

## MATERIAL SAFETY DATA SHEET

### *meta*-CRESOL

#### CHEMICAL IDENTIFICATION

CAS #: 108-39-4

MF: C<sub>7</sub>H<sub>8</sub>O

EC NO: 203-577-9

#### SYNONYMS

3-CRESOL; M-CRESOL (ACGIH:OSHA); M-CRESOLE; M-CRESYLIC ACID; 1-HYDROXY-3-METHYLBENZENE; M-HYDROXYTOLUENE; 3-HYDROXYTOLUENE; M-KRESOL; M-METHYLPHENOL; 3-METHYLPHENOL; M-OXYTOLUENE; PHENOL, 3-METHYL- (9CI); M-TOLUOL.

RCRA WASTE NUMBER U052

#### HAZARDS IDENTIFICATION

##### LABEL PRECAUTIONARY STATEMENTS

TOXIC

TOXIC IN CONTACT WITH SKIN AND IF SWALLOWED.

CAUSES BURNS.

READILY ABSORBED THROUGH SKIN.

COMBUSTIBLE.

TARGET ORGAN(S): CENTRAL NERVOUS SYSTEM; LUNGS

COMBUSTIBLE LIQUID.

DO NOT BREATHE VAPOR.

IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE.

WEAR SUITABLE PROTECTIVE CLOTHING, GLOVES AND EYE/FACE PROTECTION.

IN CASE OF ACCIDENT OR IF YOU FEEL UNWELL, SEEK MEDICAL ADVICE IMMEDIATELY (SHOW THE LABEL WHERE POSSIBLE).

MOISTURE SENSITIVE

#### FIRST-AID MEASURES

IF SWALLOWED, WASH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS.

CALL A PHYSICIAN IMMEDIATELY.

DO NOT INDUCE VOMITING.

IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN.

IN CASE OF SKIN CONTACT, FLUSH WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. REMOVE CONTAMINATED CLOTHING AND SHOES. CALL A PHYSICIAN.

IN CASE OF CONTACT WITH EYES, FLUSH WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. ASSURE ADEQUATE FLUSHING BY SEPARATING THE EYELIDS WITH FINGERS. CALL A PHYSICIAN.

#### FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: CARBON DIOXIDE, DRY CHEMICAL POWDER OR APPROPRIATE FOAM.

#### SPECIAL FIREFIGHTING PROCEDURES

WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND EYES.

UNUSUAL FIRE AND EXPLOSIONS HAZARDS: EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

#### ACCIDENTAL RELEASE MEASURES

WEAR SELF-CONTAINED BREATHING APPARATUS, RUBBER BOOTS AND HEAVY RUBBER GLOVES.  
COVER WITH DRY LIME OR SODA ASH, PICK UP, KEEP IN A CLOSED CONTAINER AND HOLD FOR WASTE DISPOSAL.  
VENTILATE AREA AND WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE.  
EVACUATE AREA.

#### HANDLING AND STORAGE/EXPOSURE CONTROLS/PERSONAL PROTECTION

USE ONLY IN A CHEMICAL FUME HOOD.  
SAFETY SHOWER AND EYE BATH.  
WASH CONTAMINATED CLOTHING BEFORE REUSE.  
DISCARD CONTAMINATED SHOES.  
WASH THOROUGHLY AFTER HANDLING.  
DO NOT BREATHE VAPOR.  
DO NOT GET IN EYES, ON SKIN, ON CLOTHING.  
AVOID PROLONGED OR REPEATED EXPOSURE.  
NIOSH/MSHA-APPROVED RESPIRATOR.  
COMPATIBLE CHEMICAL-RESISTANT GLOVES.  
CHEMICAL SAFETY GOGGLES.  
FACESHIELD (8-INCH MINIMUM).  
KEEP TIGHTLY CLOSED.  
STORE IN A COOL DRY PLACE.

#### PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: COLORLESS TO FAINT YELLOW LIQUID OR  
BOILING POINT: 203°C  
MELTING POINT: 8°C TO 10°C  
FLASHPOINT: 187°F  
EXPLOSION LIMITS IN AIR: UPPER 1.35% 150°C; LOWER 1.06% 150°C  
AUTOIGNITION TEMPERATURE: 1036°F  
VAPOR PRESSURE: <1MM 20°C  
SOLUBILITY: MISCIBLE IN ALC; SOLUBLE IN ACET  
SPECIFIC GRAVITY: 1.034  
VAPOR DENSITY: 3.72  
VISCOSITY 1.207 PAS  
SWISS POISON CLASS: 3

#### STABILITY AND REACTIVITY

STABILITY: STABLE.  
INCOMPATIBILITIES: SENSITIVE TO MOISTURE; STRONG OXIDIZING AGENTS  
HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS: CARBON MONOXIDE, CARBON DIOXIDE  
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

#### TOXICOLOGICAL INFORMATION

ACUTE EFFECTS  
CAUSES BURNS.  
TOXIC IF ABSORBED THROUGH SKIN.  
TOXIC IF INHALED.

MATERIAL IS EXTREMELY DESTRUCTIVE TO THE TISSUE OF THE MUCOUS MEMBRANES AND UPPER RESPIRATORY TRACT.

TOXIC IF SWALLOWED.

INHALATION MAY RESULT IN SPASM, INFLAMMATION AND EDEMA OF THE LARYNX AND BRONCHI, CHEMICAL PNEUMONITIS AND PULMONARY EDEMA. SYMPTOMS OF EXPOSURE MAY INCLUDE BURNING SENSATION, COUGHING, WHEEZING, LARYNGITIS, SHORTNESS OF BREATH, HEADACHE, NAUSEA AND VOMITING.

TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL, AND TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED.

#### CHRONIC EFFECTS

TARGET ORGAN(S): CENTRAL NERVOUS SYSTEM; LUNGS; LIVER, KIDNEYS; EYES

RTECS #: GO6125000

#### IRRITATION DATA

SKN-RBT 517 MG/24H SEV (BIOFX\* 3-5/1969)

EYE-RBT 103 MG SEV (BIOFX\* 3-5/1969)

#### TOXICITY DATA

ORL-RAT LD50:242 MG/KG (BIOFX\* 3-5/1969)

IHL-RAT LC50:>710 MG/M3/1H (BIOFX\* 3-5/1969)

SKN-RAT LD50:1100 MG/KG (GTPZAB 18(2),58,1974)

ORL-MUS LD50:828 MG/KG (GTPZAB 18(2),58,1974)

IPR-MUS LD50:168 MG/KG (HBTXAC 5,56,1959)

UNR-MUS LD50:600 MG/KG (GTPPAF 8,145,1972)

SKN-RBT LD50:2050 MG/KG (BIOFX\* 3-5/1969)

#### TARGET ORGAN DATA

BEHAVIORAL (SOMNOLENCE)

BEHAVIORAL (CONVULSIONS OR EFFECT ON SEIZURE THRESHOLD)

GASTROINTESTINAL (PERITONITIS)

ONLY SELECTED REGISTRY OF TOXIC EFFECTS OF CHEMICAL

SUBSTANCES(RTECS) DATA IS PRESENTED HERE. SEE ACTUAL ENTRY IN

RTECS FOR COMPLETE INFORMATION.

#### ECOLOGICAL INFORMATION

DATA NOT YET AVAILABLE.

#### DISPOSAL CONSIDERATIONS

CONTACT A LICENSED PROFESSIONAL WASTE DISPOSAL SERVICE TO DISPOSE OF THIS MATERIAL.

DISSOLVE OR MIX THE MATERIAL WITH A COMBUSTIBLE SOLVENT AND BURN IN A CHEMICAL INCINERATOR EQUIPPED WITH AN AFTERBURNER AND SCRUBBER.

OBSERVE ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS.

#### REGULATORY INFORMATION

EUROPEAN INFORMATION

EC INDEX NO: 604-004-00-9

TOXIC (R 24/25)

TOXIC IN CONTACT WITH SKIN AND IF SWALLOWED. (R 34)

CAUSES BURNS. (S 36/37/39)

WEAR SUITABLE PROTECTIVE CLOTHING, GLOVES AND EYE/FACE PROTECTION. (S 45)  
IN CASE OF ACCIDENT OR IF YOU FEEL UNWELL, SEEK MEDICAL ADVICE IMMEDIATELY (SHOW THE LABEL WHERE POSSIBLE).

#### REVIEWS, STANDARDS, AND REGULATIONS

OEL=MAK

ACGIH TLV-TWA 5 PPM (SKIN) (DTLVS\* TLV/BEI,1999)

EPA FIFRA 1988 PESTICIDE SUBJECT TO REGISTRATION OR RE-REGISTRATION (FEREAC 54,7740,1989)

MSHA STANDARD-AIR:TWA 5 PPM (22 MG/M3) (DTLVS\* 3,61,1971)

OSHA PEL (GEN INDU):8H TWA 5 PPM (22 MG/M3) (SKIN) (CFRGBR 29,1910.1000,1994)

OSHA PEL (CONSTRUC):8H TWA 5 PPM (22 MG/M3) (SKIN) (CFRGBR 29,1926.55,1994)

OSHA PEL (SHIPYARD):8H TWA 5 PPM (22 MG/M3) (SKIN) (CFRGBR 29,1915.1000,1993)

OSHA PEL (FED CONT):8H TWA 5 PPM (22 MG/M3) (SKIN) (CFRGBR 41,50-204.50,1994)

OEL-AUSTRIA: MAK 5 PPM (22 MG/M3), SKIN, JAN1999

OEL-DENMARK: TWA 5 PPM (22 MG/M3), SKIN, JAN1999

OEL-FRANCE: VME 5 PPM (22 MG/M3), JAN1999

OEL-JAPAN: OEL 5 PPM (22 MG/M3), JAN1999

OEL-THE NETHERLANDS: MAC-TGG 5 PPM (22 MG/M3), SKIN, JAN1999

OEL-NORWAY: TWA 5 PPM (22 MG/M3), JAN1999

OEL-UNITED KINGDOM: TWA 5 PPM (22 MG/M3), SKIN, SEP2000

OEL IN ARGENTINA, BULGARIA, COLOMBIA, JORDAN, KOREA CHECK ACGIH TLV;

OEL IN NEW ZEALAND, SINGAPORE, VIETNAM CHECK ACGIH TLV

NIOSH REL TO M-CRESOL-AIR:10H TWA 2.3 PPM

NIOSH\* DHHS #92-100,1992

NOHS 1974: HZD 84497; NIS 16; TNF 1317; NOS 20; TNE 11161

NOES 1983: HZD 84497; NIS 5; TNF 144; NOS 11; TNE 5615; TFE 1174

EPA TSCA SECTION 8(B) CHEMICAL INVENTORY

EPA TSCA 8(A) PRELIMINARY ASSESSMENT INFORMATION, FINAL RULE

FEREAC 47,26992,82

EPA TSCA SECTION 8(D) UNPUBLISHED HEALTH/SAFETY STUDIES ON EPA IRIS DATABASE

EPA TSCA TEST SUBMISSION (TSCATS) DATA BASE, JANUARY 2001

NIOSH ANALYTICAL METHOD, 1994: CRESOL (ALL ISOMERS) AND PHENOL, 2546

NIOSH ANALYTICAL METHOD, 1996: VOLATILE ORGANIC COMPOUND, 2549

NTP TOXICITY STUDIES, RPT# TOX-09, OCTOBER 2000

U.S. INFORMATION: THIS PRODUCT IS SUBJECT TO SARA SECTION 313

REPORTING REQUIREMENTS.