

1. Product and Company Identification

Material name	MILPRO® 634 METALWORKING OIL
Version #	01
Issue date	07-24-2013
Chemical name	MILPRO 634
CAS #	Mixture
Product use	METALWORKING OIL
Manufacturer	
Company name	CIMCOOL® Industrial Products LLC 3000 Disney Street Cincinnati, Ohio 45209
Telephone (General Information)	513-458-8199
Emergency telephone number	1-800-424-9300 (CHEMTREC)
Emergency telephone number (outside USA)	1-703-527-3887 (CHEMTREC)

2. Hazards Identification

Emergency overview	Product is combustible. Product is a primary eye irritant. Product may be a primary skin irritant. Pulmonary aspiration hazard if swallowed and/or vomiting occurs - can enter lungs and cause damage. Highway spills could result in slippery conditions. Harmful if swallowed. Harmful in contact with eyes. Avoid contact with the skin. Avoid prolonged contact with eyes, skin and clothing. Health injuries are not known or expected under normal use.
OSHA regulatory status	This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).
Potential health effects	
Eyes	Irritating to eyes. Harmful in contact with eyes. Avoid contact with eyes.
Skin	Product may be a primary skin irritant. Health injuries are not known or expected under normal use.
Inhalation	Health injuries are not known or expected under normal use. Extended exposure to mist may cause upper respiratory irritation.
Ingestion	Do not ingest. Harmful if swallowed. Not orally toxic. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Pulmonary aspiration hazard if swallowed and/or vomiting occurs - can enter lungs and cause damage.
Potential environmental effects	Not expected to be harmful to aquatic organisms.

3. Composition / Information on Ingredients

The manufacturer lists no ingredients as hazardous according to OSHA 29 CFR 1910.1200.

4. First Aid Measures

First aid procedures	
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.
Skin contact	Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. If skin irritation occurs: Get medical advice/attention.
Inhalation	If symptoms are experienced, remove source of contamination or move victim to fresh air. Under normal conditions of intended use, this material is not expected to be an inhalation hazard. Get medical attention if symptoms persist.
Ingestion	Drink 1 or 2 glasses of water. Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration.
General advice	If you feel unwell, seek medical advice (show the label where possible).

5. Fire Fighting Measures

Flammable properties	Not flammable by OSHA criteria. Not combustible by OSHA criteria.
Extinguishing media	
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Dry chemicals. Carbon dioxide (CO2). Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Protection of firefighters	
Protective equipment and precautions for firefighters	Wear suitable protective equipment. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk.
Hazardous combustion products	Smoke, fumes, hydrogen chloride, oxides of phosphorus and oxides of carbon

6. Accidental Release Measures

Personal precautions	Keep unnecessary personnel away. Wear appropriate personal protective equipment. For personal protection, see section 8 of the MSDS.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.
Methods for containment	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Prevent entry into waterways, sewer, basements or confined areas.
Methods for cleaning up	<p>The product is immiscible with water and will spread on the water surface.</p> <p>Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.</p> <p>Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.</p> <p>Never return spills in original containers for re-use. For waste disposal, see section 13 of the MSDS.</p>
Other information	Clean up in accordance with all applicable regulations.

7. Handling and Storage

Handling	Keep away from heat and sources of ignition. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Do not breathe vapor. Do not ingest. Avoid contact with skin and eyes. Avoid prolonged and repeated contact. Use only in well-ventilated areas. Use personal protective equipment as required. When using, do not eat, drink or smoke. Wash thoroughly after handling. Practice good housekeeping. Handle and open container with care. Do not empty into drains.
Storage	<p>Class IIIB Combustible Liquid.</p> <p>Do not handle or store near an open flame, heat or other sources of ignition. To maintain product quality, do not store in heat or direct sunlight. Keep containers closed when not in use. Room temperature - normal conditions. Do not allow material to freeze. Use care in handling/storage. Keep away from heat, sparks, and flame.</p>

8. Exposure Controls / Personal Protection

Engineering controls	Ensure compliance with applicable exposure limits. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.
Personal protective equipment	
Eye / face protection	Avoid contact with eyes. Wear safety glasses with side shields (or goggles).
Skin protection	Wear suitable protective clothing and eye/face protection.

Respiratory protection

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Use a particulate filter respirator for particulate concentrations exceeding the Occupational Exposure Limit.

General hygiene considerations

Do not get in eyes, on skin, on clothing. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical & Chemical Properties

Appearance	CLEAR
Physical state	Liquid.
Form	Liquid.
Color	Not available.
Odor	CHEMICAL
Odor threshold	Not available.
pH	Not Applicable
Vapor pressure	Not available.
Vapor density	Not available.
Boiling point	Not Applicable
Melting point/Freezing point	Not available.
Solubility (water)	Insoluble
Specific gravity	0.9
Relative density	Not available.
Flash point	365 °F (185 °C) Cleveland Open Cup
Flammability limits in air, upper, % by volume	Not available.
Flammability limits in air, lower, % by volume	Not available.
Auto-ignition temperature	Not available.
Other data	
Flash point class	Combustible IIIB
VOC ASTM D2369	4 %

10. Chemical Stability & Reactivity Information

Chemical stability	Material is stable under normal conditions.
Conditions to avoid	Heat, flames and sparks. Avoid temperatures exceeding the flash point. None under normal conditions.
Incompatible materials	Strong acids. Avoid contact with oxidizers or reducing agents.
Hazardous decomposition products	Smoke, fumes, hydrogen chloride, oxides of phosphorus and oxides of carbon
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use. Hazardous polymerization does not occur.

11. Toxicological Information

Carcinogenicity	Not classified.
Skin corrosion/irritation	May be irritating to the skin. Defatting, drying and cracking of skin.
Further information	This product has no known adverse effect on human health.

12. Ecological Information

Persistence and degradability	Not available.
Mobility in environmental media	The product is immiscible with water and will spread on the water surface.

13. Disposal Considerations

Waste codes	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied. Do not re-use empty containers.

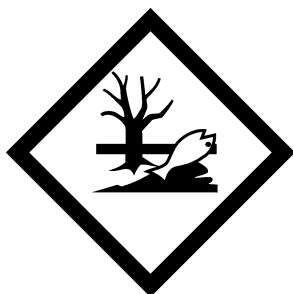
14. Transport Information

General	IMDG Regulated Marine Pollutant.
DOT	
Basic shipping requirements:	
UN number	UN3082
Proper shipping name	Environmentally Hazardous Substance, Liquid, N.O.S. (PARAFFIN WAXES AND HYDROCARBON WAXES, CHLORO), MARINE POLLUTANT
Hazard class	9
Packing group	III
Environmental hazards	
Marine pollutant	Yes
Special precautions	Read safety instructions, MSDS and emergency procedures before handling.
IATA	
UN number	UN3082
UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (PARAFFIN WAXES AND HYDROCARBON WAXES, CHLORO)
Transport hazard class(es)	9
Packing group	III
ERG code	9L
Special precautions for user	Read safety instructions, MSDS and emergency procedures before handling.
IMDG	
UN number	UN3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PARAFFIN WAXES AND HYDROCARBON WAXES, CHLORO), MARINE POLLUTANT
Transport hazard class(es)	9
Packing group	III
Environmental hazards	
Marine pollutant	Yes
EmS	F-A, S-F

DOT; IATA; IMDG



Marine pollutant



15. Regulatory Information

US federal regulations

This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number

Not listed.

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

Not regulated.

DEA Exempt Chemical Mixtures Code Number

Not regulated.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA (Superfund) reportable quantity

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
Immediate Hazard - Yes
Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

Section 302 extremely hazardous substance
No

SARA 311/312 Hazardous chemical
No

Inventory status

Country(s) or region	Inventory name	On inventory or exempt (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

State regulations

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

US. Massachusetts RTK - Substance List

Not regulated.

US. Pennsylvania RTK - Hazardous Substances

Not regulated.

US. Rhode Island RTK

Not regulated.

US state regulations

California South Coast Air Quality Management District (SCAQMD) Rule 1144 (VOC Emissions)
This product is subject to SCAQMD Rule 1144; it is compliant and may be sold and used in the SCAQMD. The VOC content of the product is 21 g/L, measured by ASTM Method E-1868-10. This product has a specified VOC limit of 75 g/L.

16. Other Information

Further information

HMIS® is a registered trade and service mark of the NPCA.

HMIS® ratings

Health: 1
Flammability: 1
Physical hazard: 0

NFPA ratings

Health: 1
Flammability: 1
Instability: 0

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. The information in the sheet was written based on the best knowledge and experience currently available.

This data sheet contains changes from the previous version in section(s):

This document has undergone significant changes and should be reviewed in its entirety.