MATERIAL SAFETY DATA SHEET

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

CUB CADET MULTIPURPOSE GREASE
CAS Number: Mixture
SYNONYMS: None

Company Information
Viscosity Oil Company
600-H Joliet Road
Willowbrook, IL 60527

Transportation Emergency Response
CHEMTREC (800) 424-9300

Product Information
MSDS Requests: (630) 850-4000 Website: www.viscosityoil.com
Product Information: (630) 850-4000 Website: www.viscosityoil.com

SECTION 2 COMPOSITION / INFORMATION ON INGREDIENTS

Components	Hazardous (Y/N)	CAS Number	Amount
Base Lubricating Oils	No	Mixture	85-95 %
Lithium Soap	No	Mixture	5-10 %
Antiwear Additives	No	Trade Secret	1-5 %

SECTION 3 HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW
- MAY CAUSE EYE DISCOMFORT UPON DIRECT CONTACT
- MAY CAUSE MINOR SKIN IRRITATION UPON PROLONGED CONTACT

IMMEDIATE HEALTH EFFECTS
Eye contact: This product is minimally irritating to the eyes upon direct contact, based on testing of similar products and/or components.
Skin contact: Avoid skin contact. This product is minimally irritating to the skin upon direct contact. Prolonged or repeated contact may result in contact dermatitis which is characterized by dryness, chapping and reddening. This condition may make the skin more susceptible to other irritants, sensitizers and disease. Prolonged or repeated contact may result in oil acne which is characterized by blackheads with possible secondary infection. Injection of pressurized hydrocarbons under the skin can cause inflammation and swelling, as well as severe, permanent tissue damage. The initial wound at the injection site may not appear to be serious at first, but, if left untreated, could result in disfiguration or amputation of the affected part.

Inhalation: This product has a low vapor pressure and is not expected to present an inhalation hazard at ambient conditions. Caution should be taken to prevent the formation of an aerosol or misting of this product. The permissible exposure limit (PEL) and threshold limit value (TLV) for this product as oil mist is 5 mg/m^3. Exposures below 5 mg/m^3 appear to be without significant health risk. The short-term exposure limit for this product as an oil mist is 10 mg/m^3.
Ingestion: Do not ingest. This product is relatively non-toxic by ingestion. This product has laxative properties and may result in abdominal cramps and diarrhea.

DELAYED OR OTHER HEALTH EFFECTS
Cancer: None of the components in this material are listed as carcinogens by IARC, NTP, ACGIH or OSHA.
Other: Greases consist of solid or semisolid dispersions of metallic soaps and other thickeners in a mineral oil base. Long term exposure to small doses of mineral oil by inhalation, aspiration or ingestion leading to aspiration can lead to lipid pneumonia or lipid granuloma of the lung. These are low-grade, chronic, localized tissue reactions. Shortness of breath and cough are the most common symptoms.

See Section 11 for additional information. Risk depends on duration and level of exposure.

SECTION 4 FIRST AID MEASURES

Eye contact: Immediately flush eyes with large amounts of water and continue flushing until irritation subsides. If material is hot, treat for thermal burns and take victim to hospital immediately.
Skin contact: Remove contaminated clothing. Wash contaminated area thoroughly with soap and water. If redness or irritation occurs, seek medical attention. If material is hot, submerge injured area in cold water. If victim is severely burned, remove to a hospital immediately. If injected under the skin, contact a physician immediately. If material is injected under the skin, seek medical attention immediately.
Note to physicians: In an accident involving high-pressure equipment, this type of product may be injected under the skin. Immediate treatment at a surgical emergency center is recommended, no matter how small and insignificant the wound may appear.
Inhalation: This material has a low vapor pressure and is not expected to present an inhalation exposure at ambient conditions. If vapor or mist is generated when the material is heated or handles, remove victim from exposure.
Ingestion: Do not induce vomiting. Seek medical attention.

SECTION 5 FIRE FIGHTING MEASURES

FIRE CLASSIFICATION:
OSHA Classification (29 CFR 1910.1200): Not classified by OSHA as flammable or combustible.

NFPA RATINGS: Health: 1 Flammability: 1 Reactivity: 0
(0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme, PPE:-Personal Protective Equipment Index recommendation)

FLAMMABLE PROPERTIES:
Flash point: No Data
Autoignition temperature: No Data
Flammable (Explosive) limits (% by volume in air) Lower: No Data Upper: No Data

Extinguishing Media: Use dry chemical, foam, or carbon dioxide.

Special Fire Fighting Procedures: Water may be ineffective but can be used to cool containers exposed to heat or flame. Caution should be exercised when using water or foam as frothing may occur, especially if sprayed into containers of hot, burning liquid.
Unusual Fire and Explosive Conditions: Dense smoke may be generated while burning. Carbon monoxide, carbon dioxide, and other oxides may be generated as products of combustion.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Protective Measures: Eliminate all sources of ignition in vicinity of spilled material. Consult Hazards Identification Information in Section 3, Personal Protection information in Section 8, Fire Fighting Measures in Section 5, and Reactivity data in Section 9.
Spill Management: Contain spill immediately. Do not allow spill to enter sewers or watercourses. Remove all sources of ignition. Absorb with appropriate inert material such as sand, clay, etc. Large spills may be picked up using vacuum pumps, shovels, buckets, or other means and placed in drums or other suitable containers.
Reporting: Report spills to local authorities and/or the U.S. Coast Guard's National Response Center at (800) 424-8802 as appropriate or required.

SECTION 7 HANDLING AND STORAGE

Do not transfer to unmarked containers. Store in closed containers away from heat, sparks, open flame or oxidizing materials. Fire extinguishers should be kept readily available. See NFPA 30 and OSHA 1910.106--flammable and combustible liquids.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

HMIS RATINGS: Health: 1 Flammability: 1 Reactivity: 0 PPE: See note 1.
(0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme, PPE:-Personal Protective Equipment Index recommendation)
PERSONAL PROTECTIVE EQUIPMENT
Eye protection: Eye protection is not required under normal conditions of use. If material is handled such that it could be splashed into eyes, wear plastic face shield or splash-proof safety goggles.
Skin protection: No skin protection is required for single, short duration exposures. For prolonged or repeated exposures, use impervious clothing (boots, gloves, aprons, etc.) over parts of the body subject to exposure. If handling hot material, use insulated protective clothing (boots, gloves, aprons, etc.). Launder soiled clothes. Properly dispose of contaminated leather articles including shoes, which cannot be decontaminated.
Respiratory Protection: Respiratory protection is not required under conditions of normal use. If vapor or mist is generated when the material is heated or handled, use an organic vapor respirator with a dust and mist filter. All respirators must be NIOSH certified. Do not use compressed oxygen in hydrocarbon atmospheres.
Ventilation: If vapor or mist is generated when the material is heated or handled, adequate ventilation in accordance with good engineering practice must be provided to maintain concentrations below the specified exposure or flammable limits.

Other: Consumption of food and beverage should be avoided in work areas where hydrocarbons are present. Always wash hands and face with soap and water before eating, drinking, or smoking.

Occupational Exposure Limits (OSHA)

Component	TWA	STEL
Base Lubricating Oils	5 mg/m^3 as mist	No Data
Lithium Soap	No Data	No Data
Antiwear Additive	No Data	No Data

Note 1: Employers must determine appropriate PPE for the actual conditions under which this material is used in their workplace.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

The data below are typical values and do not constitute a specification.

Boiling point:	> 600 °F
Melting point:	> 350°F
Percent volatile:	No Data
Vapor density (air=1):	>1
Appearance:	Brown semi-solid
Evaporation rate (ethyl ether=1):	No Data
Odor:	Petroleum Odor
Specific gravity:	0.90
Vapor pressure:	< 0.01 mm HG @ 68 °F
Molecular weight:	No Data
Solubility:	Insoluble in water, soluble in hydrocarbon

SECTION 10 STABILITY AND REACTIVITY

Stability (thermal, light, etc.):	Stable
Conditions to avoid:	None
Hazardous polymerization:	Will Not Occur
Incompatibility materials to avoid:	May react with strong oxidizing agents
Hazardous decomposition products:	None

SECTION 11 TOXICOLOGICAL INFORMATION

IMMEDIATE HEALTH EFFECTS

Eye Irritation: The eye irritation hazard is based on evaluation of data for similar materials or product components.

Skin Irritation: The skin irritation hazard is based on evaluation of data for similar materials or product components.

Skin Sensitization: The skin sensitization hazard is based on evaluation of data for similar materials or product components.

Oral Toxicity: The oral toxicity hazard is based on evaluation of data for similar materials or product components.

Inhalation Toxicity: The inhalation toxicity hazard is based on evaluation of data for similar materials or product components.

SECTION 12 ECOLOGICAL INFORMATION

Ecotoxicity: This material is not expected to be toxic beyond to aquatic organisms. The ecotoxicity hazard is based on evaluation of data for similar materials or product components.

Ready Biodegradability: This material is not expected to be readily biodegradable. The biodegradability of this product is based on evaluation of data for similar materials or product components.

SECTION 13 DISPOSAL CONSIDERATIONS

All disposals must comply with federal, state, and local regulations. The material, if spilled or discarded, may be a regulated waste. Refer to state and local regulations. Caution! If regulated solvents are used to clean up spilled material, the resulting waste mixture may be regulated. Department of Transportation (DOT) regulations may apply for transporting this material when spilled. Waste material may be landfilled or incinerated at an approved facility. Materials should be recycled if possible.

SECTION 14 TRANSPORTATION INFORMATION

The description shown may not apply to all shipping situations. Consult 40CFR, or appropriate Dangerous Goods Regulations, for additional requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

Dot Shipping Description: Not regulated as a hazardous material for transportation.

IMO/IMDG Shipping Description: Not regulated as dangerous goods for transportation under the IMDG code.

SECTION 15 REGULATORY INFORMATION

EPCRA 311/312 CATEGORIES:

Immediate (acute) health effects:	Yes
Delayed (chronic) health effects	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactivity hazard	No

LISTED CHEMICALS:
This product contains the following SARA Title III, Section 313 chemicals:

Zinc Compounds CAS# None WT. % < 1

CHEMICAL INVENTORIES:
All components comply with the chemical inventory requirements of TSCA (United States).

WHMIS CLASSIFICATION:
This product is not a controlled substance under the Canadian WHMIS regulations.

SECTION 16 OTHER INFORMATION

This mixture may be formulated in part with components purchased from other companies. In many instances, especially when proprietary or trade secret materials are used, Viscosity Oil Company must rely upon the hazard evaluation of such components submitted to Viscosity Oil by that product's manufacturer or importer.

DISCLAIMER OF WARRANTY:

The information contained herein is based upon data available to us, and reflects our best professional judgment. However, no warranty of merchantability, fitness for any use, or any other warranty is expressed or implied regarding the accuracy of such data, the results to be obtained from the use thereof, or that any such use does not infringe any patent. Since the information contained herein may be applied under conditions of use beyond our control and with which we may be unfamiliar, we do not assume any responsibility for the results of such application. This information is furnished upon the condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.