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MAGNOLIA CHEMICALS AND SOLVENTS -- 40% MORPHOLINE -- 6810-00-559-9889

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

Product ID:40% MORPHOLINE

MSDS Date:08/12/1995

FSC:6810

NIIN:00-559-9889

MSDS Number: CBQKJ

=== Responsible Party ===

Company Name:MAGNOLIA CHEMICALS AND SOLVENTS

Address:1020 SAMS AVENUE

Box:10276

City:NEW ORLEANS

State:LA

ZIP:70181-0278

Country:US

Info Phone Num:713-235-6432/512-459-6543

Emer

gency Phone Num:914-831-3400

Chemtrec Ind/Phone:(800)424-9300

CAGE:0LNB7

=== Contractor Identification ===

Company Name:MAGNOLIA CHEMICALS AND SOLVENTS

Address:1020 SAMS AVENUE

Box:10276

City:NEW ORLEANS

State:LA

ZIP:70181-0278

Country:US

Phone:504-733-6600

CAGE:0LNB7

Company Name:SDB CONSULTANTS LTD

Address:401 WHITNEY AVE SUITE 120

Box:City:GRETN

State:LA

ZIP:70056

Country:US

Phone:504-366-9105

CAGE:0PGK2

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

Ingred Name:MORPH

OLINE  
CAS:110-91-8  
RTECS #:QD6475000  
Minumum % Wt:40.  
Maxumum % Wt:42.  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:S, 20 PPM  
ACGIH TLV:S, 20 PPM; 9596

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

LD50 LC50 Mixture:ORAL LD50 (RAT) IS 1.05 G/KG.  
Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:ACUTE: EXPOSURE MAY CAUSE SEVERE EYE,  
SKIN, RESPIRATORY TRACT IRRITATION. MAY CAUSE C  
HEMICAL BURNS TO  
SKIN AND EYES, BLINDNESS. INGESTION MAY CAUSE BURNS TO MUCOUS  
MEMBRANES OF MOUTH/THROAT/STOMACH. A SPIRATION MAY CAUSE LUNG  
DAMAGE. CHRONIC: PROLONGED OR REPEATED EXPOSURE MAY CAUSE  
DERMATITIS, LUNG DAMAGE.  
Explanation of Carcinogenicity:NO INGREDIENT OF A CONCENTRATION OF 0.1%  
OR GREATER IS LISTED AS A CARCINOGEN OR SUSPECTED CARCINOGEN.  
Effects of Overexposure:EYES-IRRITATION,PAIN,BLINKING/TEARS,EXTREME  
REDNESS & SWELLING,BURNS,BLINDNESS.SKIN-IRRITATION  
,PAIN,EXCESS  
REDNESS & SWELLING,CHEMICAL BURNS,BLISTERS,TISSUE  
DESTRUCTION.INHALED-NASAL DISCHARGE,COUGHIN G,DISCOMFORT IN  
NOSE/THROAT.INGESTED-BURNING OF MOUTH/THROAT,ABDOMINAL/CHEST  
PAIN,NAUSEA,VOMITING,DIARRHEA,THIRST.....  
Medical Cond Aggravated by Exposure:SKIN CONTACT MAY AGGRAVATE EXISTING  
DERMATITIS. OVEREXPOSURE TO VAPOR, DUST, MIST MAY AGGRAVATE  
EXISTING RESPIRATORY CONDITIONS, SUCH AS, ASTHMA, BRONCHITIS,  
INFLAMMATORY/FIBROTIC RESPIRATORY DISEASE.

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

First Aid:IN ALL CASES GET IMMEDIATE MEDICAL ATTENTION. EYES-FLUSH WITH  
WATER FOR 15 MINUTES, LIFT LIDS. SKIN-REMOVE CONTAMINATED CLOTHES.  
WASH WITH MILD SOAP & WATER. INHALED-REMOVE TO FRESH AIR.  
ADMINISTER OX YGEN OR ARTIFICIAL RESPIRATION AS NEEDED. INGESTED-IF  
EVACUATION OF STOMACH NECESSARY, USE METHOD LEAST LIKELY TO CAUSE  
ASPIRATION. CONTACT POISON CONTROL CENTER & OBTAIN IMMEDIATE  
MEDICAL ATTENTION!

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

Flash Point Method:TCC

Flash Point:195F,91C

Lower Limits:5

Upper Limits:16

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

Fire Fighting Procedures:WATER MAY BE INEFFECTIVE ON FLAMES BUT SHOULD BE USED TO COOL FIRE-EXPOSED CONTAINERS AND PROVIDE PROTECTION FOR PERSONS ATTEMPTING TO STOP THE LEAK.

Unusual Fire/Explosion Hazard:MATERIAL MAY RELEASE VAPORS THAT TRAVEL LONG DI

STANCES, IGNITE AND FLASH BACK. CONTAINERS MAY EXPLODE IN FIRE. USE NON-SPARKING TOOLS.

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

Spill Release Procedures:ELIMINATE ALL SOURCES OF IGNITION. VENTILATE AREA. BARRICADE IMMEDIATE AREA. STAY UPWIND. WEAR PROPER PERSONAL PROTECTIVE GEAR. CONTAIN SPILL IF FEASIBLE. REMOVE WITH INERT ABSORBENT. PREVENT ENTRY IN TO SEWERS AND WATERWAYS.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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Handling and Storage =====

Handling and Storage Precautions:STORE IN A COOL, DRY PLACE AWAY FROM SOURCES OF IGNITION AND INCOMPATIBLE MATERIALS. GROUND & BOND WHEN TRANSFERRING CONTENTS.

Other Precautions:USE NON-SPARKING TOOLS. MATERIAL MAY BE AT ELEVATED TEMPERATURE AND/OR PRESSURES. EXERCISE CARE WHEN OPENING BLEEDERS AND SAMPLING PORTS.

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

Respiratory Protection:IF ENGINEERING CONTROLS FAIL OR NON-ROUTINE USE

OR AN EMERGENCY OCCURS; WEAR AN MSHA/NIOSH APPROVED RESPIRATOR OR AN AIR-SUPPLIED RESPIRATOR OR SCBA, AS REQUIRED. USE IAW 29 CFR 1910.134.

Ventilation:USE ADEQUATE MECHANICAL VENTILATION OR LOCAL EXHAUST TO MAINTAIN EXPOSURE BELOW TLV(S).

Protective Gloves:NEOPRENE, NITRILE.

Eye Protection:GOGGLES W/FACESHIELD. NO CONTACT LENSES.

Other Protective Equipment:IF HANDLING LARGE QUANTITIES; IMPERVIOUS SUITE, GLOVES, RUBBER BOOTS. PROVIDE EYE WASH STATION AND SA

FETY  
SHOWER IN AREA  
Work Hygienic Practices:WASH HANDS AFTER HANDLING AND BEFORE EATING,  
DRINKING, OR SMOKING. LAUNDER CONTAMINATED CLOTHES BEFORE REUSE.  
Supplemental Safety and Health  
NONE.

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

HCC:B2  
Boiling Pt:=171.C, 339.8F  
Melt/Freeze Pt:=-28.C, -18.4F  
Vapor Pres:7  
Vapor Density:3  
Spec Gravity:1.0017  
pH:11.2  
Viscosity:2.2 CST @20C  
Solubility in Water:APPRECIABLE (>10%)  
Appearance and Odor:COLORLESS LIQUID. AMMONIA-LIKE ODOR.

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

Stability Indicator/Materials to Avoid:YES  
STRONG ACIDS, STRONG OXIDIZING AGENTS, NITRITES.  
Stability Condition to Avoid:AVOID HEAT. DO NOT ADD OR FORMULATE WITH  
NITRITES. THIS MATERIAL REACTS VIOLENTLY WITH ACIDS.  
Hazardous Decomposition Products:TOXIC LEVELS OF AMMONIA, COMBUSTION  
PRODUCTS OF NITROGEN, CARBON MONOXIDE, CARBON DIOXIDE, ALDEHYDES  
AND KETONES.  
Conditions to Avoid Polymerization:DO NOT OCCUR  
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===== Disposal Considerations =====

Waste Disposal Methods:HAS RCRA CHARACTERISTIC OF IGNITABILITY (D001)  
AS PURCHASED. UNDER RCRA IT IS THE RESPONSIBILITY OF THE USER TO  
DETERMINE, AT TIME OF DISPOSAL, WHETHER PRODUCT MEETS RCRA CRITERIA  
FOR HAZARDOUS WASTE.

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