



## Spray: Open Gear Aerosol Lubricating Oil

**Product Identification:**      **Spray: Open Gear - 12 x 16 oz**  
**Aerosol Lubricating Oil**

MSDS Print Date:

This product is a liquid that is insoluble in water. Direct eye contact may cause minor, short-term irritation. Short-term skin exposure is not expected to be irritating. Inhalation and ingestion are not anticipated routes of exposure during normal conditions of use.

HMIS Rating: Health: 2 Flammability: 4 Reactivity: 0 PPE: X

Components listed in this section may contribute to the potential hazards associated with exposure to the concentrate. The product may contain additional non-hazardous or trade secret components.

**Isobutene** (Percent: <10)

Cas #: Proprietary Exposure Limit: NIOSH REL: 800ppm NIOSH recommended TWA 10 hours

**Methylene Chloride** (Percent: <53)

Cas #: Proprietary	Exposure Limit:	ACGIH TLV:	50 ppm
		OSHA PEL:	25 ppm (Action Level: 12.5 ppm 8-hr TWA)
		OSHA STEL:	125 ppm

**Mineral Oil (Percent: <30)**

Cas #: Proprietary	Exposure Limit:	ACGIH TLV:	10 mg/m3 (as mist)
		OSHA PEL:	5 mg/m3 (as mist)
		OSHA STEL:	10 mg/m3 (as mist)

**Mineral Spirits** (Percent: <5)

Cas #: Proprietary	Exposure Limit:	ACGIH TLV:	100 ppm
		OSHA PEL:	500 ppm

**Propane** (Percent: <5)

Cas #: Proprietary	Exposure Limit:	ACGIH TLV:	2500 ppm
		OSHA PEL:	1000 ppm

**Carcinogenic Components:** This product contains one or more reported or suspected carcinogens as determined by the NTP, IARC, or OSHA.



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## **SECTION 3 – HAZARDOUS IDENTIFICATION**

### **POTENTIAL HEALTH EFFECTS and SYMPTOMS from SHORT / ACUTE EXPOSURE:**

#### **EYE EXPOSURE**

This product is not expected to cause eye irritation under normal conditions of use. Symptoms of slight eye irritation may result when direct contact occurs, or when exposed to high mist levels in poorly ventilated areas.

#### **SKIN EXPOSURE**

Short-term skin exposure may cause skin irritation. Prolonged or repeated direct exposure to the skin may result in symptoms of irritation and redness. In severe cases, prolonged or repeated contact may result in dermatitis accompanied by symptoms of irritation, itching, dryness, cracking and / or inflammation. The propellant in this product may cause frostbite if sprayed directly on the skin.

#### **INHALATION**

This product is not expected to cause respiratory tract irritation during normal conditions of use. Exposure to high mist levels in poorly ventilated areas may cause upper respiratory tract irritation and difficulty breathing. Severe exposure to high mist or vapor levels may cause CNS effects with symptoms of headache, drowsiness, stupor, dizziness and unconsciousness. In extreme cases, severe overexposure may be fatal.

#### **INGESTION**

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

### **POTENTIAL CHRONIC HEALTH EFFECTS**

Chronic exposure to Methylene chloride may potentially cause headache, mental confusion, depression, liver and kidney effects, loss of balance and visual disturbances. It can cause dermatitis upon prolonged skin exposure.

### **MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE**

Persons with pre-existing skin disorders, eye problems, alcoholism, and impaired liver, and kidney, respiratory or cardiovascular function may be more susceptible to the effects of this substance.

### **CARCINOGENICITY**

Based on animal studies, Methylene chloride is considered a possible human carcinogen by the National Toxicology Program (NTP) and the International Agency for Research on Cancer (IARC).

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## **SECTION 4 – FIRST AID MEASURES**

#### **EYE CONTACT**

Upon direct eye contact, hold eyelids open flush with a steady, gentle stream of water for at least 15 minutes. If irritation is due to exposure to mist or vapors, remove the individual to fresh air. If irritation persists, flush the eyes with clean water until the irritation subsides. If symptoms persist, contact physician.

#### **SKIN CONTACT**

Remove product from the skin by washing with mild soap and water. Contaminated clothing should be removed to prevent prolonged exposure. If symptoms of exposure persist, contact physician.

**INHALATION**

Inhalation is not an expected route of exposure. If respiratory irritation or distress occurs remove the employee to fresh air. Contact a physician or other medical professional if irritation or distress persists.

**INGESTION**

If small amounts are ingested, first aid measures are not likely to be necessary. If larger amounts are ingested or if symptoms of ingestion occur, dilute stomach contents with two glasses of water or milk. (NOTE: DO NOT give anything by mouth to an unconscious person). Do not induce vomiting without medical supervision. If vomiting occurs spontaneously keep airway clear. If symptoms of ingestion persist, seek medical attention.

**NOTE TO PHYSICIAN**

No further data known

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**SECTION 5 – FIRE FIGHTING MEASURES****FIRE AND EXPLOSION PROPERTIES**

Flash Point: 156.0 °(Negative) TCC  
Flammability Limits: LEL N/A  
UEL N/A

**EXTINGUISHING MEDIA**

In accordance with NFPA guidance, dry chemical, foam, or CO2 fire extinguishers are all acceptable. Note that while water fog extinguishers are also acceptable, do NOT apply a direct stream of water onto burning product because it may cause spreading and increase fire intensity.

**UNUSUAL FIRE & EXPLOSION HAZARDS:**

In aerosol form, this material is highly flammable and may be ignited by heat, sparks, flames, or other sources of ignition. The product itself is flammable and may also be ignited. Vapors are heavier than air and may travel a considerable distance where they can ignite, flashback, or explode. Aerosol container (pressurized) may burst if heated over 120°F.

**FIRE-FIGHTING PROCEDURES AND EQUIPMENT:**

Emergency responders in the danger areas should wear bunker gear and self-contained breathing apparatus for fires beyond the incipient stage. See section 8 of the MSDS for other PPE to be worn as conditions warrant. Use water spray to keep containers cool and vapors down. Do not allow runoff to enter sewers or public water courses.

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**SECTION 6 – ACCIDENTAL RELEASE MEASURES****CLEAN-UP MEASURES:**

**Important:** As with any spill or leak, ensure before responding that you are familiar with the potential hazards and recommendations of the MSDS. Appropriate personal protective equipment must be worn. See Section 8 of this MSDS for PPE recommendations.

**Important:** Vapors are heavier than air and may travel long distances along the ground and reach ignition sources. Eliminate fire hazard by extinguishing ignition sources (flames, pilot lights, spark sources) prior to responding and by using only explosion-proof spill response equipment. Vapors may collect in low areas, sewers, and confined spaces. Areas where vapors may collect should be ventilated properly prior to response.



If possible, safely contain the spill with dikes or other spill response equipment appropriate for petroleum or organic material releases. Take measures to prevent spreading of product. Note that while product will ignite, it will not readily burn. However, as a precaution eliminate ignition sources. Prevent from entering sewers or waterways. Large volumes may be transferred to an appropriate container for proper disposal. Small volumes or residues may be soaked up with absorbents. Spill response materials should be collected for proper disposal.

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## **SECTION 7 – HANDLING AND STORAGE**

### **HANDLING**

Keep away from heat, sparks and open flame. Contents are under pressure.

As with any industrial chemical, handle the product in a manner that minimizes exposure to practicable levels. Prior to handling, consult Section 8 of this MSDS to evaluate personal protective equipment needs. Follow all other standard industrial hygiene practices.

Empty containers may contain product residue. All safety precautions taken when handling this product should also be taken when handling empty containers. Keep containers closed when not in use. Product residue in empty containers is combustible but will not readily burn. NOTE however, that excessive heating or cutting of empty containers may create an ignition source sufficient to start a fire and in extreme cases, cause an explosion.

### **STORAGE**

Store in a cool (under 120°F), well-ventilated and dry location away from heat, sparks, open flames and direct sunlight. Keep out of reach of children. Protect product quality by storing indoors and away from extreme temperatures. Close all containers when not in use.

### **SPECIAL COMMENTS**

Follow label directions carefully. Use with adequate ventilation. Do not deliberately concentrate and inhale vapors. Do not puncture or incinerate container.

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## **SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION**

### **PERSONAL PROTECTIVE EQUIPMENT**

Selection of personal protective equipment should be based upon the anticipated exposure and made in accordance with OSHA's Personal Protective Equipment Standard found in 29 CFR 1910 Subpart I. The following information may be used to assist in PPE selection.

#### **EYE PROTECTION**

Wear eye protection appropriate to prevent eye exposure. Where splashing is not likely, chemical safety glasses with side shields are recommended. Where splashing may occur, chemical goggles or full-face shield is recommended.

#### **SKIN PROTECTION**

Gloves are not normally needed during normal conditions of use. If health effects are experienced, oil or chemical resistant gloves such as butyl or nitrile are recommended

#### **RESPIRATORY PROTECTION**

A respirator may be worn to reduce exposure to vapors, dust, or mist. Select a NIOSH / MSHA approved respirator appropriate for the type and physical character of the airborne material. A self-contained breathing apparatus is recommended in all situations where airborne contaminant concentration has not



been confirmed to be below safe levels. Respirator use should comply with the OSHA Respirator Protection Standard found in 29 CFR 1910.134.

**ENGINEERING CONTROLS**

Normal general ventilation is expected to be adequate. It is recommended that ventilation be designed in all instances to maintain airborne concentrations at lower practicable levels. Ventilation should at a minimum, prevent airborne concentrations from exceeding any exposure limits listed in Section 2 of this MSDS.

The user may wish to refer to 29 CFR 1910.1000 (d) (2) and ACGIH "Threshold Limit Values for Chemical Substances and Physical Agents Biological Exposure Indices" (Appendix C) for the determination of exposure limits of mixtures. An industrial hygienist or similar professional may be consulted to confirm that the calculated exposure limits apply.

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**SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES**

Physical Appearance: Black Liquid  
Odor: Chlorinated Solvent  
Physical State: Liquid  
Specific Gravity: 1.040  
Water Solubility: Insoluble

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**SECTION 10 – STABILITY AND REACTIVITY****INCOMPATIBILITIES**

This product is incompatible with strong oxidizing agents.

Methylene chloride is incompatible with water, heat, nitric acid, chemically active metals such as aluminum and magnesium powders, sodium, potassium, and lithium; as well as strong oxidizers and strong caustics. Methylene chloride may be incompatible with some rubbers and plastics.

**DECOMPOSITION PRODUCTS MAY INCLUDE**

Thermal decomposition products are dependent on combustion conditions. A complex mixture of airborne solid, liquid, particulates and gasses may evolve when the material burns. Combustion byproducts may include:

- Acid gases as hydrogen chloride and phosgene
- Oxides of carbon
- Incompletely burned hydrocarbons as fumes and smoke.

**CONDITIONS TO AVOID**

Avoid contact with incompatible materials and exposure to extreme temperatures including heat, sparks and open flame.

**POLYMERIZATION**

This product is not expected to polymerize.

**STABILITY**

This product is stable under normal conditions.



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**SECTION 11 – TOXICOLOGICAL INFORMATION****EYE EFFECTS**

No further toxicological data known.

**SKIN EFFECTS**

No further toxicological data known.

**ORAL EFFECTS**

No further toxicological data known.

**INHALATION EFFECTS**

No further toxicological data known.

**CARCINOGENICITY OF MATERIALS**

This product contains Methylene chloride (dichloromethylene). One health reference indicates a potential symptom of exposure to Methylene chloride is an increased risk of spontaneous abortions. Based on animal studies, the (IARC) classified Methylene chloride as a possible human carcinogen (Group 2B). While the IARC classification is based on “sufficient evidence” in animals, it is important to note that IARC found “inadequate evidence” to link Methylene chloride to cancer in humans. Additionally, although the National Toxicology Program (NTP) classified Methylene chloride as “reasonably expected to be a human carcinogen”, NTP also reported “there are no data available to evaluate the carcinogen level of Methylene chloride in humans”.

**OTHER**

No further toxicological data known.

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**SECTION 12 – ECOLOGICAL INFORMATION****ECOTOXICOLOGICAL INFORMATION**

This product has not been evaluated for ecotoxicity. As with any industrial chemical, exposure to the environment should be prevented and minimized wherever possible.

**ENVIRONMENTAL FATE**

The degree of biodegradability and persistence of this product has not been determined.

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**SECTION 13 – DISPOSAL CONSIDERATION****WASTE DISPOSAL**

Do not puncture or incinerate containers, even when empty. Dispose in accordance with local regulations. Ensure that collection, transport, treatment, and disposal of waste product, containers and rinsate comply with all applicable laws and regulations. Note that use, mixture, processing, or contamination of the product may cause the material to be classified as a hazardous waste. It is the responsibility of the product user or owner to determine at the time of disposal, whether the product is regulated as a hazardous waste.



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**SECTION 14 – TRANSPORT INFORMATION****DOT HAZARDOUS MATERIAL INFORMATION:**

Consumer Commodity ORM-D; Must be packaged in an ORM-D stamped box. Not otherwise DOT regulated.

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**SECTION 15 – REGULATORY INFORMATION****FEDERAL REGULATIONS**

SARA 313: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and reauthorization Act of 1986 and 40 CFR Part 372:

**Methylene chloride** CAS # N/A PCT by WT: 53.0000

**CLEAN WATER ACT / OIL POLLUTION ACT**

This product contains mineral oil and is subject to regulations by Section 311 of the Clean Water Act and the Oil Pollution Act. Releases of the product into or leading to surface waters must be reported to the National Response Center at 1-800-424-8802.

**CERCLA REPORTABLE QUANTITY:**

Any components listed below have been assigned a reportable quantity (RQ) by the Federal EPA. Releases of the product into the environment that exceed the RQ for a particular component must be reported to the National Response Center at 1-800-424-8802.

COMPONENT	RQ
<b>Methylene Chloride</b>	<b>1000 pounds</b>

**TOXIC SUBSTANCES CONTROL ACT**

The components of this product are listed on the TSCA Inventory.

**OZONE DEPLETING SUBSTANCES**

The product contains no ozone depleting substances as defined by the Clean Air Act.

**HAZARDOUS AIR POLLUTANTS**

The Federal EPA defines any components listed below as hazardous air pollutants.

COMPONENT	RQ
<b>Methylene Chloride</b>	

**STATE REGULATIONS**

This product contains mineral oil, and as used, may be regulated by state used oil regulations. Check with the appropriate state agency to determine whether such a regulation exists.

No further data known.

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**SECTION 16 – OTHER INFORMATION**

**LAST REVISION DATE:** March 25, 2010

**NOTICE OF DISCLAIMER**

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