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**MATERIAL SAFETY DATA SHEET**

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 Supplier: CS Unitec, Inc.

Date Prepared: 3/20/03

22 Harbor Avenue  
 Norwalk, CT 06820

**1 PRODUCT IDENTIFICATION**

PRODUCT NAME: CS 7010-504  
 SYNONYMS: 100A; HHL 70104; DPM 6005; 70104-P  
 CHEMICAL FAMILY: Proprietary  
 PRODUCT USE: Metalworking Lubricant

**NFPA**

Health - 1  
 Flammability - 1  
 Reactivity - 0

**2 PRECAUTIONARY INFORMATION**

This product is not known or expected to be hazardous.

**3 HAZARDOUS INGREDIENTS / IDENTITY INFORMATION**

COMPONENTS	OSHA	OSHA	ACGIH	ACGIH	CAS #	%
PEL	TWA	TLV-TWA	TLV-STEL			

This Material Safety Data Sheet has been prepared under guidelines in OSHA Hazard Communication Standard 29 CFR 1910.1200.

No known hazardous ingredients present in product. Exposure limits not established.

Product is not hazardous per Workplace Hazardous Materials Information System (WHMIS).  
 None of the components of this product at concentrations greater than or equal to 0.1% are listed as a carcinogen or potential carcinogen by NTP, IARC, and OSHA.

**4 HEALTH HAZARD DATA**

EYE: Excessive exposure may result in transient irritation.  
 SKIN: Excessive exposure may result in transient irritation in some individuals.  
 INGESTION: Not an expected route of exposure. Non-toxic by oral dosing in rats.  
 INHALATION: Excessive exposure may result in respiratory irritation in some individuals.  
 EFFECTS OF OVEREXPOSURE: Prolonged and/or repeated inhalation may cause irritation to mucous membranes and respiratory passages. Prolonged and/or repeated contact can cause varying degrees of skin and eye irritation.

**5 FIRST AID MEASURES**

SKIN: Wash off with plenty of soap and water.  
 EYE: Flush with large amounts of water. If any irritation persists, get medical attention.  
 INGESTION: Remove material from mouth. Drink plenty of water. If large amount swallowed or symptoms develop, get medical attention.  
 INHALATION: Remove to fresh air. If victim has stopped breathing, give artificial respiration. Get medical attention.

**6 EXPOSURE CONTROLS / PERSONAL PROTECTION**

ENGINEERING MEASURES: Depending on the concentration in air, ensure ventilation or local exhaust especially for enclosed space.  
 HYGIENE MEASURES: Good industrial hygiene should be followed.  
 OCCUPATIONAL EXPOSURE LIMITS: No occupational exposure limits have been established.  
 PERSONAL PROTECTIVE EQUIPMENT: Normal precautions should be observed.

**7 PHYSICAL / CHEMICAL PROPERTIES**

PHYSICAL STATE: Liquid  
 COLOR: Red  
 ODOR: Faint  
 BOILING POINT: 190 C @ 11.25 mm Hg  
 CLOUD POINT: < 0 C  
 VAPOR PRESSURE: < 0.1 mm Hg @ 20 C

VAPOR DENSITY: Heavier than air  
SPECIFIC GRAVITY: ~0.85 g/ml @ 25 C  
DENSITY: ~7.1 lb/gal  
SOLUBILITY IN WATER: Insoluble  
VOC CONTENT: Non-volatile

## 8 STABILITY / REACTIVITY

STABILITY: Stable under normal conditions.  
HAZARDOUS POLYMERIZATION: Will not occur.  
HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition will evolve oxides of carbon.  
MATERIALS TO AVOID: Oxidizing agents.

## 9 FIRE / EXPLOSION DATA

FLASH POINT: (COC) 180 C (356 F)  
AUTOIGNITION TEMPERATURE: Not Available.  
UNUSUAL FIRE AND EXPLOSION HAZARDS: None expected.  
EXTINGUISHING MEDIA: Foam, dry chemical, carbon dioxide, water spray.  
SPECIAL FIRE FIGHTING PROCEDURES: Use air-supplied breathing equipment for enclosed areas. Water or foam may cause frothing which can be violent, especially if sprayed into containers of hot burning liquid.

## 10 SPILL / LEAK PROCEDURES

Recover free product. Contain any spill to prevent entry to sewers or streams. Add sand, earth or suitable absorbent to spill area. Transfer to closed container.

## 11 WASTE DISPOSAL METHODS

Dispose of in accordance with local, state and federal laws. Use licensed waste oil disposal contractor, remove to regulated landfill, or incinerate in an approved facility.

## 12 PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Store in closed containers away from heat or open flames. Do not store with oxidizing agents. Not for internal use. Empty containers may contain product residue. Do not cut, heat or weld on or around empty containers. Avoid freezing temperatures.

## 13 TOXICOLOGICAL INFORMATION

ACUTE TOXICITY: Oral LD<sub>50</sub> greater than 20 g/kg (rats)  
SKIN IRRITATION: Non-irritant (rabbits)  
EYE IRRITATION: Non-irritant (rabbits)  
SKIN SENSITIZATION: Not a sensitizer (Magnusson-Kligman maximization procedure - guinea pig).  
MUTAGENICITY: Ames test - Negative (Non-mutagenic)

## 14 ECOLOGICAL INFORMATION

BIODEGRADATION: Biodegradable: Greater than 70% degradation within 28 days as tested in the Modified Sturm test.  
ECOTOXICITY: LC<sub>50</sub>: Greater than 100 mg/l (fish - 96 hours).  
EC<sub>50</sub>: Not toxic at concentrations well above the water solubility (Pseudomonas putida - 16 hours)

## 15 REGULATORY INFORMATION

This product does not contain a SARA Title 3 Section 313 (40 CFR 372) reportable chemical.  
This product is not considered a controlled product according to the criteria of the Canadian Controlled Products Regulations.  
CALIFORNIA PROPOSITION 65: No reportable components.  
INVENTORY STATUS: This product contains only chemicals that are currently listed on:  
USA - TSCA; Australia - AICS; EU - EINECS; Canada - DSL; Korea - ECL; Japan - ENCS; Philippines - PICCS; and China - SEPA.

## 16 TRANSPORTATION INFORMATION

D.O.T. CLASSIFICATION: Not regulated.

## 17 OTHER INFORMATION

This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of The Orelube Corporation. The Orelube Corporation assumes no legal responsibility for the use or reliance upon this data.

Please note that the chemical identity of some or all of the ingredients that may or may not be listed herein is confidential business information and is being withheld as permitted by 29 CFR 1910.1200 and various State Right-to-Know Laws.