OMB No. 44-R1387

Occupational Safety and Health Administration

# MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing, Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

## SECTION I

| | |
|---|---|
| MANUFACTURER'S NAME<br>Hercules Chemical Company, Inc. | EMERGENCY TELEPHONE NO.<br>1-212-869-4330 |
| ADDRESS (Number, Street, City, State, and ZIP Code)<br>29 W. 38th Street, New York, N.Y. 10018-1777 | |
| CHEMICAL NAME AND SYNONYMS<br>Petroleum Solvent | TRADE NAME AND SYNONYMS<br>PLASTIC PIPE & FITTINGS CLNR |
| CHEMICAL FAMILY<br>Oxygenated Solvent | FORMULA<br>Methyl Ethyl Ketone. |

## SECTION II - HAZARDOUS INGREDIENTS

| PAINTS, PRESERVATIVES, & SOLVENTS | % | TLV (Units) | ALLOYS AND METALLIC COATINGS | % | TLV (Units) |
|---|---|---|---|---|---|
| PIGMENTS | | | BASE METAL | | |
| CATALYST | | | ALLOYS | | |
| VEHICLE | | | METALLIC COATINGS | | |
| SOLVENTS | | | FILLER METAL PLUS COATING OR CORE FLUX | | |
| ADDITIVES | | | OTHERS | | |
| OTHERS | | | | | |

| HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES | % | TLV (Units) |
|---|---|---|
| | | |
| Methyl Ethyl Ketone (CAS78-93-3) | | 200 PPM |
| | | |
| | | |

## SECTION III - PHYSICAL DATA

| | | | |
|---|---|---|---|
| BOILING POINT (°F.) | 175 | SPECIFIC GRAVITY ($H_2O$=1) | .81 |
| VAPOR PRESSURE (mm Hg.) (20°C) | 70 | PERCENT, VOLATILE BY VOLUME (%) | 100 |
| VAPOR DENSITY (AIR=1) | 2.5 | EVAPORATION RATE (_____ =1) | 5.7 |
| SOLUBILITY IN WATER (20°C) | 26.8% | | |
| APPEARANCE AND ODOR | Clear liquid. Acetone like odor. | | |

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

| | | | | |
|---|---|---|---|---|
| FLASH POINT (Method used) | 22°F TDC | FLAMMABLE LIMITS | LEL ~~1.57~~% | UEL ~~11.0~~% |

EXTINGUISHING MEDIA
Carbon dioxide or dry chemical.

SPECIAL FIRE FIGHTING PROCEDURES
Use carbon dioxide or dry chemical for small fires. Use "alcohol" type foam for large fires. Use spray nozzle discharge to assist in controlling the fire. Handle as flammable liquid.

UNUSUAL FIRE AND EXPLOSION HAZARDS
Vapor is heavier than air and may travel considerable distance to source of ignition and flashback.



(Continued on reverse side)

## SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE
Methyl Ethyl Ketone 200 PPM

EFFECTS OF OVEREXPOSURE
Dizziness, headache; lack of coordination. Severe overexposure to vapor can cause narcosis. Eye, throat & nose irritant.

EMERGENCY AND FIRST AID PROCEDURES
Vapors: remove to fresh air, give artificial respiration & oxygen if necessary. Liquid: remove contaminated clothing & wash affected skin with soap & water. Flush eyes thoroughly at least 15 minutes & consult physician.

## SECTION VI - REACTIVITY DATA

| STABILITY | | | CONDITIONS TO AVOID |
|---|---|---|---|
| | UNSTABLE | | Sparks & open flame. |
| | STABLE | X | |

INCOMPATABILITY (Materials to avoid)
Avoid contact with strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS
May form carbon dioxide, carbon monoxide & various hydrocarbons, etc.

| HAZARDOUS POLYMERIZATION | | | CONDITIONS TO AVOID |
|---|---|---|---|
| | MAY OCCUR | | Avoid excessive exposure to air |
| | WILL NOT OCCUR | X | or oxygen. |

## SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
Eliminate all ignition sources. Flush with water. Avoid flushing into confined areas. Avoid prolonged breathing of vapors. Keep liquid out of eyes.

WASTE DISPOSAL METHOD
Incinerate

## SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type) Self contained breathing apparatus. Positive pressure of airline masks, air pack or organic canister.

| VENTILATION | | |
|---|---|---|
| | LOCAL EXHAUST: As required | SPECIAL |
| | MECHANICAL (General) | OTHER |

PROTECTIVE GLOVES
PVA Gloves

EYE PROTECTION
Chemical safety goggles.

OTHER PROTECTIVE EQUIPMENT
Aprons, boots, eye bath, safety shower.

## SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING
Flammable. Prevent skin contact to avoid defatting action.

OTHER PRECAUTIONS
Use normal good personal hygiene.