

24115

| SECTION V - HEALTH HAZARD DATA     |                                                                                                                                                 |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| THRESHOLD LIMIT VALUE              | 5 mg/cubic meter in air                                                                                                                         |
| EFFECTS OF OVEREXPOSURE            | Eye - mild transient irritation. Skin - repeated or prolonged skin contact can cause defatting of skin.                                         |
| EMERGENCY AND FIRST AID PROCEDURES | Skin - remove by wiping or applying waterless hand cleaner, followed by washing with soap and water. Eyes - wash with copious amounts of water. |

| SECTION VI - REACTIVITY DATA         |                                   |                     |                     |
|--------------------------------------|-----------------------------------|---------------------|---------------------|
| STABILITY                            | UNSTABLE                          | CONDITIONS TO AVOID |                     |
|                                      | STABLE                            | X                   |                     |
| INCOMPATIBILITY (Materials to avoid) | Strong oxidants                   |                     |                     |
| HAZARDOUS DECOMPOSITION PRODUCTS     | Carbon monoxide, oxides of sulfur |                     |                     |
| HAZARDOUS POLYMERIZATION             | MAY OCCUR                         | WILL NOT OCCUR      | CONDITIONS TO AVOID |
|                                      |                                   | X                   |                     |

| SECTION VII - SPILL OR LEAK PROCEDURES                    |            |
|-----------------------------------------------------------|------------|
| STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED |            |
| Handle as an oil spill - use oil absorbing material       |            |
| WASTE DISPOSAL METHOD                                     | Incinerate |

| SECTION VIII - SPECIAL PROTECTION INFORMATION                   |                                                                                 |                |                                              |
|-----------------------------------------------------------------|---------------------------------------------------------------------------------|----------------|----------------------------------------------|
| RESPIRATORY PROTECTION (Specify type)                           |                                                                                 |                |                                              |
| VENTILATION                                                     | LOCAL EXHAUST As needed to maintain compliance with T.L.V. MECHANICAL (General) | SPECIAL        | OTHER                                        |
| PROTECTIVE GLOVES                                               | Not normally needed                                                             | EYE PROTECTION | Goggles if oil is being sprayed or splashed. |
| OTHER PROTECTIVE EQUIPMENT                                      |                                                                                 |                |                                              |
| Gloves recommended if prolonged skin contact cannot be avoided. |                                                                                 |                |                                              |

| SECTION IX - SPECIAL PRECAUTIONS                                                                         |  |
|----------------------------------------------------------------------------------------------------------|--|
| PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE                                                          |  |
| No special precautions needed normally. However, avoid breathing of oil mist and excessive skin contact. |  |
| OTHER PRECAUTIONS                                                                                        |  |
| Storage per N.F.P.A. Class 3-B                                                                           |  |
| (Flash point in excess of 200°F.)                                                                        |  |

| U.S. DEPARTMENT OF LABOR<br>Occupational Safety and Health Administration                                                      |  | OMB NO. 44-11387 |
|--------------------------------------------------------------------------------------------------------------------------------|--|------------------|
| <h1>MATERIAL SAFETY DATA SHEET</h1>                                                                                            |  |                  |
| Required under USDL Safety and Health Regulations for Ship Repairing, Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917) |  |                  |

| SECTION I                                           |                               |
|-----------------------------------------------------|-------------------------------|
| MANUFACTURER'S NAME                                 | EMERGENCY TELEPHONE NO.       |
| Hercules Chemical Company, Inc.                     | 212-869-4330                  |
| ADDRESS (Number, Street, City, State, and ZIP Code) |                               |
| 29 W. 38th Street, New York, N.Y. 10018             |                               |
| CHEMICAL NAME AND SYNONYMS                          | TRADE NAME AND SYNONYMS       |
| Cutting Oil                                         | HERCULES CLR. OR DARK CUTTING |
| CHEMICAL FAMILY                                     | FORMULA                       |
| Sulfurized Petroleum Oil                            | OIL                           |

| 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 CURE FLUX |   |             |
| ADDITIVES                                                                                                                                                                            |   |             | OTHERS                                 |   |             |
| OTHERS                                                                                                                                                                               |   |             |                                        |   |             |
| HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES                                                                                                                                |   |             |                                        | % | TLV (Units) |
| This product is a sulfurized mineral oil. It is not considered as a "hazardous material" in normal use as defined in U.S. Dept. of Labor Regulations 29 CFR Parts 1501, 1502 & 1503. |   |             |                                        |   |             |
| This product does not contain organic amines, nitrites or nitrosamine contaminations.                                                                                                |   |             |                                        |   |             |

| SECTION III - PHYSICAL DATA                              |        |                                       |             |
|----------------------------------------------------------|--------|---------------------------------------|-------------|
| BOILING POINT (°F.)                                      | N.D.   | SPECIFIC GRAVITY (H <sub>2</sub> O=1) | .898 to .92 |
| VAPOR PRESSURE (mm Hg.)                                  | N.D.   | PERCENT. VOLATILE BY VOLUME (%)       | N.D.        |
| VAPOR DENSITY (AIR=1)                                    | N.D.   | EVAPORATION RATE (—=1)                | N.D.        |
| SOLUBILITY IN WATER                                      | Insol. |                                       |             |
| APPEARANCE AND ODOR                                      |        |                                       |             |
| Clear, light, amber liquid; Dark, brownish-black liquid. |        |                                       |             |

| SECTION IV - FIRE AND EXPLOSION HAZARD DATA                                           |                                    |                  |      |
|---------------------------------------------------------------------------------------|------------------------------------|------------------|------|
| FLASH POINT (Method used)                                                             | 365°F. COC                         | FLAMMABLE LIMITS | N.D. |
| EXTINGUISHING MEDIA                                                                   | Dry chemical, foam, carbon dioxide |                  |      |
| SPECIAL FIRE FIGHTING PROCEDURES                                                      |                                    |                  |      |
| None - recommend self-contained breathing gear when fire fighting in confined spaces. |                                    |                  |      |
| UNUSUAL FIRE AND EXPLOSION HAZARDS                                                    |                                    |                  |      |
| None                                                                                  |                                    |                  |      |