

TEXACO CHEMICAL CO -- 70203 MORPHOLINE -- 6810-00-559-9889

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

Product ID:70203 MORPHOLINE

MSDS Date:12/06/1990

FSC:6810

NIIN:00-559-9889

MSDS Number: BRGJW

=== Responsible Party ===

Company Name:TEXACO CHEMICAL CO

Address:4800 FOURANCE PLACE

Box:27707

City:HOUSTON

State:TX

ZIP:77227

Country:US

Info Phone Num:914-838-7204MSDS(7336)/512-459-6543

Emergency Phone Num:9

14-831-3400/409-727-8381/424-9300

Preparer's Name:NONE

CAGE:19630

=== 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

Company Name:TEXACO CHEMICAL CO DIV OF TEXCAO INC

Address:4800 FOURNACE PL

Box:City:BELLAIRE

St

ate:TX  
ZIP:77401  
Country:US  
Phone:713-961-3711  
CAGE:19630  
Company Name:TEXACO REFINING AND MARKETING INC  
Address:1111 RUSK ST  
Box:City:HOUSTON  
State:TX  
ZIP:77002-3310  
Country:US  
Phone:713-650-5206  
CAGE:2R503

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

Ingred Name:MORPHOLINE  
CAS:110-91-8  
RTECS #:QD6475000  
Fraction by Wt: 40%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:S,20 PPM/30 STEL  
ACGIH TLV:S, 20 PPM; 9293

===== Hazards Identification =====  
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LD50 LC50 Mixture:LD50 (ORAL RAT) IS 1050 MG/KG  
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:ACUTE: EYES: SEVERE IRRITATION. SKIN:  
IRRITATION OR CHEMICAL BURNS UPON PROLONGED CONTACT. INHALATION:  
IRRITATION OF RESPIRATORY TRACT. INGESTION: MODERATELY TOXIC.  
Explanation of Carcinogenicity:NONE.  
Effects of Overexposure:EYES: SEVERE IRRITATION. SKIN: IRRITATION,  
CHEMICAL BURNS. IN  
HALATION: RESPIRATORY TRACT IRRITATION.  
INGESTION: MODERATELY TOXIC.  
Medical Cond Aggravated by Exposure:MAY AGGRAVATE EXISTING RESPIRATORY  
CONDITIONS, SUCH AS ASTHMA, BRONCHITIS AND INFLAMMATORY OR FIBROTIC  
RESPIRATORY DISEASE. MAY AGGRAVATE AN EXISTING DERMATITIS.

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

First Aid:EYES: FLUSH WITH LARGE AMOUNTS OF WATER. GET MEDICAL  
ATTENTION. SKIN: REMOVE CONTAMINATED CLOTHING. FLUSH AREA WITH  
LARGE AMOUNTS OF

WATER. GET MEDICAL ATTENTION. INHALATION: MOVE TO FRESH AIR. IF NOT BREATHING GIVE CPR. IF BREATHING DIFFICULT GIVE OXYGEN. GET MEDICAL ATTENTION. INGESTION: GIVE 2 GLASSES OF WATER. DO NOT INDUCE VOMITING. GET MEDICAL ATTENTION.

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

Flash Point:190F,88C  
Extinguishing Media:WATER FOG, FOAM, CARBON DIOXIDE.  
Fire Fighting Procedures:IF LEAK HAS NOT IGNITED, USE WATER SPRAY TO DISPERSE VAPORS AND TO PROTECT PERSONNEL ATTEMPTING TO STOP LEAK.  
WEAR SELF CONTAINED BREATHING APPARATUS.  
Unusual Fire/Explosion Hazard:DANGER! VAPOR IS HEAVIER THAN AIR AND CAN TRAVEL TO A SOURCE OF IGNITION AND FLASH BACK. EXPLOSIVE AIR-VAPOR MIXTURES MAY FORM. CONTAINERS MAY EXPLODE IN FIRE.

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

Spill Release Procedures:ELIMINATE SOURCES OF IGNITION. VENTILATE AREA. KEEP PEOPLE AWAY. STAY UPWIND AND WARN OF EXPLOSION HAZARD. USE SCBA AND AVOID SKIN/CLOTHING CONTACT. CONTAIN SPILL IF POSSIBLE.  
REMOVE WITH INERT ABSORBENT. PREVENT ENTRY TO SEWERS AND WATERWAYS.  
Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:STORE IN COOL, WELL VENTILATED AREA AWAY FROM HEAT, SPARKS, FLAME AND IGNITION SOURCES. USE SPARK-PROOF TOOLS.  
Other Precautions:GROUND AND BOND SHIPPING CONTAINER, TRANSFER LINE, AND RECEIVING CONTAINER. MATERIAL MAY BE AT ELEVATED TEMPERATURES AND/OR PRESSURES. EXERCISE CARE WHEN OPENING BLEEDERS AND SAMPLING PORTS.

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

Respiratory Protection:IF VAPOR, DUST OR MIST IS GENERATED, USE RESPIRATOR APPROVED BY NIOSH AS APPROPRIATE. USE SCBA WHEN CLEANING LARGE SPILLS OR FOR ENTRY TO TANKS, VESSELS OR OTHER CONFINED SPACES.  
Ventilation:PROVIDE ADEQUATE VENTILATION TO MAINTAIN TLV/PEL BELOW RECOMMENDED LIMITS.  
Pro

protective Gloves:IMPERVIOUS GLOVES.  
Eye Protection:CHEMICAL GOGGLES AND FACE SHIELD.  
Other Protective Equipment:EYE WASH STATION AND SAFETY SHOWER. WEAR  
UNIFORMS, COVERALLS,LAB COATS.WEAR IMPERVIOUS SUITS FOR HANDLING  
LARGE AMOUNTS.  
Work Hygienic Practices:WASH AFTER HANDLING AND BEFORE EATING,  
DRINKING, OR SMOKING. LAUNDRER CONTAMINATED CLOTHING BEFORE REUSE.  
Supplemental Safety and Health  
DO NOT WEAR CONTACT LENSES. "EMPTY" CONTAINERS MAY CONTAIN RESIDUE OR  
VAPOR. TREAT THEM WITH  
THE RESPECT DUE FULL ONES. DO NOT CUT, WELD,  
GRIND, DRILL, ETC. ON THEM.

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

HCC:B2  
Boiling Pt:B.P. Text:263F,128C  
Vapor Density:3.0  
Spec Gravity:1.0017  
pH:11.2  
Solubility in Water:APPRECIABLE  
Appearance and Odor:CLEAR, COLORLESS LIQUID. AMMONIA ODOR.  
Percent Volatiles by Volume:100

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

Stability Indicator/Materials to Avoid:YES  
STRONG OXIDIZING AGENTS, ACIDS,  
NITRATES.  
Stability Condition to Avoid:HIGH HEAT, SPARKS, OPEN FLAMES AND OTHER  
SOURCES OF IGNITION.  
Hazardous Decomposition Products:TOXIC LEVELS OF AMMONIA, COMBUSTION  
PRODUCTS OF NITROGEN, CARBON MONOXIDE, CARBON DIOXIDE, ALDEHYDES  
AND KETONES  
Conditions to Avoid Polymerization:WILL NOT OCCUR.

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

Waste Disposal Methods:DISPOSE IN ACCORDANCE WITH LOCAL,STATE AND  
FEDERAL REGULATIONS. PRODUCT HAS RCRA CHARACTERIST

ICS OF

IGNITIBILITY WITH RCRA WASTE NUMBER D001. USER HAS RESPONSIBILITY TO DETERMINE AT TIME OF DISPOSAL I F PRODUCT MEETS RCRA CRITERIA FOR HAZARDOUS WASTE.

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