

GC Electronics
1801 Morgan Street
Rockford, IL 61102
Phone: (815) 968-9661
(815) 968-9731
www.gcelectronics.com

Product Name: Pen Oiler
MSDS Number: 288
Revision Date: 8/8/06
Supersedes Date: 1/23/03

MATERIAL SAFETY DATA SHEET

Complies with OSHA Hazard Communication Standard 29 CFR 1910.1200

Product Type: Petroleum Hydrocarbons and Additives
Product Name: Pen Oiler
Part Number(s): 10-985

Emergency Contact: Chemtrec
Phone (24 hours): (800) 424-9300

Section 1 - Identification of Product

Product Type: Petroleum Hydrocarbons and additives
Product Name: Velocite Oil #10

NFPA
Health 0
Flammability 1
Reactivity 0

Section 2 - Hazardous Ingredients

When mists/aerosols can occur, the following are recommended.

| | | | |
|--------------------------------------|---------------|---------------|---------------|
| Chemical Names and Synonyms: | ACGIH | ACGIH | OSHA |
| Petroleum Hydrocarbons and Additives | TLV | STEL | PEL |
| | 5mg/m3 | 10mg/m3 | 5mg/m3 |
| | (as oil mist) | (as oil mist) | (as oil mist) |

Globally Reportable MSDS Ingredients: None

US OSHA HAZARD COMMUNICATION STANDARD: When used for its intended purposes, this product is not classified as hazardous in accordance with OSHA 29 CFR 1910.1200.

US SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT (SARA) TITLE III: This product contains no "Extremely Hazardous Substances".

SARA (311/312) REPORTABLE HAZARD CATEGORIES: None

This product contains no chemical subject to the supplier notification requirements of SARA (313) toxic release program.

EU Labeling: Product is not dangerous as defined by the European Union Dangerous Substances/Preparations Directives. EU labeling not required.

Governmental Inventory Status: All components comply with TSCA, EINECS/ELTNCS, AICS, DSL, and KECI.

Section 3 - Physical Data

Typical physical properties are given below. Product Data Sheet available on Web.

| | |
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| Boiling Point: | >316 (600) |
| Evaporation Rate: | NE |
| Vapor Density: | >2.0 |
| Vapor Pressure: | mmHg 20 C: <0.1 |
| Solubility in Water: | Negligible |
| Melting Point: | N/A |

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| | |
|-----------------------------|-------------------------------|
| Appearance and odor: | Light Amber liquid, mild odor |
| Flash Point: | >174 (345) (ASTM D-92) |
| Flammability: | NE |
| Auto Flammability: | N/A |
| Explosive Properties: | N/A |
| Oxidizing Properties: | N/A |
| Evaporation Rate: | NE |
| Relative Density: | 15/4 C: 0.864 |
| Partition Coefficient: | >3.5 |
| Viscosity at 40 C, cSt: | 21.0 |
| Viscosity at 100 C, cSt: | 4.0 |
| Pour Point C (F): | <-21 (-5) |
| Freezing Point: | NE |
| DMSO Extract, IP-346 (WT%): | <3, for mineral oil only |
| Volatile Organic Compound: | NE |

N/A=Not applicable NE- Not Established D=Decomposes

Section 4 - Fire & Explosion Hazard Data

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| Flash Point: | >174 (345) (ASTMD-92) |
| Flammable Limits (approx. % vol. in air): | LEL: 0.9% UEL: 7.0% |
| Extinguishing Media: | Carbon dioxide, foam, dry chemical and water fog. |
| Special Fire Fighting Procedures: | Water or foam may cause frothing. Use water to keep fire exposed containers cool. Water spray may be used to flush spills away from exposure. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply. |
| Special Protective Equipment: | For fires in enclosed areas, fire fighters must use self-contained breathing apparatus. |
| Unusual Fire and Explosion Hazards: | Note: Pressurized mists may form a flammable mixture. |
| Combustion Products: | Fumes, smoke, carbon monoxide, sulfur oxides, aldehydes and other decomposition products, in the case of incomplete combustion. |

Section 5 - Health Hazard Data

Under normal conditions of use, this product is not considered hazardous according to regulatory guidelines. (See section 10).

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| Emergency Overview: | Light amber liquid. Note: Pressurized mists may form a flammable mixture. |
| Potential Health Effects: | Under normal conditions of intended use, this product does not pose a risk to health. Excessive exposure may result in eye, skin or respiratory irritation. For further health effects/Toxicological data, see Section 12. |

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| Emergency First Aid Procedures: | |
| Eye Contact: | Flush thoroughly with water. If irritation occurs, call a physician. |
| Skin Contact: | Wash contact areas with soap and water. Remove and clean oil soaked clothing daily and wash affected area. |
| | Injection Injury Warning: If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury. |

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| Inhalation: | Not expected to be a problem. However, if respiratory irritation, dizziness, nausea, or unconsciousness occurs due to excessive vapor or mist exposure, seek immediate medical assistance. If breathing has stopped, assist ventilation with a mechanical device or mouth-to-mouth resuscitation. |
| Ingestion: | Not expected to be a problem. Seek medical attention if discomfort occurs. Do not induce vomiting. |

Section 6 - Reactivity Data

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| Stability (Thermal, Light, etc.): | Stable |
| Conditions to Avoid: | Extreme heat and high energy sources of ignition. |
| Incompatibility (Materials to avoid): | Strong oxidizers. |
| Hazardous Decomposition Products: | Product does not decompose at ambient temperatures. |
| Hazardous Polymerization: | Will not occur. |

Section 7 - Spill or Leak Procedures

Notification Procedures: Report spills/releases as required to appropriate authorities. U.S. Coast Guard and EPA regulations require immediate reporting of spills/releases that could reach any waterway including intermittent dry creeks. Report spill/release to Coast Guard National Response Center toll free number (800) 424-8802. In case of accident or road spill notify CHEMTREC (800) 424-9300

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| Handling: | High pressure injection under the skin may occur due to the rupture of pressurized lines. Always seek medical attention. No special precautions are necessary beyond normal good hygiene practices. See Section 8 for additional person protection advice when handling this product. |
| Storage: | Keep containers closed when not in use. Do not store in open or unlabelled containers. Store away from strong oxidizing agents and combustible materials. Do not store near heat, sparks, flame or strong oxidants. |
| Special Precautions: Procedures if Material is Released or Spilled: | Prevent small spills and leakages to avoid slip hazard. Land Spill: Shut off source taking normal safety precautions. Take measures to minimize the effects on ground water. Recover by pumping or contain spilled material with sand or other suitable absorbent and remove mechanically into containers. If necessary, dispose of absorbed residues as directed in Section 13. Water Spill: Confine the spill immediately with booms. Warn other ships in the vicinity. Notify port and other relevant authorities. Remove from the surface by skimming or with suitable absorbents. If permitted by regulatory authorities the use of suitable dispersants should be considered where recommended on local oil spill procedures. |
| Environmental Precautions: | Prevent material from entering sewers, water sources or low lying areas; advise the relevant authorities if it has, or if it contaminates soil/vegetation. |
| Personal Precautions: | See Section 8 |

Section 8 - Special Protection Information

Occupational Exposure Limits:
When mists/aerosols can occur, the following are recommended: 5 mg/m³ (as oil mist)-ACGIH (TLV), 10 mg/m³ (as oil mist)-ACGIH (STEL), 5 mg/m³ (as oil mist)-OSHA (PEL).

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| Ventilation: | If mists are generated, use adequate ventilation, local exhaust or enclosures to control below exposure limits. |
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| Respiratory Protection: | If mists are generated, and/or when ventilation is not adequate, wear approved respirator. |
| Eye Protection: | If eye contact is likely, safety glasses with side shields or chemical type goggles should be worn. |
| Skin Protection: | Not normally required. When splashing or liquid contact can occur frequently, wear oil resistant gloves and/or other protective clothing. Good personal hygiene practices should be followed. |

Section 9 – Special Precautions

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| Special Precautions: | Prevent small spills and leakages to avoid slip hazard. |
| Empty Container Warning: | Empty containers retain residue (liquid and/or vapor) and can be dangerous. Do not pressurize, cut , weld, braze, solder, drill, grind or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition; they may explode and cause injury or death. Do not attempt to refill or clean container since residue is difficult to remove. Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations. |
| Waste Disposal: | Product is suitable for burning in an enclosed, controlled burner for fuel value. Such burning may be limited pursuant to the Resource Conservation and Recovery Act. In addition, the product is suitable for processing by an approved recycling facility or can be disposed of at an appropriate government waste disposal facility. Use of these methods is subject to user compliance with applicable laws and regulations and consideration of product characteristics at time of disposal. |
| RCRA Information: | The unused product, in our opinion, is not specifically listed by the EPA as a hazardous waste (40 CFR part 261D), nor is it formulated to contain materials which are listed hazardous wastes. It does not exhibit the hazardous characteristics of ignitability, corrosivity, or reactivity. The unused product is not formulated with substances covered by the Toxicity Characteristic Leaching Procedure (TCLP). However, used product may be regulated. |

Section 10 - Regulatory Information

US OSHA HAZARD COMMUNICATION STANDARD: When used for its intended purposes, this product is not classified as hazardous in accordance with OSHA 29 CFR 1910.1200.

EU Labeling: Product is not dangerous as defined by the European Union Dangerous Substance/Preparations Directive. EU labeling not required.

Governmental Inventory Status: All components comply with TSCA, EINECS/ELINCS, AICS, DSL, and KECI.

US SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT (SARA) TITLE III: This product contains no “Extremely Hazardous Substances”.

SARA (311/312) REPORTABLE HAZARD CATEGORIES: None

This product contains no chemical subject to the supplier notification requirements of SARA (313) toxic release program.

The following product ingredients are cited on the lists below:

| Chemical Name | CAS# | List Citations |
|---------------------------------|-------|----------------|
| ----- | ----- | ----- |
| ***No Reportable Ingredients*** | | |

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---Regulatory Lists Searched---

| | | | | |
|-------------|-------------|-------------|-----------------|-----------|
| 1=ACGIH AII | 6=IARC 1 | 11=TSCA 4 | 16=CA P65 CARC | 21=LA RTK |
| 2=ACGIH A1 | 7=IARC 2A | 12=TSCA 5a2 | 17=CA P65 REPRO | 22=MI 293 |
| 3=ACGIH A2 | 8=IARC 2B | 13=TSCA 5e | 18=CA RTK | 23=MN RTK |
| 4=NTP CARC | 9=OSHA CARC | 14=TSCA 6 | 19=FL RTK | 24=NJ RTK |
| 5=NTP SUS | 10=OSHA Z | 15=TSCA 12b | 20=IL RTK | 25=PA RTK |
| | | | | 26=RI RTK |

Code Key: CARC=Carcinogen SUS=Suspected Carcinogen REPRO=Reproductive
USA DOT: Not Regulated
RID/ADR: Not Regulated
IMO: Not Regulated
IATA: Not Regulated
Static Accumulator (50 picosimens or less): Yes

Section 11 - Other Information

Use: Hydraulic oil
Note: Products are not formulated to contain PCB's
Health studies have shown that many hydrocarbons pose potential human health risks which may vary from person to person. Information provided on this MSDS reflects intended use. This product should not be used for other applications. In any case, the following advice should be considered.
Industrial Label:
Under normal conditions of intended use, this product does not pose a risk to health. Excessive exposure may result in eye, skin or respiratory irritation. Always observe good hygiene measures.
First Aid:
Skin: Wash with soap and water
Eyes: Flush with water.
Inhalation: If overcome by fumes or vapor, remove to fresh air.
Ingestion: DO NOT INDUCE VOMITING
If symptoms persist, seek medical assistance. Read and understand MSDS before using this product.

Section 12 Toxicological Data

---ACUTE TOXICOLOGY---:
Oral Toxicity (rats): Practically non-toxic (LD50 greater than 2000 mg/kg). Based on testing of similar products and/or the components.
Dermal Toxicity (rabbits): Practically non-toxic (LD50: greater than 2000 mg/kg). Based on testing of similar products and/or components.
Inhalation Toxicity (rats): Practically non-toxic (LC50: greater than 5mg/1). Based on testing of similar products and/or the components.
Eye Irritation (rabbits): Practically non-irritating. (Draize score: greater than 6 but 15 or less). Based on testing of similar products and/or the components.
Skin Irritation (rabbits): Practically non-irritating. (Primary Irritation Index: greater than 0.5 but less than 3). Based on testing of similar products and/or the components.
Other Acute Toxicity Data: Although an acute inhalation study was not performed with this product, a variety of mineral and synthetic oils, such as those in this product, have been tested. These samples had virtually no effect other than a nonspecific inflammatory response in the lung to the aerosolized mineral oil. The presence of additives in other tested formulations (in approximately the same amounts as in the present formulation) did not alter the observed effects.

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---SUBCHRONIC TOXICOLOGY (SUMMARY)---

No significant adverse effects were found in studies using repeated dermal applications of similar formulations to the skin of laboratory animals for 13 weeks at doses significantly higher than those expected during normal industrial exposure. The animals were evaluated extensively for effects of exposure (hematology, serum chemistry, urinalysis, organ weights, microscopic examination of tissues etc.)

---REPRODUCTIVE TOXICOLOGY (SUMMARY)---

No teratogenic effects would be expected from dermal exposure, based on laboratory developmental toxicity studies of major components in this formulation and/or materials of similar composition.

---CHRONIC TOXICOLOGY (SUMMARY)---

Repeated and/or prolonged exposure may cause irritation to the skin, eyes or respiratory tract. Overexposure to oil mist may result in oil droplet deposition and/or granuloma formation. For mineral base oils: Base oils in this product are severely solvent refined and/or severely hydrotreated. Chronic mouse skin painting studies of severely treated oil showed no evidence of carcinogenic effects. These results are confirmed on a continuing basis using various screening methods such as Modified Ames Test, ID346, and/or other analytical methods. For synthetic base oils: The base oils in this product have been tested in the Ames assay and other tests of mutagenicity with negative results. These base oils are not expected to be carcinogenic with chronic dermal exposures.

---SENSITIZATION (SUMMARY)---

Not expected to be sensitizing based on tests of this product, components, or similar products.

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| Section 13 Ecological Information |
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Environmental Fate and Effects:

In the absence of specific environmental data for this product, this assessment is based on information for representative products.

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| Ecotoxicity: | Available ecotoxicity data (LL50 >1000 mg/L) indicates that adverse effects to aquatic organisms are not expected from this product. |
| Mobility: | When released into the environment, absorption to sediment and soil will be the predominant behavior. |
| Persistence and Degradability: | This product is expected to be inherently biodegradable. |
| Bioaccumulative Potential: | Bioaccumulation is unlikely due to the very low water solubility of this product, therefore bioavailability to aquatic organisms is minimal |

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|-------------------|
| Disclaimer |
|-------------------|

GC Electronics believes that the information contained herein is accurate and reliable as of the date of this material safety data sheet, but no representation guarantee or warranty, express or implied, is made as to the accuracy, reliability, or completeness of the information. Persons receiving this information are encouraged to make their own determination as to the information's suitability and completeness for their particular application. NO INFORMATION CONTAINED HEREIN CONSTITUTES A PRODUCT WARRANTY OF ANY KIND, WHETHER EXPRESS OR IMPLIED; AND ALL IMPLIED WARRANTIES OF MERCHANT ABILITY AND OF FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY DISCLAIMED BY GC ELECTRONICS.

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