

MATERIAL SAFETY DATA SHEET

FILE NUMBER:

NAME OF PRODUCT

MSDS DATE:

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME:
SYNONYMS:
PRODUCT CODES:

MANUFACTURER:
DIVISION:
ADDRESS:

EMERGENCY PHONE:
CHEMTREC PHONE:
OTHER CALLS:
FAX PHONE:

CHEMICAL NAME:
CHEMICAL FAMILY:
CHEMICAL FORMULA:

PRODUCT USE:
PREPARED BY:

SECTION 1 NOTES:

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT:

<u>CAS NO.</u>	<u>% WT</u>	<u>% VOL</u>	<u>SARA 313 REPORTABLE</u>
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<u>ppm</u>	<u>mg/m3</u>
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OSHA PEL-TWA:
OSHA PEL STEL :
OSHA PEL CEILING:

ACGIH TLV-TWA:
ACGIH TLV STEL:
ACGIH TLV CEILING:

SECTION 2 NOTES:

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

ROUTES OF ENTRY:

POTENTIAL HEALTH EFFECTS

EYES:

SKIN:

INGESTION:

INHALATION:

ACUTE HEALTH HAZARDS:

CHRONIC HEALTH HAZARDS:

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

CARCINOGENICITY

OSHA: ACGIH: NTP: IARC:

OTHER:

SECTION 3 NOTES:

SECTION 4: FIRST AID MEASURES

EYES:

SKIN:

INGESTION:

INHALATION:

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:

SECTION 4 NOTES:

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR, UPPER:
(% BY VOLUME) LOWER:

FLASH POINT:

F:

C:

METHOD USED:

AUTOIGNITION TEMPERATURE:

|F:

C:

NFPA HAZARD CLASSIFICATION

HEALTH: FLAMMABILITY: REACTIVITY:

OTHER:

HMIS HAZARD CLASSIFICATION

HEALTH: FLAMMABILITY: REACTIVITY:

PROTECTION:

EXTINGUISHING MEDIA:

SPECIAL FIRE FIGHTING PROCEDURES:

UNUSUAL FIRE AND EXPLOSION HAZARDS:

HAZARDOUS DECOMPOSITION PRODUCTS:

SECTION 5 NOTES:

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES:

SECTION 6 NOTES:

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE:

OTHER PRECAUTIONS:

SECTION 7 NOTES:

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:

VENTILATION :

RESPIRATORY PROTECTION:

EYE PROTECTION:

SKIN PROTECTION:

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

WORK HYGIENIC PRACTICES:

EXPOSURE GUIDELINES:

SECTION 8 NOTES:

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:

ODOR:

PHYSICAL STATE:

pH AS SUPPLIED:

pH (Other):

BOILING POINT:

F:

C:

MELTING POINT:

F:

C:

FREEZING POINT:

F:

C:

VAPOR PRESSURE (mmHg):

@

F:

C:

VAPOR DENSITY (AIR = 1):

@

F:

C:

SPECIFIC GRAVITY (H2O = 1):

@

F:

C:

EVAPORATION RATE:

BASIS (=1):

SOLUBILITY IN WATER:

PERCENT SOLIDS BY WEIGHT:

PERCENT VOLATILE:

BY WT/

BY VOL @
F:
C:

VOLATILE ORGANIC COMPOUNDS (VOC):
WITH WATER: LBS/GAL
WITHOUT WATER: LBS/GAL

MOLECULAR WEIGHT:
VISCOSITY:
@
F:
C:

SECTION 9 NOTES:

SECTION 10: STABILITY AND REACTIVITY

STABLE UNSTABLE

STABILITY:

CONDITIONS TO AVOID (STABILITY):

INCOMPATIBILITY (MATERIAL TO AVOID):

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:

HAZARDOUS POLYMERIZATION:

CONDITIONS TO AVOID (POLYMERIZATION):

SECTION 10 NOTES:

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION:

SECTION 11 NOTES:

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION:

SECTION 12 NOTES:

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD:

RCRA HAZARD CLASS:

SECTION 13 NOTES:

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION
PROPER SHIPPING NAME:
HAZARD CLASS:
ID NUMBER:
PACKING GROUP:
LABEL STATEMENT:

WATER TRANSPORTATION
PROPER SHIPPING NAME:
HAZARD CLASS:
ID NUMBER:
PACKING GROUP:
LABEL STATEMENTS:

AIR TRANSPORTATION
PROPER SHIPPING NAME:
HAZARD CLASS:
ID NUMBER:
PACKING GROUP:
LABEL STATEMENTS:

OTHER AGENCIES:

SECTION 14 NOTES:

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS
TSCA (TOXIC SUBSTANCE CONTROL ACT):

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT):

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):

311/312 HAZARD CATEGORIES:

313 REPORTABLE INGREDIENTS:

STATE REGULATIONS:

INTERNATIONAL REGULATIONS:

SECTION 15 NOTES:

SECTION 16: OTHER INFORMATION

OTHER INFORMATION:

PREPARATION INFORMATION:

DISCLAIMER: