredients  
=====

Ingred Name:CELLULOSE TRIACETATE  
CAS:9012-09-3  
Fraction by Wt: 100%

=====  
Hazards Identification  
=====

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.  
Routes of Entry: Inhalation:NO Skin:NO Ingestion:NO  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:MATERIAL THAT CONTACTS EYE MAY BE  
IRRITATING OR CAUSE MECHANICAL INJURY. LOW HAZARD FOR USUAL  
HANDLING.

Explanation of Carcinogenicity:NOT RELEVANT.

Effects of Overexposure:SEE HEALTH HAZARDS.

Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

=====  
First Aid Measures  
=====

First Aid:IN ALL CASES, IF IRRITATION DEVELOPS, SEEK MEDICAL ASSISTANCE. INHAL:REMOVE FROM EXPOSURE. IF BREATHING STOPS, BEGIN MOUTH TO MOUTH. EYES:FLUSH W/WATER FOR AT LEAST 15 MINS. SKIN:WASH AFFECTED AREA W/ SOAP & WATER. REMOVE DIRTY CLOTHING. INGEST:CALL MD IMMEDIATELY .

=====  
Fire Fighting Measures  
=====

Extinguishing Media:WATER SPRAY, FOAM, CARBON DIOXIDE OR DRY CHEMICAL.

Fire Fighting Procedures:WEAR NIOSH/MSHA APPROVED SCBA & FULL PROTECTIVE EQUIPMENT .

Unusual Fire/Explosion Hazard:NONE KNOWN.

=====  
Accidental Release Measures  
=====

Spill Release Procedures:SWEEP UP & PLACE IN CONTAINER FOR DISPOSAL.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

=====  
Handling and Storage  
=====

Handling and Storage Precautions:STORE IN DRY, COOL PLACE IN TIGHTLY CLOSED CONTAINER. GOOD HYGIENE SHOULD BE FOLLOWED.

Other Precautions:THIS MATERIAL IS INTENDED FOR LABORATORY USE ONLY. IT IS NOT SOLD OR INTENDED FOR DRUG, HOUSEHOLD OR OTHER USES.

=====  
Exposure Controls/Personal Protection  
=====

Respiratory Protection:NIOSH/MSHA APPROVED RESPIRATOR APPROPRIATE FOR EXPOSURE OF CONCERN .

Ventilation:LOCAL EXHAUST.

Protective Gloves:IMPERVIOUS GLOVES.

Eye Protection:SAFETY GLASSES.

Other Protective Equipment:NOT APPLICABLE.

Work Hygienic Practices:GOOD HYGIENE SHOULD BE FOLLOWED.

Supplemental Safety and Health  
NONE SPECIFIED BY MANUFACTURER.

=====  
Physical/Chemical Properties  
=====

Spec Gravity:1.31-1.32

Solubility in Water:INSOLUBLE

Appearance and Odor:OPAQUE PELLETS; ODORLESS.

=====  
Stability and Reactivity Data  
=====

Stability Indicator/Materials to Avoid:YES

OXIDIZERS.

Stability Condition to Avoid:NOT APPLICABLE.

Hazardous Decomposition Products:CARBON MONOXIDE & CARBON DIOXIDE.

=====  
Disposal Considerations  
=====

Waste Disposal Methods:LANDFILL IN ACCORDANCE W/STATE, FEDRERAL & LOCAL REGULATIONS.

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BEACON OIL CO -- Kerosine -- 9140-00-242-6749

=====  
Product Identification  
=====

Product ID:Kerosine  
MSDS Date:05/16/1988  
FSC:9140  
NIIN:00-242-6749  
MSDS Number: BWCWG  
=== Responsible Party ===  
Company Name:BEACON OIL CO  
Address:525 W THIRD ST  
City:HANFORD  
State:CA  
ZIP:93230-5016  
Country:US  
Info Phone Num:209-583-3304  
Emergency Phone Num:209-583-3304  
CAGE:4E189  
=== Contractor Identification ===  
Company Name:BEACON OIL CO  
Address:525 W THIRD ST  
Box:City:HANFORD  
State:CA  
ZIP:93230-5016  
Country:US  
Phone:209-583-3304  
CAGE:4E189

=====  
Composition/Information on Ingredients  
=====

Ingred Name:NO INGREDIENT FOR THIS FORMULATION\_INGREDIENT

=====  
Hazards Identification  
=====

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:PRODUCT IS IRRITATING TO BODY TISSUES.  
BREATHING VAPORS MAY PRODUCE CENTRAL NERVOUS SYSTEM DEPRESSION,  
AND PROLONGED AND/OR REPEATED SKIN CONTACT MAY CAUSE DERMATITIS.  
CHRONIC: REPETITIVE DIRECT SKI N APPLICATION CAN RESULT IN SKIN  
CANCERAND KIDNEY DAMAGE.

Explanation of Carcinogenicity:THE COMPONENTS OF THIS PRODUCT HAVE NOT

SHOWN ANY EVIDENCE OF BEING CARCINOGENIC.

Effects of Overexposure:EYE:IRRITATION, SKIN:MILD IRRITATION,POSSIBLE DERMATITIS WITH PROLONGED/REPEATED CONTACT. INHALED:RESPIRATORY IRRITATION, NAUSEA, DIZZINESS, HEADACHE. ASPIRATION OF LIQUID INTO LUNGS MAY CAUSE CHEMICAL PNEUMONIA. INGESTED:G/I IRRITATION,NAUSEA, VOMITING.

Medical Cond Aggravated by Exposure:PEOPLE WITH A SKIN DISORDER SHOULD USE EXTRA CAUTION TO AVOID SKIN CONTACT WHEN HANDLING OR USING THIS PRODUCT.

=====  
===== First Aid Measures =====

First Aid:EYE:FLUSH W/WATER 15 MIN, HOLD LIDS OPEN. SKIN:WASH WITH SOAP & WATER. REMOVE CONTAMINATED CLOTHING AND LAUNDRER BEFORE REUSE. INHALED:REMOVE TO FRESH AIR. RESTORE BREATHING IF NECESSARY. INGESTED:DO NOT INDUCE VOMITING.

=====  
===== Fire Fighting Measures =====

Flash Point Method:PMCC

Flash Point:110-162F

Lower Limits:0.7

Upper Limits:5.0

Extinguishing Media:USE HALON, WATER FOG, CARBON DIOXIDE, FOAM, OR DRY CHEMICAL.

Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A FULL FACED SELF CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH WATER SPRAY.

Unusual Fire/Explosion Hazard:COMBUSTION OR HEAT OF FIRE MAY PRODUCE HAZARDOUS DECOMPOSITION PRODUCTS AND VAPORS.

=====  
===== Accidental Release Measures =====

Spill Release Procedures:ELIMINATE SOURCES OF IGNITION. MINOR: ABSORB MATERIAL WITH CLAY, VERMICULITE, OR SIMILAR ABSORBENT MATERIAL. PLACE IN DISPOSAL CONTAINERS. MAJOR: DIKE & CONTAIN SPILL. SHUT OFF LEAKS. RECOVER LIQUID FOR RECLAIM. ABSORB REMAINDER FOR DISPOSAL.

=====  
===== Handling and Storage =====

Handling and Storage Precautions:STORE IN FLAMMABLE/COMBUSTIBLE LIQUIDS AREA. KEEP CONTAINERS CLOSED WHEN NOT IN USE.

Other Precautions:'EMPTY' CONTAINERS MAY CONTAIN RESIDUE OR VAPOR.

TREAT THEM WITH THE RESPECT DUE FULL ONES. DO NOT CUT,WELD,ETC. ON THEM. GROUND CONTAINERS BEFORE TRANSFERRING LIQUID. AVOID HAVING OPEN ELECTRICAL EQ UIPMENT IN VAPOR AREAS.

=====  
Exposure Controls/Personal Protection  
=====

Respiratory Protection:USE NIOSH/MSHA APPROVED AIR SUPPLIED RESPIRATOR OR RESPIRATOR FOR ORGANIC VAPOR IF EXPOSURE IS ABOVE THE TLV/PEL. SEE 29 CFR 1910.134 FOR REGULATIONS PERTAINING TO RESPIRATOR USE.

Ventilation:USE EXPLOSION PROOF LOCAL AND MECHANICAL EXHAUST TO MAINTAIN EXPOSURES BELOW PEL/TLV.

Protective Gloves:NEOPRENE, OR OTHER IMPERVIOUS

Eye Protection:USE CHEMICAL SAFETY GOGGLES & FACESHIELD

Other Protective Equipment:EYE WASH STATION & SAFETY SHOWER.

Work Hygienic Practices:USE GOOD CHEMICAL HYGIENE PRACTICES. AVOID PROLONGED/REPEATED CONTACT. DO NOT EAT, DRINK OR SMOKE IN WORK AREA.

Supplemental Safety and Health

NONE

=====  
Physical/Chemical Properties  
=====

HCC:F4

Boiling Pt:B.P. Text:350-513F

Vapor Pres:NIL

Spec Gravity:0.81-0.83

Solubility in Water:NEGLIGIBLE

Appearance and Odor:LIGHT YELLOW WITH CHARACTERISIC ODOR.

=====  
Stability and Reactivity Data  
=====

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZING AGENTS

Stability Condition to Avoid:HIGH HEAT, OPEN FLAMES AND OTHER SOURCES OF IGNITION

Hazardous Decomposition Products:SMOKE, CARBON MONOXIDE, CARBON DIOXIDE AND OTHER HYDROCARBON COMPOUNDS DURING COMBUSTION.

=====  
Disposal Considerations  
=====

Waste Disposal Methods:DISPOSE I/A/W ALL FEDERAL, STATE AND LOCAL REGULATIONS. DISPOSE OF PRODUCT AND CONTAMINATED MATERIALS AS EPA "IGNITABLE HAARDOUS WASTE" (D001).

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R J MCGLENNON CO INC -- T-92 MACLAC LACQUER RETARDER, 100-34 -- 6850-00N026924

=====  
Product Identification  
=====

Product ID:T-92 MACLAC LACQUER RETARDER, 100-34

MSDS Date:03/15/1990

FSC:6850

NIIN:00N026924

MSDS Number: BMDFY

=== Responsible Party ===

Company Name:R J MCGLENNON CO INC

Address:198 UTAH STREET

City:SAN FRANCISCO

State:CA

ZIP:94103

Country:US

Info Phone Num:415-552-0311

Emergency Phone Num:800-424-9300 (CHEMTREC)

Preparer's Name:VIC WOLFE

CAGE:IO093

=== Contractor Identification ===

Company Name:R J MCGLENNON CO INC

Address:198 UTAH STREET

Box:City:SAN FRANCISCO

State:CA

ZIP:94103

Country:US

Phone:415-552-0311

CAGE:IO093

Company Name:R. J. MCGLENNON CO INC

Address:198 UTAH STREET

Box:City:SAN FRANCISCO

State:CA

ZIP:94103

Country:US

Phone:415-552-0311

CAGE:MCGLE

=====  
Composition/Information on Ingredients  
=====

Ingred Name:ETHANOL, 2-BUTOXY-; (BUTOXYETHANOL). VP: 0.8

CAS:111-76-2

RTECS #:KJ8575000



Fraction by Wt: 55.2%  
OSHA PEL:S, 50 PPM  
ACGIH TLV:S, 25 PPM; 9293

Ingred Name:2-BUTANONE; (METHYL ETHYL KETONE). VP: 82.5  
CAS:78-93-3  
RTECS #:EL6475000  
Fraction by Wt: <10%  
OSHA PEL:200 PPM;300 PPM STEL  
ACGIH TLV:200 PPM;300 PPM STEL  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

Ingred Name:ACETIC ACID, BUTYL ESTER; (N-BUTYL ACETATE). VP: 7.8  
CAS:123-86-4  
RTECS #:AF7350000  
Fraction by Wt: <10%  
OSHA PEL:150 PPM;200 PPM STEL  
ACGIH TLV:150 PPM;200 PPM STEL  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

Ingred Name:ISOPROPYL ALCOHOL. VP: 33  
CAS:67-63-0  
RTECS #:NT8050000  
Fraction by Wt: <10%  
OSHA PEL:400 PPM;500 PPM STEL  
ACGIH TLV:400 PPM;500 PPM STEL

Ingred Name:ISOBUTYL ALCOHOL; (ISOBUTANOL). VP: 8.8  
CAS:78-83-1  
RTECS #:NP9625000  
Fraction by Wt: <5%  
OSHA PEL:100 PPM  
ACGIH TLV:50 PPM; 9293  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

Ingred Name:ALIPHATIC HYDROCARBON. VP: 2  
CAS:64742-89-8  
Fraction by Wt: 16%  
OSHA PEL:500 PPM (MFR)  
ACGIH TLV:500 PPM (MFR)

Ingred Name:TOLUENE (SARA III)  
CAS:108-88-3  
RTECS #:XS5250000  
Fraction by Wt: <10%  
OSHA PEL:200 PPM/150 STEL  
ACGIH TLV:50 PPM; 9293  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

Ingred Name:XYLENE. VP: 9  
CAS:1330-20-7  
RTECS #:ZE2100000  
Fraction by Wt: <5%  
OSHA PEL:100 PPM;150 PPM STEL  
ACGIH TLV:100 PPM;150 PPM STEL  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

=====  
Hazards Identification  
=====

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.  
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:INHAL: EXCESS INHAL OF VAPS CAN CAUSE  
NASAL & RESP IRRIT, DIZZ, WEAKNESS, FATG, NAUS, HDCH, POSS UNCON &  
EVEN ASPHY. EYE: CAN CAUSE SEV REDNESS, TEARING, BLURRED VISION.  
SKIN: PRLNGD/RPTD CONT CAN CAU SE MOD IRRIT, DEFAT, DERMAT. ANIMAL  
STUDIES CLEARLY DEMONSTRATED DOSE-RELATED ADVERSE EFTS ON CNS,  
(EFTS OF OVEREXP)

Explanation of Carcinogenicity:NOT RELEVANT  
Effects of Overexposure:HLTH HAZ: HEMATOPOIETIC TISS, BLOOD, KIDNEYS &  
LIVER, ASSOC W/ADMINISTRATION OF BUTOXYETHANOL. (EXTRACTED FROM  
DHHS (NIOSH) PUBLICATION NO. 90-118) . NIOSH STUDIES INDICATE  
BUTOXYETHANOL HAS CAU SED REPRO DISORDERS IN LAB ANIMALS & MAY HAVE  
THE POTENTIAL FOR CAUSING SIMILAR DISORDERS IN HUMANS .

Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

=====  
First Aid Measures  
=====

First Aid:INHAL: REMOVE FROM EXPOSURE, RESTORE BREATHING, OBTAIN  
SERVICES OF MD. EYE: FLUSH IMMEDIATELY WITH LARGE AMOUNTS OF WATER  
FOR AT LEAST 15 MINUTES AND TAKE TO MD. SKIN: WASH WITH MILD SOAP

AND WATER, A PPLY HAND CREAM. REMOVE CONTAM CLTHG IMMED AND LAUNDRER  
PRIOR TO REUSE. INGEST: CALL MD IMMEDIATELY .

=====  
Fire Fighting Measures  
=====

Flash Point Method:TCC

Flash Point:16.0F, -8.9C

Lower Limits:1%

Upper Limits:12%

Extinguishing Media:USE FOAM, CO2 OR DRY CHEMICAL EXTINGUISHERS OR  
EXTINGUISHING MEDIA.

Fire Fighting Procedures:WEAR NIOSH/MSHA APPRVD SCBA & FULL PROT EQUIP

Unusual Fire/Explosion Hazard:VAPS ARE HVR/AIR & MAY TRAVEL ALONG  
GROUND/ MAY BE MOVED BY VENT & SUBSEQUENTLY IGNITED BY PILOT  
LIGHTS, OTHER FLAMES, SPARKS, HEATERS, SMOKING, (SUPP DATA)

=====  
Accidental Release Measures  
=====

Spill Release Procedures:ELIMINATE ALL SOURCES OF IGNIT, VENTILATE  
AREA, CONTAIN & REMOVE WITH INERT ABSORBENT AND NON-SPARKING TOOLS.  
LARGE SPILLS SHOULD BE PUMPED INTO RECEPICLE USING EXPLOSION-PROOF  
PUMPS. ALL PERSONNEL I NVOLVED IN CLEANUP SHOULD BE WEARING PROT  
EQUIP.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

=====  
Handling and Storage  
=====

Handling and Storage Precautions:ALL CNTNRS SHOULD BE GROUNDED AND/OR  
BONDED WHEN MATL IS TRANSFERRED.

Other Precautions:KEEP CNTNRS CLSD AND IN AN UPRIGHT POSITION, AWAY  
FROM HEAT, SPARKS, FLAMES OR OTHER SOURCES OF IGNIT. EMPTY CNTNRS  
ARE LIKELY TO CONTAIN EXPLO CONC OF VAPS. DO NOT ATTEMPT TO CUT THE  
CNTNR WITH A TOR CH.

=====  
Exposure Controls/Personal Protection  
=====

Respiratory Protection:USE NIOSH/MSHA APPROVED CHEMICAL, MECHANICAL  
FILTER RESPIRATOR.

Ventilation:USE WITH ADEQUATE VENTILATION, 200 CFM MINIMUM.

Protective Gloves:PVC OR NEOPRENE GLOVES ARE REQ.

Eye Protection:CHEM WORK GOGG/FULL LENGTH FSHLD .

Other Protective Equipment:WEAR IMPERVIOUS CLOTHING AND BOOTS.

Work Hygienic Practices:NONE SPECIFIED BY MANUFACTURER.

Supplemental Safety and Health

EXPLO HAZ: ELECTRIC MOTORS, STATIC DISCHARGE OR OTHER IGNITION SOURCES  
AT LOCATIONS DISTANT FROM MATL HANDLING POINT.

=====  
Physical/Chemical Properties  
=====

HCC:F3

Boiling Pt:B.P. Text:171F,77C

Vapor Pres:SEE INGRED

Vapor Density:HVR/AIR

Spec Gravity:0.845

Evaporation Rate & Reference:SLOWER THAN ETHER

Solubility in Water:NOT APPLICABLE.

Appearance and Odor:CLEAR LIQUID WITH MODERATE ESTER ODOR.

Percent Volatiles by Volume:99.96

=====  
Stability and Reactivity Data  
=====

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZERS, ACIDS AND BASES. ALL SOURCES OF IGNITION.

Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER.

Hazardous Decomposition Products:MAY FORM HAZARDOUS MATERIALS; CO<sub>2</sub>, CO  
OR VARIOUS OTHER HYDROCARBONS.

=====  
Disposal Considerations  
=====

Waste Disposal Methods:DISPOSE OF MATERIAL IN ACCORDANCE WITH LOCAL,  
STATE AND FEDERAL REGULATIONS AND RECOMMENDATIONS.

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of Defense. The United States of America in no manner whatsoever,  
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document should seek competent professional advice to verify and  
assume responsibility for the suitability of this information to their  
particular situation.

SHERWIN-WILLIAMS CO -- R7 K 27, OPEX LACQUER RETARDER THINNER -- 8010-00N032222

=====  
Product Identification  
=====

Product ID:R7 K 27, OPEX LACQUER RETARDER THINNER

MSDS Date:01/16/1987

FSC:8010

NIIN:00N032222

MSDS Number: BPKGS

=== Responsible Party ===

Company Name:SHERWIN-WILLIAMS CO

Address:101 PROSPECT AVE NW

City:CLEVELAND

State:OH

ZIP:44115

Country:US

Info Phone Num:216-566-2902

Emergency Phone Num:216-566-2917

CAGE:54636

=== Contractor Identification ===

Company Name:SHERWIN-WILLIAMS CO THE

Address:101 PROSPECT AVE NW

Box:City:CLEVELAND

State:OH

ZIP:44115-1042

Country:US

Phone:800-251-2486/216-566-2242

CAGE:54636

=====  
Composition/Information on Ingredients  
=====

Ingred Name:ISOBUTYL ALCOHOL (SARA III). VP: 8.7.

CAS:78-83-1

RTECS #:NP9625000

Fraction by Wt: 10%

OSHA PEL:100 PPM

ACGIH TLV:50 PPM; 9293

EPA Rpt Qty:5000 LBS

DOT Rpt Qty:5000 LBS

Ingred Name:ETHANOL, 2-BUTOXY-; (2-BUTOXYETHANOL). VP: 0.6.

CAS:111-76-2

RTECS #:KJ8575000  
Fraction by Wt: 20%  
OSHA PEL:S, 50 PPM  
ACGIH TLV:S, 25 PPM; 9293

Ingred Name:2-HEPTANONE; (METHYL N-AMYL KETONE). VP: 2.1.  
CAS:110-43-0  
RTECS #:MJ5075000  
Fraction by Wt: 25%  
OSHA PEL:100 PPM  
ACGIH TLV:50 PPM

Ingred Name:SUPP DATA: WITH ADMINISTRATION OF 2 BUTOXYETHANOL.  
(EXTRACTED FROM DHHS (NIOSH) PUBLICATION NO. 90-118) .  
RTECS #:9999999ZZ

Ingred Name:OTHER PREC:KEEP CNTNR CLSD WHEN NOT IN USE. TRANSFER ONLY  
TO APPRVD CNTNRS W/COMPLETE & APPROP LBLG.DO NOT TAKE (ING 10)  
RTECS #:9999999ZZ

Ingred Name:ING 9: INTERNALLY. KEEP OUT OF REACH OF CHILDREN.  
INTENTIONAL MISUSE BY DELIBERATELY CONC & INHAL CONTENTS CAN (ING  
11)  
RTECS #:9999999ZZ

Ingred Name:ING 10: BE HARMFUL OR FATAL.  
RTECS #:9999999ZZ

Ingred Name:VM & P NAPHTHA. VP: 12.0.  
CAS:64742-48-9  
Fraction by Wt: 15%  
OSHA PEL:300 PPM;400 PPM STEL  
ACGIH TLV:300 PPM

Ingred Name:MINERAL SPIRITS. VP: 2.0.  
CAS:64742-47-8  
Fraction by Wt: 15%  
OSHA PEL:500 PPM (MFR)  
ACGIH TLV:100 PPM (MFR)

Ingred Name:TOLUENE (SARA III). VP: 22.0.  
CAS:108-88-3  
RTECS #:XS5250000

Fraction by Wt: 10%  
OSHA PEL:200 PPM/150 STEL  
ACGIH TLV:50 PPM; 9293  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

Ingred Name:XYLENE. VP: 5.9.  
CAS:1330-20-7  
RTECS #:ZE2100000  
Fraction by Wt: <5%  
OSHA PEL:100 PPM;150 PPM STEL  
ACGIH TLV:100 PPM;150 PPM STEL  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

=====  
Hazards Identification  
=====

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.  
Routes of Entry: Inhalation:YES Skin:NO Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:ACUTE: OVEREXP CAUSES EYE, SKIN & RESP  
IRRIT. MAY CAUSE NERV SYS DEPRESS ACCOMPANIED BY HDCH, DIZZ, NAUS,  
CONFUSN & STAG GAIT. EXTREME OVEREXP MAY RSLT IN UNCON & POSS  
DEATH. CHRONIC: PRLNGD OVEREXP T O INGREDIENTS MAY CAUSE ADVERSE EFTS  
TO LIVER, URINARY, BLOOD FORMING, CARDIO-VASCULAR, & REPROD SYS.  
RPTS (EFTS OF OVEREXP)  
Explanation of Carcinogenicity:NOT RELEVANT.  
Effects of Overexposure:HLTH HAZ:HAVE ASSOC RPTD & PRLNGD OVEREXP TO  
SOLV W/PERM BRAIN & NERV SYS DMG. NOTE: TOLUENE 108-88-3 APPEARS ON  
NAVY LISTING OF OCCUP REPROD HAZ. SEEK CONSULTATION FROM APPROP  
HLTH PROFESSIONALS CONC ERNING LATEST HAZ LIST INFO & SAFE HNDLG &  
EXPOS RECOM . ANIMAL STUDIES CLEARLY DEMONSTRATED DOSE-RELATED  
(SUPDAT)  
Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

=====  
First Aid Measures  
=====

First Aid:INHALATION: REMOVE FROM EXPOSURE. RESTORE BREATHING. KEEP  
WARM AND QUIET. SKIN: WASH AFFECTED AREA THORO WITH SOAP AND WATER.  
REMOVE CONTAM CLOTHING AND LAUNDRER BEFORE RE-USE. EYES: FLUSH WITH  
LARGE A MOUNTS OF WATER FOR AT LEAST 15 MINUTES. GET MEDICAL  
ATTENTION. INGESTION: NEVER GIVE ANYTHING BY MOUTH TO AN  
UNCONSCIOUS PERSON. DO NOT INDUCE VOMITING. GIVE SEVERAL GLASSES OF

H2O. SEEK MED ATTN.

=====  
Fire Fighting Measures  
=====

Flash Point Method:TCC

Flash Point:74.0F,23.3C

Lower Limits:0.9%

Extinguishing Media:CARBON DIOXIDE, DRY CHEMICAL, FOAM.

Fire Fighting Procedures:WEAR NIOSH/MSHA APPRVD SCBA & FULL PROT  
EQUIP.H2O SPRAY MAY BE INEFT.IF H2O IS USED, FOG NOZ ARE PREF.H2O  
MAY BE USED TO COOL CLSD CNTNRS TO (SUPDAT)

Unusual Fire/Explosion Hazard:KEEP CNTNRS TIGHTLY CLSD.ISOLATE FROM  
HEAT, ELEC EQUIP,SPARKS,& OPEN FLAME. CLSD CNTNRS MAY EXPLO WHEN  
EXPOS TO EXTREME HEAT.APPLIC TO HOT SURFS REQS (SUPDAT)

=====  
Accidental Release Measures  
=====

Spill Release Procedures:REMOVE ALL SOURCES OF IGNITION. VENTILATE AND  
REMOVE WITH INERT ABSORBENT.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

=====  
Handling and Storage  
=====

Handling and Storage Precautions:CONTENTS ARE FLAMMABLE. KEEP AWAY FROM  
HEAT, SPARKS, AND OPEN FLAME.

Other Precautions:DURING USE & UNTIL ALL VAPS ARE GONE:KEEP AREA  
VENT-DO NOT SMOKE-EXTING ALL FLAMES,PILOT LIGHTS,& HEATERS-TURN OFF  
STOVES,ELEC TOOLS & APPLIANCES,& ANY OTHER SOURCES OF IGNIT.  
CONSULT NFPA CODE. USE A PPRVD BONDING & GROUNDING PROC. (ING 9)

=====  
Exposure Controls/Personal Protection  
=====

Respiratory Protection:IF PERSONAL EXPOSURE CANNOT BE CONTROLLED BELOW  
APPLICABLE LIMITS BY VENTILATION, WEAR NIOSH/MSHA APPROVED  
RESPIRATORY DEVICE FOR PROTECTION AGAINST MATERIALS IN INGREDIENTS  
SECTION.

Ventilation:LOC EXHST PREF. GEN EXHAUST ACCEPTABLE IF EXPOSURE TO  
MATERIALS IN INGREDIENTS SEC IS MAINTAINED BELOW APPLIC EXPOS LIMITS.

Protective Gloves:IMPERVIOUS GLOVES .

Eye Protection:CHEMICAL WORKERS GOGGLES .

Other Protective Equipment:NONE SPECIFIED BY MANUFACTURER.

Work Hygienic Practices:USE ONLY WITH ADEQ VENT. AVOID BREATHING VAPOR  
AND SPRAY MIST. AVOID CONTACT WITH SKIN & EYES. WASH HANDS AFTER



USING.

Supplemental Safety and Health

FIRE FIGHT PROC: PVNT PRESS BUILD-UP & POSS AUTOIGNIT/EXPLO WHEN EXPOS TO EXTREME HEAT. EXPLO HAZ:SPECIAL PREC. DURING EMER CNDTNS OVEREXP TO DECOMP PRODS MAY CAUSE HLTH HAZ. SYMP MAY NOT BE IMMED APPARENT. OBTAIN MED ATTN. EFTS OF OVEREXP: ADVERSE EFTS ON CNS, HEMATOPOIETIC TISS, BLOOD, KIDNEYS & LIVER, ASSOC (ING 8)

===== Physical/Chemical Properties =====

HCC:F4

Boiling Pt:B.P. Text:222F,106C

Vapor Pres:SEE INGRED

Vapor Density:HVR/AIR

Spec Gravity:0.811

Evaporation Rate & Reference:SLOWER THAN ETHER

Appearance and Odor:NONE SPECIFIED BY MANUFACTURER.

Percent Volatiles by Volume:100

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

NONE SPECIFIED BY MANUFACTURER.

Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER.

Hazardous Decomposition Products:BY FIRE: CO2, CO.

===== Disposal Considerations =====

Waste Disposal Methods:WASTE FROM PROD MAY BE HAZ AS DEFINED UNDER RCRA 40 CFR 261. WASTE MUST BE TESTED FOR IGNITABILITY TO DETERMINE APPLIC EPA HAZ WASTE NUMBERS. INCIN IN APPRVD FACILITY. DO NOT INCIN CLSD CNTNR. DISP OF I/A/W FEDERAL, ST,& LOC REGS REGARDINGPOLLUTION.

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LONE STAR INDUSTRIES INC -- PORTLAND CEMENT

MSDS Safety Information

FSC: 5610
NIIN: 00-242-3792
MSDS Date: 08/10/1994
MSDS Num: CHKFN
Product ID: PORTLAND CEMENT
MFN: 01
Responsible Party
Cage: LONES
Name: LONE STAR INDUSTRIES INC
Address: 8902 VINCENNES CIRCLE SUITE A
Box: 681250
City: INDIANAPOLIS IN 46268-1250
Info Phone Number: 800-782-7236
Emergency Phone Number: 317-653-6766
Published: Y

Contractor Summary

Cage: LONES
Name: LONE STAR INDUSTRIES INC
Box: 681250
City: INDIANAPOLIS IN 46268-1250
Phone: 713-875-5005
Cage: LSTAR
Name: LONE STAR INDUSTRIES INC
Address: UNKNOWN
Box: UNKNOW
City: UNKNOWN NK 00000
Phone: UNKNOWN

Item Description Information

Item Manager: GSA
Item Name: CEMENT, PORTLAND
Unit of Issue: BG
Quantitative Expression: 00000000094LB
UI Container Qty: 0

Ingredients

Cas: 12168-85-3
Name: TRICALCIUM SILICATE; (3CAO.SIO\*2)
OSHA PEL: N/K (FP N)

ACGIH TLV: N/K (FP N)

Cas: 10034-77-2

Name: DICALCIUM SILICATE; (2CAO.SIO\*2)

OSHA PEL: N/K (FP N)

ACGIH TLV: N/K (FP N)

Cas: 12042-78-3

Name: TRICALCIUM ALUMINATE; (3CAO.AL\*2O\*3)

OSHA PEL: N/K (FP N)

ACGIH TLV: N/K (FP N)

Cas: 12068-35-8

Name: TETRACALCIUM ALUMINOFERRATE; (CALCIUM ALUMINOFERRITE, A SOLID SOLUTION)

OSHA PEL: N/K (FP N)

ACGIH TLV: N/K (FP N)

Cas: 13397-24-5

RTECS #: MG2360000

Name: GYPSUM; (CASO\*4-2H\*2O)

OSHA PEL: N/K (FP N)

ACGIH TLV: N/K (FP N)

Name: HYDRATED LIME

OSHA PEL: N/K (FP N)

ACGIH TLV: N/K (FP N)

Cas: 1305-78-8

RTECS #: EW3100000

Name: CALCIUM OXIDE; (CAO)

OSHA PEL: 5 MG/M3

ACGIH TLV: 2 MG/M3

Cas: 1309-48-4

RTECS #: OM3850000

Name: MAGNESIUM OXIDE; (MGO)

OSHA PEL: 15 MG/M3 PARTICULATE

ACGIH TLV: 10 MG/M3 FUME

Cas: 7757-82-6

RTECS #: WE1650000

Name: SODIUM SULFATE; (NA\*2SO\*4)

OSHA PEL: N/K (FP N)

ACGIH TLV: N/K (FP N)

Cas: 7778-80-5

RTECS #: TT5900000

Name: POTASSIUM SULFATE; (K\*2SO\*4)

OSHA PEL: N/K (FP N)  
ACGIH TLV: N/K (FP N)

-----  
Name: PORTLAND CEMENT MAY CONTAIN INGREDIENT 12 - 14.

OSHA PEL: N/K (FP N)  
ACGIH TLV: N/K (FP N)

-----  
Name: INSOLUBLE MATTER; (INSOLUBLE RESIDUE)

% Wt: 0.75  
OSHA PEL: N/K (FP N)  
ACGIH TLV: N/K (FP N)

-----  
Cas: 60676-86-0  
RTECS #: VV7328000  
Name: SILICA, CRYSTALLINE-FUSED; (FREE CRYSTALLINE SILICA)

% Wt: 0.1  
OSHA PEL: N/K (FP N)  
ACGIH TLV: N/K (FP N)

-----  
Cas: 7440-47-3  
RTECS #: GB4200000  
Name: CHROMIUM (SARA 313) (CERCLA)

% Wt: TRACE  
OSHA PEL: 1 MG/M3  
ACGIH TLV: 0.5 MG/M3  
EPA Rpt Qty: 1 LB  
DOT Rpt Qty: 1 LB

=====  
Health Hazards Data

=====  
LD50 LC50 Mixture: NONE SPECIFIED BY MANUFACTURER.  
Route Of Entry Inds - Inhalation: YES  
Skin: YES  
Ingestion: YES  
Carcinogenicity Inds - NTP: NO  
IARC: YES  
OSHA: NO

Effects of Exposure: ACUTE:WET PORTLAND CEMENT LIME BLEND, ESPECIALLY AS INGREDIENT IN PLASTIC (UNHARDENED) CONCRETE, MORTAR OR SLURRIES, CAN DRY SKIN AND CAUSE SEVERE ALKALI BURNS. PORTLAND/LIME DUST CAN IRRITATE EYES AND UPPER RESPIRATORY SYSTEM. CHRONIC:PORTLAND CEMENT LIME BLEND DUST CAN CAUSE INFLAMMATION OF LINING (EFTS OF OVEREXP)

Explanation Of Carcinogenicity: CRYSTALLINE SILICA-FUSED:IARC MONOGRAPHS, SUPPLEMENT, VOL 7, PG 341, 1987:GROUP 2A.

Signs And Symptions Of Overexposure: HLTH HAZ:TISSUE OF INTERIOR OF NOSE AND INFLAMMATION OF CORNEA. INDIVIDUALS WHO ARE ALLERGIC TO CHROMIUM MAY DEVELOP AN ALLERGIC DERMATITIS. FREE CRYSTALLINE SILICA CAN CAUSE CANCER. EXPOSURE TO PORTL AND/LIME CEMENT CAN AFFECT THE SKIN, EYES AND MUCOUS MEMBRANES.

Medical Cond Aggravated By Exposure: NONE SPECIFIED BY MANUFACTURER.

First Aid: INGEST:CALL MD IMMEDIATELY (FP N). INHAL:REMOVE TO FRESH AIR. SUPPORT BREATHING (GIVE O\*2/ARTF RESP) (FP N). EYES:IRRIGATE (FLOOD) IMMEDIATELY & REPEATEDLY W/CLEAN WATER FOR AT LEAST 15 MINUTES. GET PROMPT MEDICAL ATTENTION. SKIN:WASH EXPOSED AREAS W/SOAP & WATER. APPLY STERILE DRESSINGS. GET PROMPT MEDICAL ATTENTION.

=====  
Handling and Disposal  
=====

Spill Release Procedures: IF PORTLAND CEMENT LIME BLEND IS SPILLED, IT CAN BE CLEANED UP USING DRY METHODS THAT DO NOT DISPERSE DUST INTO THE AIR. AVOID BREATHING DUST. EMERGENCY PROCEDURES ARE NOT REQUIRED.

Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

Waste Disposal Methods: DISPOSAL MUST BE I/A/W FEDERAL, STATE & LOCAL REGULATIONS (FP N). PORTLAND CEMENT LIME BLEND CAN BE TREATED AS A COMMON WASTE FOR DISPOSAL, OR RETURNED TO CONTAINER FOR LATER USE IF IT IS NOT CONTAMINATED OR WET.

Handling And Storage Precautions: NONE SPECIFIED BY MANUFACTURER.

Other Precautions: NONE SPECIFIED BY MANUFACTURER.  
=====

Fire and Explosion Hazard Information  
=====

Extinguishing Media: MEDIA SUITABLE FOR SURROUNDING FIRE (FP N).

Fire Fighting Procedures: USE NIOSH APPROVED SCBA & FULL PROTECTIVE EQUIPMENT (FP N).

Unusual Fire/Explosion Hazard: PORTLAND CEMENT LIME BLEND IS NON-COMBUSTIBLE & NOT EXPLOSIVE. THEREFORE THERE ARE NO FLAMMABLE OR EXPLOSIVE LIMITS NOR UNUSUAL FIRE & EXPLOSION HAZARDS.  
=====

Control Measures  
=====

Respiratory Protection: IN DUSTY ENVIRONMENTS, THE USE OF A NIOSH APPROVED RESPIRATOR IS RECOMMENDED.

Ventilation: LOCAL EXHAUST CAN BE USED, IF NECESSARY, TO CONTROL AIRBORNE DUST LEVELS.

Protective Gloves: IMPERVIOUS GLOVES.

Eye Protection: ANSI APPROVED CHEM WORKERS GOGGS (FP N).

Other Protective Equipment: ANSI APPROVED EYE WASH FOUNTAIN & DELUGE SHOWER (FP N). USE OF BARRIER CREAMS, BOOTS & CLTHG TO PROT SKIN FROM (SUPDAT)

Work Hygienic Practices: FOLLOWING WORK W/PORTLAND CEMENT LIME BLEND, WORKERS SHOULD SHOWER W/SOAP & WATER.

Supplemental Safety and Health: MATLS TO AVOID:REACT IN WET MORTAR OR CONCRETE, LIBERATING HYDROGEN GAS. OTHER PROT EQUIP:CONTACT W/WET PORTLAND CEMENT IS RECOMMENDED.  
=====

Physical/Chemical Properties  
=====

Spec Gravity: 2.98-3.05

Solubility in Water: SLIGHT (0.1-1%)

Appearance and Odor: GRAY COLORED POWDER W/NO ODOR.

=====

Reactivity Data

=====

Stability Indicator: YES

Stability Condition To Avoid: KEEP PORTLAND CEMENT LIME BLEND DRY UNTIL USED TO PRESERVE PRODUCT UTILITY.

Materials To Avoid: PORTLAND CEMENT LIME BLEND IS INCOMPAT W/ALUMINUM POWDER & OTHER ALKALI & ALKALINE EARTH ELEMENTS WHICH CAN (SUPP DATA)

Hazardous Decomposition Products: HYDROGEN GAS.

Hazardous Polymerization Indicator: NO

Conditions To Avoid Polymerization: NOT RELEVANT

=====

Toxicological Information

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=====

Ecological Information

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=====

MSDS Transport Information

=====

=====

Regulatory Information

=====

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Other Information

=====

=====

Transportation Information

=====

Responsible Party Cage: LONES

Trans ID NO: 59906

Product ID: PORTLAND CEMENT

MSDS Prepared Date: 08/10/1994

Review Date: 10/19/1998

MFN: 1

Multiple KIT Number: 0

Review IND: Y

Unit Of Issue: BG

Container QTY: 0

=====

Detail DOT Information

=====

DOT PSN Code: ZZZ

DOT Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION

=====

Detail IMO Information

=====

IMO PSN Code: ZZZ

IMO Proper Shipping Name: NOT REGULATED FOR THIS MODE OF TRANSPORTATION

=====

Detail IATA Information

=====

IATA PSN Code: ZZZ

IATA Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION

=====

Detail AFI Information

=====

AFI PSN Code: ZZZ

AFI Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION

=====

HAZCOM Label

=====

Product ID: PORTLAND CEMENT

Cage: LONES

Assigned IND: Y

Company Name: LONE STAR INDUSTRIES INC

PO Box: 681250

City: INDIANAPOLIS IN

Zipcode: 46268-1250

Health Emergency Phone: 317-653-6766

Label Required IND: Y

Date Of Label Review: 07/01/1998

Status Code: C

Label Date: 07/01/1998

Origination

Chronic Hazard IND: Y

Eye Protection IND: YES

Skin Protection IND: YES

Signal Word: WARNING

Respiratory Protection IND: YES

Health Hazard: Moderate

Contact Hazard: Moderate

Fire Hazard: None

Reactivity Hazard: None

Hazard And Precautions: ACUTE:WET PORTLAND CEMENT LIME BLEND, ESPECIALLY AS INGREDIENT IN PLASTIC (UNHARDENED) CONCRETE, MORTAR OR SLURRIES, CAN DRY SKIN AND CAUSE SEVERE ALKALI BURNS. PORTLAND/LIME DUST CAN IRRITATE EYES AND UPPER RESPIRATORY SYSTEM. CHRONIC:CANCER HAZARD. CONTAINS CRYSTALLINE SILICA WHICH IS LISTED AS AN ANIMAL LUNG CARCINOGEN (FP N). PORTLAND CEMENT LIME BLEND DUST CAN CAUSE INFLAMMATION OF LINING TIS SUE OF INTERIOR OF NOSE AND INFLAMMATION OF CORNEA. MAY CAUSE ALLERGIC DERMATITIS.

=====

Disclaimer (provided with this information by the compiling agencies): This information is formulated for use by elements of the Department of Defense.

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07/02/97

ROCKY HILL, CONNECTICUT 06067  
EMERGENCY PHONE: (860) 571-5100

MATERIAL SAFETY DATA SHEET

Page 01 of 05

Superflex(TM) Silicone Adh/Slnt (Clear)  
59530

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Superflex(TM) Silicone Adh/Slnt (Clear)  
Item No.: 59530  
Product Type: Silicone

2. COMPOSITION, INFORMATION ON INGREDIENTS

Ingredients	CAS No.	%
Poly(dimethylsiloxane), dimethyl	63148-62-9	85-90
SILICA, AMORPHOUS, FUMED, CRYSTALLINE-FREE	112945-52-5	5-10
Ethyltriacetoxysilane	17689-77-9	1-5
Methyltriacetoxysilane	4253-34-3	1-5
ACETIC ACID	64-19-7	***

\*\*\*When this product is exposed to moisture, 3-5% acetic acid is formed.

Ingredients which have exposure limits

Exposure Limits (TWA) Ingredients	ACGIH (TLV)	OSHA (PEL)	OTHER
SILICA, AMORPHOUS, FUMED, CRYSTALLINE-FREE	10 mg/m3 TWA	6 mg/m3 TWA	3 mg/m3 TWA resp. dust
ACETIC ACID	10 ppm TWA 25 mg/m3	10 ppm TWA 25 mg/m3	None

Exposure Limits (STEL) Ingredients	ACGIH (TLV)	OSHA (PEL)

ACETIC ACID 15 ppm None  
37 mg/m3

3. HAZARDS IDENTIFICATION

Toxicity: Eye and skin irritant. Oral LD50 = 2060 mg/kg.  
Moderate by ingestion.  
Primary Routes of Entry: SKIN, INGESTION, INHALATION  
Signs and symptoms of Exposure: Acetic acid produced during cure irritates eyes, nose, and throat.  
PROLONGED OR REPEATED CONTACT MAY IRRITATE SKIN.

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MATERIAL SAFETY DATA SHEET

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Product Name: Superflex(TM) Silicone Adh/Slnt (Clear)  
Item No.: 59530

3. HAZARDS IDENTIFICATION

(continued)

Existing Conditions

Aggravated by Exposure: Methyltriacetoxysilane: Eye, skin, and pulmonary disorders.

Ingredients	Literature Referenced Target Organ and Other Health Effects	Carcinogen		
		NTP	IARC	OSHA
Poly(dimethylsiloxane), dimethyl	IRR	NO	NO	NO
SILICA, AMORPHOUS, FUMED, CRYSTALLINE-FREE	NUI	NO	N/A	NO
Ethyltriacetoxysilane	No Data	NO	NO	NO
Methyltriacetoxysilane	No Data	NO	NO	NO
ACETIC ACID	COR EYE GAS IMM IRR	NO	NO	NO

Abbreviations

N/A Not Applicable  
EYE Eyes  
IMM Immune system  
NUI Nuisance dust

COR Corrosive  
GAS Gastrointestinal  
IRR Irritant

4. FIRST AID MEASURES

Ingestion: Do not induce vomiting. Keep individual calm. Obtain medical attention.  
Inhalation: Remove to fresh air. Treat symptomatically.  
Skin Contact: Wipe off paste with paper towel or cloth. Wash exposed area with soap and water.  
Eye Contact: Flush at least 15 minutes with water. Obtain medical attention.

5. FIRE FIGHTING MEASURES

Flash Point: More than 200°F Method: Tag Closed Cup  
Recommended  
Extinguishing Agents: Carbon dioxide, foam, dry chemical  
Hazardous Products formed  
by Fire or Thermal Decomp Acetic acid, formaldehyde, silica fume.  
Unusual Fire or  
Explosion Hazards: None  
  
Explosive Limits:  
(% by volume in air) Lower Acetic acid: 4%  
(% by volume in air) Upper Acetic acid: 19.9% at 200°F.

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MATERIAL SAFETY DATA SHEET

Page 03 of 05

Product Name: Superflex(TM) Silicone Adh/Slnt (Clear)  
Item No.: 59530

6. ACCIDENTAL RELEASE MEASURES

Steps to be taken in case of spill or leak:

Wipe or scrape up spilled material. Maintain good ventilation for large spills. Place scrap material in a well ventilated place and allow to cure to rubber.

## 7. HANDLING AND STORAGE

Safe Storage:

Store in a dry area below 90°F. Keep container closed when not in use.

(Contact Loctite Customer Handling:

Service 1-800-243-4874 for shelf Life information)  
Avoid breathing vapor. Avoid eye or skin contact. Acetic acid vapor released during application and cure. Do not wear contact lenses while applying material. Vapor may be trapped under lens.

## 8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Eyes:

Safety glasses or goggles.

Skin:

Rubber or plastic gloves.

Ventilation:

Provide local ventilation for prolonged use in confined area.

See Section 2 for Exposure Limits.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Clear paste

Odor:

Sharp, Irritating

Boiling Point:

Not Applicable, Polymeric material

pH:

Does not apply

Solubility in Water:

Polymerized

Specific Gravity

1.01

Volatile Organic Compound

(EPA Method 24)

4.7%; 47.47 g/l

Vapor Pressure:

10mm at 80°F

Vapor Density:

Not available

Evaporation Rate

(Ether = 1)

Not available

## 10. STABILITY AND REACTIVITY

Stability:

Stable

Hazardous Polymerization:

Will not occur

Incompatibility:

Polymerized by contact with moisture. Acetic acid liberated.

Conditions to Avoid:

Not available

LOCTITE CORPORATION

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ROCKY HILL, CONNECTICUT 06067  
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MATERIAL SAFETY DATA SHEET

Page 04 of 05

Product Name: Superflex(TM) Silicone Adh/Slnt (Clear)  
Item No.: 59530

10. STABILITY AND REACTIVITY

(continued)

Hazardous Decomposition  
Products (non-thermal): None

11. TOXICOLOGICAL INFORMATION

See Section 3.

12. ECOLOGICAL INFORMATION

No data available

13. DISPOSAL CONSIDERATIONS

Recommended methods of  
disposal: Cured rubber scrap can be incinerated. Follow EPA  
and local regulations.

EPA Hazardous Waste  
Number NH - Not a RCRA Hazardous Waste Material

14. TRANSPORTATION INFORMATION

DOT (49 CFR 172)  
Domestic Ground Transport  
Proper Shipping Name: Unrestricted  
Hazard Class or  
Division: Unrestricted  
Identification Number: None  
Marine Pollutant: None

IATA

Proper Shipping Name: Unrestricted  
Class or Division: Unrestricted  
UN or ID Number: None

15. REGULATORY INFORMATION

CA Proposition 65: No California Proposition 65 chemicals are known to be present.

16. OTHER INFORMATION

Estimated NFPA(R) Code:  
Health Hazard: 2  
Fire Hazard: 1  
Reactivity Hazard: 1  
Specific Hazard: Does not apply

Estimated HMIS(R) Code:  
Health Hazard: 2

LOCTITE CORPORATION

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MATERIAL SAFETY DATA SHEET

Page 05 of 05

Product Name: Superflex(TM) Silicone Adh/Slnt (Clear)  
Item No.: 59530

16. OTHER INFORMATION

(continued)

Flammability Hazard: 1  
Reactivity Hazards: 1  
Personal Protection: See Section 8.

NFPA is a registered trademark of the National Fire Protection Assn.  
HMIS is a registered trademark of the National Paint and Coatings Assn.

Prepared By: Stephen Repetto  
Title: Research Chemist, Environmental Health & Safety  
Company: Loctite Corp., 1001 Tr Br Cr, Rocky Hill CT 06067  
(24hr.) Phone: (860) 571-5100

Revision Date:

January 22, 1996

Revision: 0032

PERMATEX INDUSTRIAL CORPORATION

07/02/97

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TELEPHONE: (860) 571-5100

MATERIAL SAFETY DATA SHEET

Page 01 of 05

Pipe Joint Compound

80044

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Pipe Joint Compound  
 Item No.: 80044  
 Part No.: 51H  
 Product Type: Sealant

2. COMPOSITION, INFORMATION ON INGREDIENTS

Ingredients	CAS No.	%
Clay	1332-58-7	30-35
Vegetable oil	68439-93-0	20-25
ISOPROPYL ALCOHOL	67-63-0	15-20
Rosin	8050-09-7	15-20
TALC	14807-96-6	5-10
Soybean derivative	8002-43-5	1-3
CARBON BLACK	1333-86-4	0.1-1

Ingredients which have exposure limits

Exposure Limits (TWA) Ingredients	ACGIH (TLV)	OSHA (PEL)	OTHER
Clay	2 mg/m3 dust	10 mg/m3 dust 5 mg/m3 respir.	None
Vegetable oil	10 mg/m3 mist	15mg/m3mistdust 5mg/m3mist resp	None
ISOPROPYL ALCOHOL	400 ppm TWA	400 ppm TWA	None
TALC	983 mg/m3 2 mg/m3 TWA	980 mg/m3 2 mg/m3 TWA	None
CARBON BLACK	respirable dust 3.5 mg/m3 TWA	respirable dust 3.5 mg/m3 TWA	5ppm

Exposure Limits (STEL)	ACGIH	OSHA
------------------------	-------	------



Ingredients	(TLV)	(PEL)
ISOPROPYL ALCOHOL	500 ppm 1230 mg/m3	500 ppm 1225 mg/m3

3. HAZARDS IDENTIFICATION

Toxicity: Eye irritant.  
Oral LD50 greater than 5000 mg/kg (estimated)

Primary Routes of Entry: Inhalation, ingestion, contact.

Signs and symptoms of Exposure: Vapor above TLV is irritating to eyes, nose, and throat and can cause headache, nausea, and

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MATERIAL SAFETY DATA SHEET

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Product Name: Pipe Joint Compound  
Item No.: 80044

3. HAZARDS IDENTIFICATION

(continued)

dizziness.

Existing Conditions

Aggravated by Exposure: Skin, eye, and respiratory disorders.

Ingredients	Literature Referenced Target Organ and Other Health Effects	Carcinogen		
		NTP	IARC	OSHA
Clay	AC4 NUI	NO	NO	NO
Vegetable oil	No Data	NO	NO	NO
ISOPROPYL ALCOHOL	ALG CNS IRR	NO	N/A	NO
Rosin	ACS ALG IRR RES	NO	NO	NO
TALC	AC4 IRR LUN	NO	N/A	NO
Soybean derivative	No Data	NO	NO	NO
CARBON BLACK	AC4 RES	NO	2B	NO

Abbreviations

N/A Not Applicable  
ACS ACGIH sensitizer  
ALG Allergen  
IRR Irritant  
NUI Nuisance dust

2B Possibly carcinogenic to humans  
AC4 ACGIH-Unclassifiable as human carc.  
CNS Central nervous system  
LUN Lung  
RES Respiratory

4. FIRST AID MEASURES

Ingestion: Do not induce vomiting. Keep individual calm. Obtain medical attention.  
Inhalation: Remove to fresh air. If symptoms persist, obtain medical attention.  
Skin Contact: Wash with soap and water.  
Eye Contact: Flush at least 15 minutes with water. Obtain medical attention.

5. FIRE FIGHTING MEASURES

Flash Point: 76°F Method: Tag closed cup  
Recommended  
Extinguishing Agents: Carbon dioxide, foam, dry chemical  
Hazardous Products formed  
by Fire or Thermal Decomp Aliphatic aldehydes, carboxylic acids, oxides of carbon.  
Unusual Fire or  
Explosion Hazards: None  
Explosive Limits:

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MATERIAL SAFETY DATA SHEET

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Product Name: Pipe Joint Compound  
Item No.: 80044

5. FIRE FIGHTING MEASURES

(continued)

(% by volume in air) Lower 2.3 %  
(% by volume in air) Upper 12.7 %

## 6. ACCIDENTAL RELEASE MEASURES

Steps to be taken in case  
of spill or leak:

Remove sources of ignition. Maintain adequate ventilation. Scrape up as much as possible and store in a closed container until disposal. Residues may be cleaned with isopropyl alcohol.

## 7. HANDLING AND STORAGE

Safe Storage: Store away from heat and flame.  
(Contact Loctite Customer Service 1-800-243-4874 for shelf Life information)  
Handling: Avoid prolonged breathing of vapors. Keep away from eyes. Avoid prolonged skin contact.

## 8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Eyes: Safety glasses or goggles.  
Skin: Rubber or plastic gloves.  
Ventilation: Must be adequate to avoid exceeding TLV.

See Section 2 for Exposure Limits.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Black paste  
Odor: Alcoholic  
Boiling Point: 180°F  
pH: Does not apply  
Solubility in Water: Partial  
Specific Gravity 1.28 at 77°F  
Volatile Organic Compound  
(EPA Method 24) 17.0%  
Vapor Pressure: 33mm  
Vapor Density: 2.07  
Evaporation Rate  
(Ether = 1) Not available

## 10. STABILITY AND REACTIVITY

Stability: Stable  
Hazardous Polymerization: Will not occur  
Incompatibility: Strong oxidizers.  
Conditions to Avoid: Not available

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MATERIAL SAFETY DATA SHEET

Page 04 of 05

Product Name: Pipe Joint Compound  
Item No.: 80044

10. STABILITY AND REACTIVITY

(continued)

Hazardous Decomposition  
Products (non-thermal): None

11. TOXICOLOGICAL INFORMATION

See Section 3.

12. ECOLOGICAL INFORMATION

No data available

13. DISPOSAL CONSIDERATIONS

Recommended methods of  
disposal: Incinerate following EPA and local regulations.  
EPA Hazardous Waste  
Number D001 - Hazardous waste per 40CFR 261.21

14. TRANSPORTATION INFORMATION

DOT (49 CFR 172)

Domestic Ground Transport

Proper Shipping Name: Consumer Commodity (Not more than five liters);  
Resin solution (More than five liters)

Hazard Class or

Division: ORM-D (Not more than five liters);  
Class 3, Packing Group III (More than five liters)

Identification Number: None (Not more than five liters);  
UN 1866 (More than five liters)

Marine Pollutant: None

IATA

Proper Shipping Name: Consumer Commodity (Not more than 500 ml);  
Resin Solution (More than 500 ml)  
Class or Division: Class 9 (Not more than 500 ml);  
Class 3, Packing Group III (More than 500 ml)  
UN or ID Number: ID 8000 (Not more than 500 ml);  
UN 1866 (More than 500 ml)

15. REGULATORY INFORMATION

CA Proposition 65: This product contains a chemical known to the  
the State of California to cause cancer.  
Carbon Black

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TELEPHONE: (860) 571-5100

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MATERIAL SAFETY DATA SHEET

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Product Name: Pipe Joint Compound  
Item No.: 80044

16. OTHER INFORMATION

Estimated NFPA(R) Code:  
Health Hazard: 2  
Fire Hazard: 3  
Reactivity Hazard: 0  
Specific Hazard: Does not apply

Estimated HMIS(R) Code:  
Health Hazard: 2  
Flammability Hazard: 3  
Reactivity Hazards: 0  
Personal Protection: See Section 8.

NFPA is a registered trademark of the National Fire Protection Assn.  
HMIS is a registered trademark of the National Paint and Coatings Assn.

Prepared By: Stephen Repetto  
Title: Research Chemist, Health and Safety  
Company: Loctite Corp., 1001 Tr Br Cr, Rocky Hill CT 06067  
(24hr.) Phone: (860) 571-5100  
Revision Date: April 15, 1997 Revision: 0033

WEYERHAEUSER CO -- PLYWOOD -- 5530-00N041881

=====  
Product Identification  
=====

Product ID:PLYWOOD  
MSDS Date:05/23/1988  
FSC:5530  
NIIN:00N041881  
MSDS Number: BRLRK  
=== Responsible Party ===  
Company Name:WEYERHAEUSER CO  
Box:9  
City:KLAMATH FALLS  
State:OR  
ZIP:97061  
Country:US  
Info Phone Num:206-924-2156  
Emergency Phone Num:503-884-2241  
CAGE:WEYER  
=== Contractor Identification ===  
Company Name:WEYERHAEUSER CO  
Box:708  
City:PHILADELPHIA  
State:MS  
ZIP:39350  
Country:US  
Phone:206-924-2156  
CAGE:WEYER

=====  
Composition/Information on Ingredients  
=====

Ingred Name:WOOD  
Fraction by Wt: 98-99%  
OSHA PEL:5 MG/M3 (DUST)  
ACGIH TLV:5 MG/M3;10STEL(SOFT)

Ingred Name:PHENOL FORMALDEHYDE RESIN; (RESIN SOLIDS-PHENOL  
FORMALDEHYDE) OSHA PEL: 0.75 PPM,2 PPM STEL, C (FORMALDEHYDE).  
Fraction by Wt: 1-2%  
OSHA PEL:SEE INGREDIENT NAME  
ACGIH TLV:0.3PPM(FORMALDEHYDE)

=====  
Hazards Identification  
=====

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:ACUTE: INGEST: NOT APPLIC UNDER NORM USE. EYE: WOOD DUST MAY CAUSE MECH IRRIT. SKIN: WOOD DUST CAN ELICIT ALLERGIC CONT DERM IN SENSIT INDIVS, AS WELL AS MECH IRRIT RSLTG IN ERYTHEMA & HIVES. SKIN ABS ORP: NOT KNOWN TO OCCUR UNDER NORM USE. INHAL: WOOD DUST MAY CAUSE UNPLEASANT DEPOSIT/OBSTRUCTION IN (EFTS OF OVEREXP)

Explanation of Carcinogenicity:WOOD DUST HAS BEEN ALLEGED TO CAUSE NASAL/PARANASAL SINUS CANCER (CERTAIN EUROPEAN HARDWOODS, OAK AND BEECH) .

Effects of Overexposure:HEALTH HAZARDS: NASAL PASSAGES, RESULTING IN DRYNESS OF NOSE, DRY COUGH, AND HEADACHES. CHRONIC: WOOD DUST(S), DEPENDING ON SPECIES (FOR EXAMPLE, IROKO, COCOBALO) MAY CAUSE DERMATITIS ON PROLONGED, RE PETITIVE CONTACT, AND RESPIRATORY SENSIT AFTER PROLONGED EXPOSURE TO ELEV DUST LEVS (FOR EXAMPLE, WESTERN RED CEDAR) .

Medical Cond Aggravated by Exposure:WOOD DUST MAY AGGRAVATE PREEXISTING RESPIRATORY CONDITIONS OR ALLERGIES.

===== First Aid Measures =====

First Aid:INGESTION: CALL MD IMMEDIATELY . EYE: FLUSH WITH WATER FOR AT LEAST 15 MINUTES TO REMOVE DUST PARTICLE. GET MEDICAL ATTENTION IF IRRITATION PERSISTS. SKIN: GET MEDICAL HELP IF RASH, IRRITATION, OR DERMATITIS PERSISTS. INHALATION: REMOVE TO FRESH AIR. GET MEDICAL HELP IF PERSISTENT IRRITATION, SEVERE COUGHING, OR BREATHING DIFFICULTY OCCURS.

===== Fire Fighting Measures =====

Extinguishing Media:WATER, CARBON DIOXIDE, SAND.

Fire Fighting Procedures:WEAR NIOSH/MSHA APPROVED SCBA AND FULL PROTECTIVE EQUIPMENT .

Unusual Fire/Explosion Hazard:DEPENDING ON MOISTURE CONTENT &, MORE IMPORTANTLY, PARTICLE DIAMETER, WOOD DUST MAY EXPLO. AN AIRBORNE CONC OF 40 GRAMS (40,000 MG) OF DUST PER CUBIC (SUPDAT)

===== Accidental Release Measures =====

Spill Release Procedures:NOT APPLIC FOR PRODUCT IN PURCHASED FORM. WOOD



DUST MAY BE VACUUMED OR SHOVELED FOR RECOVERY OR DISPOSAL. AVOID DUSTY CONDITIONS AND PROVIDE GOOD VENTILATION. USE NIOSH/MSHA APPROVED RESPIRATOR AND GO GGLS WHERE VENTILATION IS NOT POSSIBLE. Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

=====  
Handling and Storage  
=====

Handling and Storage Precautions:STORE IN WELL-VENTILATED, COOL, DRY PLACE AWAY FROM OPEN FLAME.

Other Precautions:NO SPECIAL HNDLG PRECS ARE REQD. PRODUCT WILL RELEASE FORMALDEHYDE IN AMOUNTS BELOW HEALTH HAZARD LEVEL (0.10 PPM) DETERMINED BY OSHA. A NIOSH/MSHA APPROVED RESPIRATOR AND GOGGLES SHOULD BE WORN WHEN ALLOWABLE EXPOS LIMITS MAY BE EXCEEDED.

=====  
Exposure Controls/Personal Protection  
=====

Respiratory Protection:NO APPLICABLE FOR PRODUCT IN PURCHASED FORM. A NIOSH/MSHA APPROVED RESPIRATOR IS RECOMMENDED WHEN ALLOWABLE EXPOSURE LIMITS MAY BE EXCEEDED.

Ventilation:PROVIDE LOC EXHST AS NEEDED SO THAT EXPOS LIMITS ARE MET. PROVIDE GEN VENT IN PROCESSING & STORAGE AREAS AS (SUPDAT)

Protective Gloves:CLOTH, CANVAS, OR LEATHER GLOVES.

Eye Protection:CHEMICAL WORKERS GOGGLES .

Other Protective Equipment:NOT APPLICABLE FOR PRODUCT IN PURCHASED FORM. OUTER GARMENTS MAY BE DESIRABLE IN EXTREMELY DUSTY AREAS.

Work Hygienic Practices:FOLLOW GOOD HYGIENIC HOUSEKEEPING PRACTS. CLEAN UP AREAS WHERE DUST SETTLES TO AVOID EXCESSIVE ACCUMULATION OF (SUPDAT)

Supplemental Safety and Health

SPECIFIC GRAVITY: 0.40-0.80 (H\*20=1). HAZARDOUS DECOMPOSITION PRODUCTS: AROMATIC HYDROCARBONS. VENTILATION: NEEDED SO THAT EXPOSURE LIMITS ARE MET. HYGIENE PRACTICE: COMBUST MATL. MIN BLOWDOWN OR OTHE R PRACTICES WHICH GENERATE HIGH AIRBORNE DUST CONCS. EXPLO HAZ: METER OF AIR IS OFTEN USED AS LEL FOR WOOD DUST.

=====  
Physical/Chemical Properties  
=====

Spec Gravity:SUPP DATA

Solubility in Water:<0.1%

Appearance and Odor:SLIGHT AROMATIC RESINOUS ODOR AND NATURAL WOOD COLOR.

Percent Volatiles by Volume:0

=====  
===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid: YES

AVOID CONTACT WITH OXIDIZING AGENTS.

Stability Condition to Avoid: AVOID OPEN FLAME. PRODUCT MAY IGNITE AT TEMPERATURES IN EXCESS OF 400F.

Hazardous Decomposition Products: THERM DECOMP PRODS INCL CARBON MONOXIDE, CARBON DIOXIDE, ALIPHATIC ALDEHYDES, ROSIN ACIDS, TERPENES, & POLYCYCLIC (SUPDAT)

=====  
===== Disposal Considerations =====

Waste Disposal Methods: IF DISP/DISCARDED IN ITS PURCHASED FORM, INCIN IS PEF. DRY LAND DISP IS ACCEPTABLE IN MOST STATES. IT IS, HOWEVER, USER'S RESPONSIBILITY TO DETERM TO TIME OF DISP WHETHER YOUR PROD MEETS RCRA CRITERIA FOR HAZ WASTE. FOLLOW APPLIC FED, ST, OR LOC REGS.

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MCEWEN LUNBER CO -- MDF--PARTICLEBOARD -- 9320-00N034843

=====  
Product Identification  
=====

Product ID:MDF--PARTICLEBOARD

MSDS Date:09/20/1987

FSC:9320

NIIN:00N034843

MSDS Number: BPWMX

=== Responsible Party ===

Company Name:MCEWEN LUNBER CO

Box:950

City:HIGH POINT

State:NC

ZIP:27261

Country:US

Info Phone Num:919-472-1900

Emergency Phone Num:919-472-1900

CAGE:IO391

=== Contractor Identification ===

Company Name:MCEWEN LUMBER CO

Box:City:HIGH POINT

State:NC

ZIP:27261

Country:US

Phone:919-472-1900

CAGE:4L099

Company Name:MCEWEN LUNBER CO

Box:950

City:HIGH POINT

State:NC

ZIP:27261

Country:US

Phone:919-472-1900

CAGE:IO391

=====  
Composition/Information on Ingredients  
=====

Ingred Name:FORMALDEHYDE. LEL: 7%, UEL: 73%

CAS:50-00-0

RTECS #:LP8925000

OSHA PEL:SEE 1910.1048

ACGIH TLV:C 0.3 PPM; A2; 9293

EPA Rpt Qty:100 LBS

DOT Rpt Qty:100 LBS

Ingred Name:WOOD DUST

ACGIH TLV:5MG/M3;10 STEL (MFR)

=====  
===== Hazards Identification =====

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.

Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO

Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:YES

Health Hazards Acute and Chronic:FORMALDEHYDE VAPOR: ACUTE: MAY CAUSE TEMPORARY IRRIT OF SKIN, EYES/RESP SYS. MAY CAUSE SENSIT IN SUSCEPTIBLE INDIVIDUALS. CHRONIC: RATS EXPOS TO 14 PPM FORMALDEHYDE DEVELOPED NASAL CANCER. THE NCI EPI DEMIOLOGY STUDY OF 26,000 WORKERS FOUND LITTLE EVIDENCE LINKING FORMALDEHYDE EXPOS TO CANCER. (EFTS OF OVEREXP)

Explanation of Carcinogenicity:FORMALDEHYDE: ANTICIPATED TO BE A CARCIN(NTP), GROUP 2B(IARC), OSHA REGULATED.

Effects of Overexposure:HLTH HAZ: WOOD DUST: EXPOS TO WOOD DUST CAN PRODUCE ALLERGIC REACTIONS IN SENSITIVE INDIVIDUALS. ALLERGIC RESPONSES INCLUDE DERMATITIS AS A RESULT OF SKIN CONTACT AND RESPIRATORY IRRITATION, COUGHING, OR BREATHING DIFFICULTIES AS A RESULT OF INHALATION.

Medical Cond Aggravated by Exposure:RESPIRATORY CONDITIONS OR ALLERGIES.

=====  
===== First Aid Measures =====

First Aid:INHAL: REMOVE TO FRESH AIR. EYES: FLUSH WITH WATER TO REMOVE DUST PARTICLES. IF IRRITATION PERSISTS GET MEDICAL ATTENTION. SKIN: SEEK MED ATTN IF A RASH, DERMATITIS OR OTHER SKIN DISORDERS OCCUR. ING EST: CALL MD IMMED . IF IRRITATION OR OTHER SYMPTOMS PERSIST, CONSULT A PHYSICIAN.

=====  
===== Fire Fighting Measures =====

Lower Limits:SEE ING 1

Upper Limits:SEE ING 1

Extinguishing Media:WATER SPRAY.

Fire Fighting Procedures:WEAR NIOSH/MSHA APPROVED SCBA AND FULL PROTECTIVE EQUIPMENT (FP N ).

Unusual Fire/Explosion Hazard:PARTICLEBOARD IS NOT AN EXPLOS HAZ.

SAWING, SAND/MACHINING PARTICLEBOARD COULD RSLT IN BY-PROD WOOD DUST. WOOD DUST MAY PRESENT A STRONG TO SEV (SUPP DATA)

===== Accidental Release Measures =====

Spill Release Procedures:PROVIDE ADEQUATE VENT TO REDUCE THE POSSIBLE BUILD-UP OF FORMALDEHYDE VAPORS.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

===== Handling and Storage =====

Handling and Storage Precautions:PROVIDE ADEQUATE VENTILATION TO REDUCE THE POSSIBLE BUILD-UP OF FORMALDEHYDE VAPORS.

Other Precautions:NONE SPECIFIED BY MANUFACTURER.

===== Exposure Controls/Personal Protection =====

Respiratory Protection:WEAR NIOSH/MSHA APPROVED BREATHING PROTECTION FOR EXPOSURE TO WOOD DUST. RESPIRATORS ARE REQUIRED IF AIR CONTAMINANTS EXCESS ACGIH TLV.

Ventilation:LOC EXHAUST: NEC TO REMOVE DUST IN SAND, SAW & MACHINING PROCESSES. MECH:VENT TO ASSURE FORMALDEHYDE CONC IS (SUPP DATA)

Protective Gloves:IMPERVIOUS GLOVES .

Eye Protection:CHEMICAL WORKERS GOGGLES .

Other Protective Equipment:NONE SPECIFIED BY MANUFACTURER.

Work Hygienic Practices:NONE SPECIFIED BY MANUFACTURER.

Supplemental Safety and Health

EXPLO HAZ: EXPLOS HAZ IF DUST COULD CONT AN IGNIT SOURCE. ACCDG TO DATA CNTND IN NFPA STD, 0.040 OZ PER CUBIC FT IS MINIMUM EXPLOS CONC FOR WOOD FLOUR. HAZ DECOMP: ALDEHYDES & ORG ACIDS. VENT: LESS TH AN ACGIH TLV.

===== Physical/Chemical Properties =====

HCC:N1

Spec Gravity:<1(H\*20=1)

Appearance and Odor:STRAW YELLOW (LIGHT BROWN). NO DISTINCTIVE ODOR.

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZING AGENTS, STRONG ACIDS.

Stability Condition to Avoid:HIGH RELATIVE HUMIDITY & HIGH TEMPERATURE

INCREASE THE RATE OF EMISSION OF FORMALDEHYDE FROM PARTICLEBOARD.  
Hazardous Decomposition Products:THERMAL &/OR THERMAL-OXIDATIVE DECOMP  
CAN PRDCE IRRITATING & TOX FUMES & GASES, INCL CARBON MONOXIDE,  
(SUPP DATA)

=====  
===== Disposal Considerations =====

Waste Disposal Methods:INCINERATE OR LANDFILL IN ACCORDANCE WITH LOCAL,  
STATE, AND FEDERAL REGULATIONS.

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document should seek competent professional advice to verify and  
assume responsibility for the suitability of this information to their  
particular situation.

OSMOSE WOOD PRESERVING INC -- PRESSURE TREATED WOOD WITH INHIBITOR, 0.4PCF  
-- 5510-00N064601

=====  
Product Identification  
=====

Product ID:PRESSURE TREATED WOOD WITH INHIBITOR, 0.4PCF  
MSDS Date:06/19/1990  
FSC:5510  
NIIN:00N064601  
MSDS Number: BZKKF  
=== Responsible Party ===  
Company Name:OSMOSE WOOD PRESERVING INC  
Address:980 ELLICOTT STREET  
City:BUFFALO  
State:NY  
ZIP:14209  
Country:US  
Info Phone Num:404-228-8434  
Emergency Phone Num:716-882-5905  
Preparer's Name:TERI MUCHOW  
CAGE:83684

==== Contractor Identification ===

Company Name:OSMOSE WOOD PRESERVING CO OF AMERICA INC  
Address:980 ELLICOTT ST  
Box:City:BUFFALO  
State:NY  
ZIP:14209-2323  
Country:US  
Phone:716-882-5905  
CAGE:83684

=====  
Composition/Information on Ingredients  
=====

Ingred Name:ARSENIC PENTOXIDE (SARA 302/313) (CERCLA)  
CAS:1303-28-2  
RTECS #:CG2275000  
Fraction by Wt: 0.4%  
OSHA PEL:SEE 1910.1018  
ACGIH TLV:0.01 MG/M3, A1  
EPA Rpt Qty:1 LB  
DOT Rpt Qty:1 LB

Ingred Name:COPPER(I) OXIDE; (COPPER OXIDE)

CAS:1317-39-1  
RTECS #:GL8050000  
Fraction by Wt: 0.2%  
OSHA PEL:N/K  
ACGIH TLV:N/K

Ingred Name:CHROMIUM(III)OXIDE(2:3); (TRIVALENT CHROMIUM)  
CAS:1308-38-9  
RTECS #:GB6475000  
Fraction by Wt: 0.6%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:N/K  
ACGIH TLV:0.5 MG/M3 TWA AS CR

Ingred Name:INHIBITOR; (MOLD INHIBITOR) (CONTAINING INGS 5-8)  
OSHA PEL:N/K  
ACGIH TLV:0.5 MG/M3 TWA AS CR

Ingred Name:4-ISOTHIAZOLIN-3-ONE, 5-CHLORO-2-METHYL-;  
(5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE)  
CAS:26172-55-4  
RTECS #:NX8156850  
OSHA PEL:N/K  
ACGIH TLV:N/K

Ingred Name:3(2H)-ISOTHIAZOLONE, 2-METHYL-;  
(2-METHYL-4-ISOTHIAZOLIN-3-ONE)  
CAS:2682-20-4  
RTECS #:NX8157080  
OSHA PEL:N/K  
ACGIH TLV:N/K

Ingred Name:MAGNESIUM CHLORIDE  
CAS:7786-30-3  
RTECS #:OM2800000  
OSHA PEL:N/K  
ACGIH TLV:N/K

Ingred Name:MAGNESIUM(II)NITRATE(1:2); (MAGNESIUM NITRATE)  
CAS:10377-60-3  
RTECS #:OM3750000  
OSHA PEL:5 MG MG/M3 CEILING  
ACGIH TLV:10 MG MG/M3



=====  
Hazards Identification  
=====

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.  
Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO  
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:YES  
Health Hazards Acute and Chronic:ACUTE: WOOD DUST MAY CAUSE SKIN IRRITATION & BREATHING DIFFICULTY. DRY OSMOSE BRAND PRESSURE TREATED WOOD HAS A LOW ORDER OF TOXICITY, THEREFORE, THE ABOVE RXNS ARE UNLIKELY. THE MOLD INHIBITOR MAY CAUSE SKIN IRRIT IF WOOD IS WET.  
Explanation of Carcinogenicity:ARSENIC PENTOXIDE: NTP 7TH ANNUAL REPORT ON CARCINS, 1994, KNOWN TO BE CARCIN. OSHA REG CFR 29.1910.1018;(SUP DAT)  
Effects of Overexposure:SEE HEALTH HAZARDS.  
Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

=====  
First Aid Measures  
=====

First Aid:INHAL: USE A NIOSH/MSHA APPRVD DUST MASK. REMOVE TO FRESH AIR. SUPPORT BREATHING(GIVE O\*2/ARTF RESP). EYE: FLUSH W/COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINS. SEE MD. SKIN: FLUSH W/COPIOUS AMOUNTS OF WATER. INGEST: CALL MD IMMEDIATELY.

=====  
Fire Fighting Measures  
=====

Extinguishing Media:WATER FOG, FOAM, CO\*2, DRY CHEMICAL.  
Fire Fighting Procedures:WEAR NIOSH/MSHA APPROVED SCBA & FULL PROTECTIVE EQUIPMENT. TOXIC VAPORS FROM WOOD AND PRESERVATIVE MAY BE GIVEN OFF IN A FIRE.  
Unusual Fire/Explosion Hazard:NONE SPECIFIED BY MANUFACTURER.

=====  
Accidental Release Measures  
=====

Spill Release Procedures:MAINTAIN A CLEAN WORKPLACE. CLEAN UP SCRAP LUMBER & SAWDUST. WEAR NIOSH/MSHA APPRVD DUST MASK WHEN CLEANING UP SAWDUST.  
Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

=====  
Handling and Storage  
=====

Handling and Storage Precautions:SPECIFY ONLY PRESSURE TREATED WOOD TREATED WITH "OXIDE" CCA PRESERVATIVES & FREE FROM EXCESS SURF

DEPOSITS OF PRESERVATIVES.

Other Precautions:AVOID HANDLING AND MACHINING OF FRESHLY TREATED "WET" WOOD UNLESS SPECIFIED SAFETY PRECAUTIONS ARE OBSERVED. READ & FOLLOW LABEL INSTRUCTIONS.

=====  
Exposure Controls/Personal Protection  
=====

Respiratory Protection:WHEN MACHINING, A NIOSH/MSHA APPRVD DUST MASK IS RECOMMENDED. FOR WET WOOD, A NIOSH/MSHA APPRVD RESPIRATOR MAY BE REQUIRED.

Ventilation:MECH(GENL): WHEN MACHINING.

Protective Gloves:RUBBER WHEN HNDLG WET WOOD. (SUPDAT)

Eye Protection:ANSI APPRVD CHEM WORKERS GOGGS.

Other Protective Equipment:EMERGENCY EYEWASH & DELUGE SHOWER MEETING ANSI DESIGN CRITERIA. AS NEC TO LIMIT EXPOS WHEN HNDLG WET WOOD.

Work Hygienic Practices:USE GOOD PERSONAL HYGIENE. WASH HANDS BEFORE EATING OR SMOKING.

Supplemental Safety and Health

PROT GLOVES: LEATHER TO AVOID SPLINTERS. EXP OF CARCIN:IARC GRP 1, SUP 7, P 100, 1988.

=====  
Physical/Chemical Properties  
=====

Spec Gravity:AS WOOD(H\*20=1)

Solubility in Water:HIGHLY SOLUBLE

Appearance and Odor:GREEN-YELLOW WOOD.

=====  
Stability and Reactivity Data  
=====

Stability Indicator/Materials to Avoid:YES

NONE SPECIFIED BY MANUFACTURER.

Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER.

Hazardous Decomposition Products:ASH WILL CONTAIN FREE ARESENIC AND CHROMIUM AND MAY BE TOXIC.

=====  
Disposal Considerations  
=====

Waste Disposal Methods:DISPOSE WASTE MATERIAL IN AN APPROVED LANDFILL. DO NOT BURN: ASH MAY BE TOXIC AND A HAZARDOUS WASTE; COMBUSTION VAPORS MAY BE TOXIC. DISPOSE OF IN ACCORDANCE W/LOCAL, STATE & FEDERAL REGULATIONS .

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OSMOSE WOOD PRESERVING INC -- PRESSURE TREATED WOOD, 0-CCAW -- 8010-00N061645

=====  
Product Identification  
=====

Product ID:PRESSURE TREATED WOOD, 0-CCAW

MSDS Date:09/20/1993

FSC:8010

NIIN:00N061645

MSDS Number: BYBBH

=== Responsible Party ===

Company Name:OSMOSE WOOD PRESERVING INC

Address:980 ELLICOTT ST

City:BUFFALO

State:NY

ZIP:14209

Country:US

Info Phone Num:404-228-8434

Emergency Phone Num:716-882-5905

Preparer's Name:TERI MUCHOW

CAGE:83684

=== Contractor Identification ===

Company Name:OSMOSE WOOD PRESERVING CO OF AMERICA INC

Address:980 ELLICOTT ST

Box:City:BUFFALO

State:NY

ZIP:14209-2323

Country:US

Phone:716-882-5905

CAGE:83684

=====  
Composition/Information on Ingredients  
=====

Ingred Name:ARSENIC PENTOXIDE (SARA 302/313) (CERCLA)

CAS:1303-28-2

RTECS #:CG2275000

OSHA PEL:0.5 MG/M3 (MFR)

ACGIH TLV:0.01 MG/M3, A1

EPA Rpt Qty:1 LB

DOT Rpt Qty:1 LB

Ingred Name:COPPER (I) OXIDE; (COPPER OXIDE)

CAS:1317-39-1

RTECS #:GL8050000  
OSHA PEL:1.0 MG/M3 (MFR)  
ACGIH TLV:1.0 MG/M3 (MFR)

Ingred Name:CHROMIUM (III) OXIDE (2:3); (TRIVALENT CHROMIUM)  
CAS:1308-38-9  
RTECS #:GB6475000  
OSHA PEL:0.1 MG/M3 (MFR)  
ACGIH TLV:0.5 MG/M3 TWA AS CR

=====  
===== Hazards Identification =====

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.  
Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO  
Reports of Carcinogenicity:NTP:YES IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:ACUTE: WOOD DUST MAY CAUSE SKIN IRRIT  
& BRTHG DFCLT. DRY OSMOSE BRAND PRESS TREATED WOOD HAS LOW ORDER OF  
TOXICITY, THEREFORE, THE ABOVE RXNS ARE UNLIKELY. HNDLG MAY CAUSE  
SPLINTERS. WOOD DUST MAY CAU SE EYE IRRIT. CHRONIC: NOT APPLIC.  
NOTE: ARSENIC PENTOXIDE IN PROD IS NOT SUBJECT TO OSHA ARSENIC STD  
(EFTS OF OVEREXP)  
Explanation of Carcinogenicity:ARSENIC PENTOXIDE: NTP 7TH ANNUAL REPORT  
ON CARCINOGENS, 1994: KNOWN TO BE CARCINOGEN. CHROMIUM OXIDE: NTP  
7TH (SUP DAT)  
Effects of Overexposure:HLTH HAZ: 29 CFR 1910.1018 (MFR). WARNING: SOME  
FORMS OF COMPONENTS IN LIQ PRESERVATIVE USED TO MFR PROD HAVE  
CAUSED LUNG, SKIN, & POSS OTHER CANCERS IN HUMANS  
OCCUPATIONALLY/ENVIRONMENTALLY OVEREXPOS ED. SUCH HAZ HAVE NOT BEEN  
ASSOC W/TREATED WOOD USE.  
Medical Cond Aggravated by Exposure:NOT APPLICABLE.

=====  
===== First Aid Measures =====

First Aid:SKIN: WASH WITH SOAP AND WATER. EYES: FLUSH WITH POTABLE  
WATER FOR AT LEAST 15 MINUTES. SEE MD . INHALATION: REMOVE TO FRESH  
AIR. SUPPORT BREATHING (GIVE OXYGEN OR ARTIFICIAL RESPIRATION) .  
INGESTION: CALL MD IMMEDIATELY .

=====  
===== Fire Fighting Measures =====

Extinguishing Media:WATER FOG, FOAM, CARBON DIOXIDE, DRY CHEMICAL.  
Fire Fighting Procedures:WEAR NIOSH/MSHA APPROVED SCBA & FULL  
PROTECTIVE EQUIPMENT . TOXIC VAPORS FROM WOOD AND PRESERVATIVE MAY

BE GIVEN OFF IN A FIRE.

Unusual Fire/Explosion Hazard:NOT APPLICABLE.

===== Accidental Release Measures =====

Spill Release Procedures:MAINTAIN A CLEAN WORKPLACE. CLEAN UP SCRAP LUMBER AND SAWDUST.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

===== Handling and Storage =====

Handling and Storage Precautions:SPECIFY ONLY PRESSURE TREATED WOOD TREATED WITH "OXIDE" CCA PRESERVATIVES AND FREE FROM EXCESS SURFACE DEPOSITS OF PRESERVATIVES.

Other Precautions:AVOID HANDLING & MACHINING OF FRESHLY TREATED "WET" WOOD UNLESS SPECIFIED SAFETY PRECAUTIONS ARE OBSERVED. READ & FOLLOW LABEL INSTRUCTIONS. WEAR A DUST MASK WHEN CLEANING UP SAWDUST. DO NOT USE UNTIL MSDS & CIS HAVE BEEN READ & UNDERSTOOD.

===== Exposure Controls/Personal Protection =====

Respiratory Protection:WHEN MACHINING, A NIOSH/MSHA APPROVED DUST MASK IS RECOMMENDED. FOR WET WOOD, A NIOSH/MSHA APPROVED RESPIRATOR MAY BE REQUIRED.

Ventilation:MECHANICAL: WHEN MACHINING.

Protective Gloves:RUBBER WHEN HANDLING WET WOOD, (SUP DAT)

Eye Protection:ANSI APPROVED SAFETY GLASSES .

Other Protective Equipment:AS NECESSARY TO LIMIT EXPOSURE WHEN HANDLING WET WOOD.

Work Hygienic Practices:USE GOOD PERSONAL HYGIENE. WASH HANDS BEFORE EATING AND SMOKING.

Supplemental Safety and Health

CARCIN EXPLAN: ANNUAL REPORT ON CARCINOGENS, 1994: KNOWN TO BE CARCINOGENIC. PROT GLOVES: LEATHER TO AVOID SPLINTERS.

===== Physical/Chemical Properties =====

Spec Gravity:AS WOOD(H\*20=1)

Solubility in Water:HIGHLY INSOLUBLE

Appearance and Odor:GREEN-YELLOW WOOD

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid: YES

NOT APPLICABLE.

Stability Condition to Avoid: NOT APPLICABLE.

Hazardous Decomposition Products: ASH WILL CONTAIN FREE ARSENIC AND CHROMIUM AND MAY BE TOXIC.

===== Disposal Considerations =====

Waste Disposal Methods: DISPOSE WASTE MATERIAL IN AN APPROVED LANDFILL. DO NOT BURN, ASH MAY BE TOXIC AND A HAZARDOUS WASTE. COMBUSTION VAPORS MAY BE TOXIC. DISPOSE IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL LAWS.

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CONTINENTAL CHEM CORP -- WOOD PRESERVATIVE -- 8030-00-222-0503

=====  
Product Identification  
=====

Product ID:WOOD PRESERVATIVE  
MSDS Date:01/01/1987  
FSC:8030  
NIIN:00-222-0503  
MSDS Number: BDJXB  
=== Responsible Party ===  
Company Name:CONTINENTAL CHEM CORP  
Address:1330 BEECH STREET  
City:TERRE HAUTE  
State:IN  
Country:US  
Info Phone Num:812-235-8035  
Emergency Phone Num:812-235-8035  
CAGE:23894

=== Contractor Identification ===  
Company Name:CONTINENTAL CHEM CORP  
Address:1330 BEECH STREET  
Box:City:TERRE HAUTE  
State:IN  
Country:US  
CAGE:23894

=====  
Composition/Information on Ingredients  
=====

Ingred Name:STODDARD SOLVENT  
CAS:8052-41-3  
RTECS #:WJ8925000  
Fraction by Wt: 77%  
OSHA PEL:500 PPM  
ACGIH TLV:100 PPM; 9293

Ingred Name:ALKYD RESIN  
Fraction by Wt: 18%

Ingred Name:PENTACHLOROPHENOL (SARA III)  
CAS:87-86-5  
RTECS #:SM6300000  
Fraction by Wt: 5%  
OSHA PEL:S, 0.5 MG/M3



ACGIH TLV:S, 0.5 MG/M3; 9192

EPA Rpt Qty:10 LBS

DOT Rpt Qty:10 LBS

=====  
Hazards Identification  
=====

Effects of Overexposure:CONTACT WITH SKIN OR EYES CAN PRODUCE IRRITATION.

=====  
First Aid Measures  
=====

First Aid:CLEAN EXPOSED SKIN WITH SOAP AND WATER. FLUSH EYES WITH WATER. IF IRRITATION PERSISTS CALL PHYSICIAN.

=====  
Fire Fighting Measures  
=====

Flash Point:140F, 60C TCC  
Extinguishing Media:CO\*2, POLYMER FOAM  
Fire Fighting Procedures:NONE

=====  
Accidental Release Measures  
=====

Spill Release Procedures:ELIMINATE ALL SOURCES OF IGNITION. VACUUM OR SQUEEGEE EXCESS MATERIAL. FLUSH WITH LARGE VOLUMES OF WATER.

=====  
Handling and Storage  
=====

Handling and Storage Precautions:KEEP AWAY FROM EXCESSIVE HEAT.

=====  
Exposure Controls/Personal Protection  
=====

Respiratory Protection:NORMAL FOR PAINTS AND SOLVENTS (ALIPHATIC)  
Ventilation:LOCAL EXHAUST PREFERRED.  
Protective Gloves:RUBBER; PLASTIC  
Eye Protection:GOGGLES  
Supplemental Safety and Health

=====  
Physical/Chemical Properties  
=====

HCC:F4  
Boiling Pt:B.P. Text:311F; 155C  
Spec Gravity:0.88  
Evaporation Rate & Reference:0.06 TOLUOL

Solubility in Water:INSOLUBLE  
Percent Volatiles by Volume:85

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES  
OXIDIZING AGENTS  
Stability Condition to Avoid:EXCESSIVE HEAT

===== Disposal Considerations =====

Waste Disposal Methods:INCINERATE.

Disclaimer (provided with this information by the compiling agencies):  
This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.

MCEWEN LUMBER CO -- WOOD DUST -- 5510-00N034842

=====  
Product Identification  
=====

Product ID:WOOD DUST  
MSDS Date:09/15/1987  
FSC:5510  
NIIN:00N034842  
MSDS Number: BPWMW  
=== Responsible Party ===  
Company Name:MCEWEN LUMBER CO  
Box:950  
City:HIGH POINT  
State:NC  
ZIP:27261  
Country:US  
Info Phone Num:919-472-1900  
Emergency Phone Num:919-472-1900  
CAGE:4L099

=== Contractor Identification ===

Company Name:MCEWEN LUMBER CO  
Box:City:HIGH POINT  
State:NC  
ZIP:27261  
Country:US  
Phone:919-472-1900  
CAGE:4L099

=====  
Composition/Information on Ingredients  
=====

Ingred Name:WOOD DUST  
Fraction by Wt: 100%  
OSHA PEL:5 MG/M3;10 STEL  
ACGIH TLV:1 MG/M3

Ingred Name:EXPLO HAZ:AS UPPER TEMP LIMIT FOR CONTINUOUS EXPOS FOR WOOD  
W/OUT RISK OF IGNIT. (WOOD DUST MAY REQ A STILL LOWER(ING 3)  
RTECS #:9999999ZZ

Ingred Name:ING 2:TEMP). WHITE PINE FLOUR AS A "CLOUD" IN AIR REQ 0.040  
J. MIN. ENERGY FOR IGNITION AND CAN PRODUCE AN EXPLO (ING 4)  
RTECS #:9999999ZZ

Ingred Name:ING 3: PRESSURE OF 113 PSIG MAX.

RTECS #:9999999ZZ

=====  
Hazards Identification  
=====

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.

Routes of Entry: Inhalation:YES Skin:NO Ingestion:YES

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:AVOID PRLNGD/RPTD BRTHG OF WOOD DUST IN AIR. RPTD EXPOS (EVEN <5 MG/M3) TO CERTAIN WOOD DUSTS, SUCH AS WESTERN RED CEDAR, CAN PRDCE ALLERGIC RESPONSES IN FEW SENSITIVE INDIV. AVOID RPTD/PRLNGD CONT W/ SKIN, WHICH CAN ALSO CAUSE ALLERGIC RESPONSES. IF ALLERGY, SUCH AS DERM, ASTHMA/BRONCH DEVELOPS, IT(EFTS OF OVEREXP)

Explanation of Carcinogenicity:NOT RELEVANT.

Effects of Overexposure:HLTH HAZ:MAY BE NEC TO REMOVE SENSITIZED WORKER FROM FURTHER EXPOS TO WOOD DUST (& ALSO, PERHAPS TO WOOD-BASED PRODS LIKE TURPENTINE & ROSIN). CERTAIN SPECIES OF WOODS,E.G. BOXWOOD, CASHEW, MAHOGANY,R ED CEDAR,YEW, ROSEWOOD, SATINWOOD,& TEAK, ARE KNOWN TO CAUSE SKIN, EYE & URT IRRIT ALONG W/ALLERGENIC RESPONSES (SUPDAT)

Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

=====  
First Aid Measures  
=====

First Aid:INGEST: CALL MD IMMED . INHAL: REMOVE TO FRESH AIR. IF PERSISTENT IRRIT, SEV COUGHING, BRTHG DFCLTYS, OR RASH OCCUR, GET MED ADVICE BEFORE RETURNING TO WORK W/WOOD DUST. EYE: FLUSH W/H\*20 FOR AT LST 15 MIN TO REMOVE DUST PARTICLES FROM EYE. IF IRRIT PERSISTS, GET MED ATTENTION. SKIN: IF RASH/PERSISTENT IRRIT/DERM OCCUR, GET MEDICAL ADVICE BEFORE RETURNING TO WORK WHERE WOOD DUST IS PRESENT.

=====  
Fire Fighting Measures  
=====

Extinguishing Media:USE MEDIA SUITABLE FOR SURROUNDING FIRE .

Fire Fighting Procedures:WEAR NIOSH/MSHA APPRVD SCBA & FULL PROT EQUIP.USE H\*20 SPRAY TO WET DOWN WOOD DUST TO REDUCE LIKELIHOOD OF IGNIT/DISPERSION OF DUST INTO AIR. (SUPP DATA)

Unusual Fire/Explosion Hazard:WOOD DUST IS STRONG TO SEV EXPLO HAZ IF DUST "CLOUD" CONT AN IGNIT SOURCE.PARTIALLY BURNED DUST IS ESPEC HAZ IF DISPERSED IN AIR.212F HAS BEEN SUGGESTED (ING 2)

===== Accidental Release Measures =====

Spill Release Procedures:SWEEP UP OR VACUUM UP SPILLS FOR RECOVERY OR DISPOSAL, AVOIDING DUSTING CONDITIONS. PROVIDE GOOD VENTILATION. PLACE RECOVERED WOOD DUST IN COVERED METAL CONTAINER FOR PROMPT DISPOSAL.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

===== Handling and Storage =====

Handling and Storage Precautions:SAWDUST MUST BE KEPT CLEAN, DRY AND FREE FROM OIL. AVOID HOT, HUMID STORAGE OR CONTACT WITH DRYING OILS (SPONTANEOUS HEATING IS POSSIBLE).

Other Precautions:PARTIALLY BURNED OR SCORCHED WOOD DUST CAN BE HAZ TO STORE. AVOID GENERATION OF EXPLOSIVE LEVELS OF WOOD DUST IN AIR. FOLLOW GOOD HOUSEKEEPING PRACT; CLEAN UP AREAS WHERE WOOD DUST SETTLES TO AVOID EX CESSIVE ACCUMULATION OF COMBUST MATL.

===== Exposure Controls/Personal Protection =====

Respiratory Protection:NIOSH/MSHA APPROVED DUST RESPIRATOR, UNDER DUSTING CONDITIONS.

Ventilation:LOC EXHST TO MEET TLV REQ. DUE TO EXPLO POTNTL OF WOOD DUST WHEN SUSPENDED IN AIR, PREC SHOULD BE TAKEN TO PVNT (SUPDAT)

Protective Gloves:IMPERVIOUS GLOVES .

Eye Protection:CHEMICAL WORKERS GOGGLES .

Other Protective Equipment:RECOMMEND THE USE OF CLEAN BODY-COVERING WORK CLOTHING TO REDUCE EXPOSURE OF SKIN TO WOOD DUST.

Work Hygienic Practices:FOLLOW GOOD HOUSEKEEPING PRACT; CLEAN UP AREAS WHERE WOOD DUST SETTLES TO AVOID EXCESSIVE ACCUMULATION OF COMBUST MATL.

Supplemental Safety and Health

APPEAR/ODOR:DEPENDENT ON WOOD SOURCE & AGING.FIRE FIGHT PROC: REMOVE BURNED/WET DUST TO OPEN AREA AFTER FIRE IS OUT.VENT: SPARKS/OTHER IGNIT SOURCES IN VENT EQUIP.USE OF TOTALLY ENCLOSED MOTORS IS REC OM.EFTS OF OVEREXP:& ASTHMA.EXPOS TO WOOD DUST HAS BEEN STATISTICALLY ASSOC W/NASAL CANCER IN BRITISH FURNITURE WORKERS.

===== Physical/Chemical Properties =====

HCC:N1

Spec Gravity:1 (H\*20=1)

Solubility in Water:INSOLUBLE

Appearance and Odor:LIGHT YELLOW TO BUFF-COLORED GRANULAR/FINELY  
POWDERED SOLID. ODOR IS (SUPP DATA

=====  
Stability and Reactivity Data  
=====

Stability Indicator/Materials to Avoid:YES

OXIDIZING AGENTS AND DRYING OILS.

Stability Condition to Avoid:NOT APPLICABLE.

Hazardous Decomposition Products:THERMAL-OXIDATIVE DEGRADATION OF WOOD  
PRODUCES IRRITATING & TOXIC FUMES AND GASES, INCLUDING CO,  
ALDEHYDES & ORG ACIDS.

Conditions to Avoid Polymerization:WOOD DUST IS EXTREMELY COMBUSTIBLE.  
KEEP IN A COOL, DRY PLACE AWAY FROM IGNITION SOURCES.

=====  
Disposal Considerations  
=====

Waste Disposal Methods:DISPOSE IN A LANDFILL OR INCINERATE. DISPOSE OF  
IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS .

Disclaimer (provided with this information by the compiling agencies):  
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assume responsibility for the suitability of this information to their  
particular situation.



# Safety Data Sheet

## AQUAOX DISINFECTANT 525

### SECTION I – IDENTIFICATION

Product Name: Aquaox Disinfectant 525 | Product Number: AX525  
Product Description: Hypochlorous Acid Solution Generated Electro-Chemically from Diluted Brine  
Container Size: 275 Gallons 30 Gallons  
5 Gallons 1 Gallon  
CAS Number: None (Mixture)  
Recommended Use: This product is a ready-to-use, one-step cleaner and disinfectant for general cleaning and disinfecting on hard, non-porous surfaces.  
Restricted Use: This product is not for human or animal use.  
Manufacturer: Aquaox LLC  
Address: 17355 Hamlin Blvd, Loxatchee, FL 33470  
Number: (800) 790-7520  
Chemtrec Emergency Number: (800)-424-9300

### SECTION II – HAZARDS IDENTIFICATION

The following values are obtained using the guidelines prepared by the National Fire Protection Association (NFPA) and the American Coatings Association.

#### HMIS Rating:

- Health = 0
- Flammability = 0
- Physical = 0
- Reactivity = 0

#### NFPA/HMIS Definitions

- 0 = Minimal Hazard
- 1 = Slight Hazard
- 2 = Moderate Hazard
- 3 = Serious Hazard
- 4 = Severe Hazard

Personal Protection Index: B (Eye Protection and Gloves)

#### Hazard Information Disclosures:

TSCA: All chemicals in this product are listed on the EPA TSCA inventory list.  
CERCLA/SARA: This product does not fall under any hazardous categories under SARA Sections 311 and 312.  
OSHA: This product is not a hazardous chemical as defined by the OSHA Hazard Communication Standard, 29 CFR § 1910.1200.

#### Product Label on Hazard Information:

- Avoid Contact with Eyes and Skin
- Wash Hands after Handling Product
- Keep out of Reach of Children

# Safety DataSheet

## AQUAOX DISINFECTANT 525

### SECTION III – COMPOSITION AND INFORMATION ON INGREDIENTS

Component(s)	CAS #
Water	7732-18-5
Hypochlorous Acid	7790-92-3
Sodium Hypochlorite	7681-52-9
Sodium Chloride	7647-14-5

The product contains approximately 575ppm free available chlorine (FAC).

### SECTION IV – FIRST-AID MEASURES

**Skin Contact:** In case of contact, flush with plenty of water. Cold water may be used. Wash clothing before reuse. Seek medical attention if skin irritation occurs.

**Eye Contact:** Check for and remove any contact lenses. Flush eyes with running water for at least 15 minutes with eyelids open. Cold water may be used. Seek medical attention if eye irritation occurs.

**Inhalation:** If inhaled, remove to fresh air. Seek medical attention if not breathing or breathing is difficult.

**Ingestion:** If swallowed, rinse mouth with water and drink plenty of fluids. Seek medical attention if discomfort occurs.

### SECTION V – FIRE-FIGHTING MEASURES

Not Applicable, this product is Non-Flammable and Non-Explosive. No extinguishing techniques or equipment are required.

### SECTION VI – ACCIDENTAL RELEASE MEASURES

In case of spill or leakages, dike spill with inert absorbent materials (e.g. sand, "oil-dry" or other commercially spill absorbents) to contain and soak spilled liquid. Place wastes into an appropriate waste disposal container.

### SECTION VII – HANDLING AND STORAGE

**Handling:** No special handling requirements; follow use instructions on product label. Open air or good room ventilation and appropriate PPE are adequate for the safe use of this product.

**Storage:** Keep container tightly closed in a dry and well-ventilated place at room temperature. Avoid direct light exposure, freezing and extreme heat.



# Safety DataSheet

## AQUAOX DISINFECTANT 525

### SECTION VIII – EXPOSURE CONTROLS AND PERSONAL PROTECTION

OSHA PEL: Unknown.  
Cal/OSHA PEL: Unknown.  
NIOSH REL: Unknown.  
ACGIH TLV: Unknown.

Engineering Control: None Required. Open air or good room ventilation is adequate for the safe use of this product.

#### Personal Protective Equipment (PPE):

Respiratory Protection: Not necessary as long as there is adequate ventilation.  
Protective Clothing: Not required under normal conditions of use.  
Hand Protection: Not required under normal conditions of use.  
Eye Protection: Not necessary, but good manufacturing practice recommends the use of chemical safety glasses or goggles for all applications involving chemical handling.

### SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid
Color:	Clear
Odor:	Slight Chlorine Odor
pH:	6.2 – 7.0
Specific Gravity (H <sub>2</sub> O = 1 at 20°C):	1.00 – 1.06
Density:	8.34 lbs/gal
Viscosity:	Comparable to Water
Boiling Point:	Comparable to Water
Melting Point/ Range:	NA
Evaporation Rate:	Comparable to Water
Solubility:	Complete in Water
Flash Point:	NA
Flammability:	Non-Flammable
Explosive Limits:	Non-Explosive
Vapor Pressure (mmHg at 20°C):	NA
Vapor Density:	NA

### SECTION X – STABILITY AND REACTIVITY

Reactivity:	Not Reactive under recommended handling and storage conditions.
Chemical Stability:	Stable under recommended handling and storage conditions.
Hazardous Reactions:	Product is Not Hazardous.
Conditions to Avoid:	Direct light exposure, freezing and extreme heat.
Materials to Avoid	Strong oxidizing agents, strong acids and organic materials.
Hazardous Decomposition Products:	May form under fire conditions; nature of decomposition products is unknown.
Hazardous Polymerization	Will not occur.

# Safety DataSheet

## AQUAOX DISINFECTANT 525

### SECTION XI – TOXICOLOGICAL INFORMATION

Route of Entry / Exposure: Skin Contact  
Eye Contact  
Inhalation  
Ingestion

Potential Acute Health Effects:

Skin Contact: No potential health effects; product is non-hazardous.

Eye Contact: No potential health effects; product is non-hazardous.

Inhalation: No potential health effects; product is non-hazardous.

Ingestion: No potential health effects; product is non-hazardous.

Potential Chronic Health Effects:

Carcinogenic Effects: Not Applicable.

Mutagenic Effects: Not Applicable.

Teratogenic Effects: Not Applicable.

Developmental: Not Applicable.

Numerical Measures of Toxicity: Unknown.

### SECTION XII – ECOLOGICAL INFORMATION

Product presents no hazards to the environment. Product is bio-degradable and eco-friendly.

### SECTION XIII – DISPOSAL CONSIDERATIONS

Follow disposal instructions on product label. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. If these wastes cannot be disposed of according to label instructions, contact State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the EPA Regional Office for guidance.

### SECTION XIV – TRANSPORT INFORMATION

DOT: Not DOT regulated. No DOT label required.

IATA: Not dangerous good.

IMDG: Not dangerous good

OSHA: No label required.

### SECTION XV – REGULATORY INFORMATION

See "Hazard Information Disclosures" under Section II.

# Safety DataSheet

## AQUAOX DISINFECTANT 525

### SECTION XVI – OTHER INFORMATION

Preparation Date of Latest Revision: February 20, 2018

Disclaimer:

This Safety Data Sheet (SDS) was prepared in accordance with the provisions and requirements of 29 CFR § 1910.1200(g) and discloses the physical and health hazards of all hazardous chemicals contained in the product described in this SDS. Unless otherwise noted, t h i s S D S does not describe or disclose all of the chemicals/components in the product, some of which may be Trade Secrets.

The information included in this SDS is based on data developed or compiled by Aquaiox from open literature, independent laboratory studies, and other available scientific evidence, and is believed to be accurate and complete to the best of our knowledge. However, Aquaiox makes no warranty with respect thereto. Anyone intending to use the product described in this SDS should satisfy herself that the Product (1) is suitable for their particular purposes and intended uses, and (2) meets any safety and health standards applicable thereto. It is the obligation of each user of the product described in this SDS to determine and comply with all statutes, local, state and federal requirements, which are applicable to its use, storage and disposal.

Abbreviations :

ACGIH:	American Conference of Industrial Hygienists
CAL/OSHA:	California Division of Occupational Safety and Health
CAS Number:	Chemical Abstracts Service Register Number
CERCLA:	Comprehensive Environmental Response Compensation and Liability Act
DOT:	Department of Transportation
EPA:	Environmental Protection Agency
GRAS:	Generally Recognized as Safe
HMIS:	Hazardous Materials Identification System
IATA:	International Air Transport Association
IMDG:	International Maritime Dangerous Goods
NA:	Not Applicable
NIOSH:	National Institute for Occupational Safety and Health
OSHA:	Occupational Safety and Health Administration PEL: Permissible Exposure Limits
REL:	Recommended Exposure Limits
SARA:	Superfund Amendment and Reauthorization Act of 1986
TLV:	Threshold Limit Values
TSCA:	Toxic Substances Control Act of 1976



EPA No: 93392-2

## Ready-to-use Broad Spectrum Disinfectant

For use in public or common places where bacteria, viruses or spores may be of concern. One-step cleaner and disinfectant for general cleaning and disinfecting hard, non-porous environmental surfaces in healthcare facilities.

## Disinfecting? Simply spray and let air-dry!

- Fast acting, residue free disinfectant
- Removes and prevents biofilm
- Organic and 100% biodegradable
- Effective against Methicillin resistant Staphylococcus aureus (MRSA), Vancomycin resistant enterococci (VRE) Mycobacterium bovis (BCG), Escherichia coli (NDM), Salmonella enterica, Swine influenza Virus (H1N1), Human immunodeficiency Virus (HIV-1).

For up to date efficacy claims, please refer to our EPA registered label.

1 gallon/128 oz. (6.5"x6.5"x6.5, 9 lbs.)  
4 gallon per case (13"x13"x13", 38 lbs.)

A revolutionary disinfecting solution which active ingredient HOCL is non-hazardous, has no fragrance, and is safe on all surfaces (and on skin)

