



# MATERIAL SAFETY DATA SHEET

- a) Eyes - Can cause severe irritation, redness, tearing, blurred vision.
- b) Skin - Prolonged or repeated contact can cause moderate irritation, defatting, dermatitis.
- c) Inhalation - Excessive inhalation of vapors can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness and even asphyxiation.
- d) Ingestion - Can cause gastro-intestinal irritation, nausea, vomiting and diarrhea.

## \*Chronic\*

- a) Inhalation may increase susceptibility to respiratory illness.
- b) Overexposure to some of the components (in it's pure state) has apparently been found to cause anemia, liver abnormalities, kidney damage, lung damage and blood abnormalities in laboratory animals.

## PRIMARY ROUTES OF ENTRY:

- a) Skin
- b) Inhalation

## MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

Pre-existing skin, eye and respiratory disorders may be aggravated by exposure to product.

## EMERGENCY FIRST AID PROCEDURES:

- a) Skin - Immediately flush skin with lots of running water for at least 30 minutes. Remove contaminated clothing and shoes. Wash before reuse.
- b) Eyes - Flush immediately with large quantities of running water for at least 15 minutes. Consult a physician.
- c) Inhalation - If affected, remove individual to fresh air. If breathing is difficult, administer oxygen. If breathing has stopped, give artificial respiration. Keep person warm, quiet and get medical attention.
- d) Ingestion - Do not induce vomiting. call physician immediately. If conscious give lots of water or milk. Do not give anything by mouth to an unconscious or convulsing person.

## SECTION 4 - CHEMICAL DATA

BOILING POINT (F) . . . . . : >231-290°F SPECIFIC GRAVITY (WATER=1) . . . . . : 0.76

VAPOR PRESSURE (mmHg) : < 2 PERCENT VOLATILE BY VOLUME (%) . . . : > 100

VAPOR DENSITY (AIR=1) : > 1 EVAPORATION RATE (WATER=1) . . . . . : < 1

SOLUBILITY IN WATER: insoluble in water.

APPEARANCE AND ODOR INFORMATION: Colorless liquid with solvent odor.

## SECTION 5 - FIRE + PHYSICAL HAZARD DATA

FLASH POINT (Method Used): 48 °F (TOC)

FLAMMABLE LIMITS: LEL= 1.0% UEL=N/E

# MATERIAL SAFETY DATA SHEET

## EXTINGUISHING MEDIA:

Regular foam, waterfog, carbon dioxide, or dry chemicals.

## SPECIAL FIRE FIGHTING PROCEDURES:

Clear fire area of unprotected personnel. Do not enter confined fire area without full bunker gear, including a positive pressure mode breathing apparatus.

## UNUSUAL FIRE AND EXPLOSION HAZARDS:

Vapors are heavier than air and may travel along the ground or be moved by ventilation and ignited by heat, pilot lights or other flames and ignition sources at an location distant from the material handling point. \*See additional comment.

## INCOMPATIBILITY ( Material To Avoid ):

Avoid contact with strong oxidizing agents such as chlorine, permanganate, etc.

## HAZARDOUS DECOMPOSITION PRODUCTS:

Burning may produce oxides of carbon and traces of hydrocarbons.

HAZARDOUS POLYMERIZATION WILL NOT OCCUR

THIS PRODUCT IS STABLE

### SECTION 6 - SPILL OR LEAK PROCEDURES

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

Eliminate all ignition sources. Absorb on suitable absorbant and shovel into containers.

## WASTE DISPOSAL METHODS:

Contaminated absorbant may be disposed of according to local, state and federal regulations for products containing petroleum distillates.

### SECTION 7 - EXPOSURE CONTROL INFORMATION

## VENTILATION:

LOCAL EXHAUST: Below TLV(s)      MECHANICAL (General) : Explosion Proof

SPECIAL . . . . . : N/A                      OTHER . . . . . : N/A

## RESPIRATORY PROTECTION:

If TLV of the product or any component is exceeded, a NIOSH/MSHA jointly approved air supplied air respirator advised in absence or proper environmental control.

## PROTECTIVE GLOVES:

Wear - resistant gloves such as nitrile rubber, PVC, etc.

## OTHER PROTECTIVE EQUIPMENT:

a) To prevent repeated and prolonged skin contact, wear impervious clothing and

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boots.

- b) Eye wash and quick drench facilities.

OTHER ENGINEERING CONTROLS: None Known

WORK PRACTICES:

Eye wash fountain and safety shower should be easily accessible. Discard properly such items as rags and trash soaked with the product. Provide adequate ventilation.

HYGIENIC PRACTICES:

Avoid contact with eyes, skin and clothing. Avoid inhalation of product vapors. Wash thoroughly after handling and before eating, drinking or smoking. Remove contaminated clothing promptly and wash thoroughly before reused.

## SECTION 8 - SPECIAL PRECAUTION

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

- a) Protect from physical damage and keep tightly closed.
- b) Keep away from heat, sparks and open flames.
- c) Containers to be marked UN 1307 FLAMMABLE LIQUID

MAINTENANCE PRECAUTIONS:

When working with FLAMMABLE material electrically ground all equipment and use only non-sparking tools.

OTHER PRECAUTIONS:

- a) containers, even those that have been emptied will retain product residue and vapors. Always obey hazard warnings.
- b) Always ground metal containers while pouring.

OTHER ADDITIONAL COMMENTS:

- \* Special Fire Fighting Procedures.
  - a) Cool fire exposed containers with water fog.
  - b) FLAMMABLE - Keep containers tightly closed and keep away from heat and open flame. In case of fire containers cool with water spray using fog nozzles.

OTHER COMMENTS

- \* Unusual Fire and Explosion Hazards
  - a) Never use welding or cutting torch on or near container (even empty) because product (even residue) can ignite explosively.
  - b) All 5 gallon pails and larger metal containers should be grounded when material is transferred.

SHIPPING INFO, UN/NA #'s, Secondary container label INFO NECESSARY OR SUGGESTED:

**TOLUENE, 3, UN-1294 PKG. GP. II FLAMMABLE LIQUID**

**KEEP OUT OF THE REACH OF CHILDREN!**