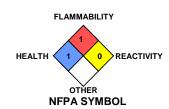
Health 1 **Flammability** 1 0 Reactivity PPI В

MATERIAL SAFETY DATA SHEET

ARCTIC™



HMIS SYMBOL

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Product Name ARCTIC™ Chemical Family: Mixture

Use: Petroleum based lubricant Manufacturer/Supplier: Jet-Lube of Canada Ltd. 3820 - 97 Street NW

Edmonton, Alberta Canada T6E 5S8

Phone: (780) 463-7441 Fax: (780) 463-7454

CCOHS: 1-800-668-4284

Emergency:

Hazardous

CANUTEC PH: (613) 996-6666 Cell: *666 TTY/TDD: 1-888-675-6863

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

Lubricating Base Oil Components Calcium Hydroxide CAS NO. 64742-52-5 1305-62-0 30 - 60 WT % 1 - 5 OSHA PEL 5 mg/m³ Not Available **ACGIH TLV** 5 mg/m³ Not Available LD50 7300 mg/kg (oral, mouse) 5000 mg/kg (oral, rat) LC50 Not Available 2180 mg/m3 (rat)

SECTION 3 - HAZARDS IDENTIFICATION

Route of Entry: Eyes, Inhalation, Ingestion, Skin May cause irritation to eyes Eves:

Viscous nature may block breathing passages if inhaled. Inhalation

May cause diarrhea if ingested. Ingestion:

May cause irritation after prolonged skin exposure, especially for Skin:

persons with hyper sensitivity.

SECTION 4 - FIRST AID MEASURES

Flush with water until all residual material is gone. If irritation Eyes:

persists, seek medical help.

Ingestion: Do not induce vomiting. Wash out mouth. Contact a physician

immediately.

Skin: Remove by wiping or with a waterless hand cleaner, followed by

washing with soap and water.

Inhalation: Clear air passage. If breathing difficulty continues seek medical

SECTION 5 - FIRE FIGHTING MEASURES

Flammability: Nil at ambient temp

Extinguishing Media: Use dry chemicals, foam, halon, CO2

Flash Point (OC): >160°C (320°F)

Flammable Limits: Lower - 0.9% **Explosive Properties:** LEL - 0.9% UEL - 7%

Auto-ignition Temp: >260°C (500°F) Explosion Data: Sensitivity to Impact - Not Available Sensitivity to Static Discharge - Not Available

Hazardous Combustion Products: Oxides of carbon, smoke and irritating

vapors as products of incomplete combustion.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Spillage: Scoop up excess, then wipes down the affected area and pick up residue with diatomaceous earth to avoid a walking hazard.

Environmental Precautions: Do not allow product to enter into drains

SECTION 7 - HANDLING AND STORAGE

Handling Procedures No special handling precautions necessary. Do not

pressurize, cut, heat or weld empty containers.

Storage Requirements Store in a cool, well ventilated place

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits: ACGIH TLV OSHA PEL Calcium Hydroxide 5 mg/m³ 5 mg/m³ Not Available Lubricating Base Oil Not Available

If user's operation generates vapors or mists, use **Engineering Controls:** ventilation to keep exposure to airborne contaminants

below the exposure limit. Make up air should always be supplied to balance air removed by exhaust ventilation. Ensure eyewash station and safety shower are close to

work station.

Personal Protective Equipment (PPE's): Respiratory Protection: None required

Hand Protection: Protective gloves for hypersensitive persons. Eve Protection: Protective glasses if applied to moving parts.

Body Protection: Protective overalls.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Amber Paste Odor/Appearance: Petroleum/Amber Specific Gravity (Typical): Odor Threshold: Not Available Vapor Pressure: <0.01 kPa Vapor Density: Not Available Boiling Point: Not Available Melting Point: 138°C (280°F) % Volatiles: pH: Neutral Density (Typical): 0.89 g/cm³ Freezing Point: Not Available

Evaporation Rate (Butyl Acetate = 1.0): <0.01 Coefficient of Water/Oil Distribution: Not Available

SECTION 10 - STABILITY AND REACTIVITY

Stability: Chemically stable under normal conditions. No photoreactive agents. Powerful sources of ignition and extreme Conditions to Avoid:

temperatures.

Strong acids and oxidizing agents. Materials to Avoid: Hazardous Decomposition Products: May release COx, smoke and irritating vapors when heated to decomposition.

SECTION 11 - TOXICOLOGICAL INFORMATION

Effects of Short-Term (Acute) Exposure: Short term effects not available. Long term dermal application may Effects of Long-Term (Chronic) Exposure: produce possible skin irritation. Elevated temperatures or

mechanical action may form vapors or fumes. Inhalation of oil mists or vapors may cause irritation of the upper respiratory tract.

Irritancy of Product: Not Available Skin Sensitization: Not Available Respiratory Sensitization: Not Available

Carcinogen: IARC: Not Available ACGIH: Not Available Reproductive Toxicity: Not Available Teratogenicity: Not Available **Embryotoxicity**: Not Available Mutagenicity: Not Available Name of Synergistic Products/Effects: Not Available

SECTION 12 - ECOLOGICAL INFORMATION

Possible Effects: May generate oil fractions that could act as a marine pollutant,

but is highly unlikely

Bioaccumulation potential almost nil.

Highly unlikely to cause widespread contamination.

SECTION 13 - DISPOSAL CONSIDERATIONS

Consult federal, provincial and local regulations for disposal of petroleum products.

Do not incinerate

Upper - 7.0%

SECTION 14 - TRANSPORT INFORMATION

TDG (Canada): The mixture is not specifically listed in the Canadian

Transportation of Dangerous Goods regulations.

Not Regulated Land & Rail: Marine: Not Regulated Shipping Name: Not Available UN No.: Not Available Packing Group: Not Available Classification: Not Available Labeling Requirements: Not Available Placard Requirements: Not Available

SECTION 15 - REGULATORY INFORMATION

WHMIS: Not Regulated DSL: All components listed

CPR Compliance: This product has been classified in accordance with the

hazard criteria of the Controlled Product Regulations and the MSDS contains all of the information required by those

regulations

SECTION 16 - OTHER INFORMATION

CPR - Controlled Product Regulations

DSL - Domestic Substance List

As of issue date, the information contained herein is accurate and reliable to the best of Jet-Lube of Canada Ltd.'s knowledge. Jet-Lube of Canada Ltd. does not warrant or guarantee its accuracy or reliability and shall not be liable for any loss or damage arising out of the use thereof. It is the users' responsibility to satisfy themselves that the information offered for their consideration is suitable for their particular use.

Prepared by: Jet-Lube of Canada Ltd. - Laboratory

Last Date of Revision: August 19, 2013