Safety Data Sheet

Section 01 - Product And Company Identification

Product Identifier	Mineral Oil (Duoprime Oil 70)
Other Means of Identification	White mineral oil.
Product Use and Restrictions on Use	Lubricant, process aid in plastics, release agent in food processing, rust and preventative in food processing machinery.
Initial Supplier Identifier	ClearTech Industries Inc. 1500 Quebec Avenue Saskatoon, SK. Canada S7K 1V7
Prepared By	ClearTech Industries Inc. Technical Writer Phone: 1 (800) 387-7503
24-Hour Emergency Phone	Phone: 1 (306) 664 – 2522

Section 02 - Hazard Identification

GHS-Classification

Aspiration Hazard Category 1

Physical Hazards

No known physical hazards.

Danger

Hazards Statements
H304 – May be fatal if swallowed and enters airways.

Pictograms

Precautionary Statements
P405 – Store locked up.
P301 + P310 – IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P331 – Do NOT induce vomiting.
P501 – Dispose of contents/container in accordance with all federal, provincial, and/or local regulations including the Canadian Environmental Protection Act

Section 03 - Composition / Information on Ingredients

Chemical Name	CAS Number	Weight %	Unique Identifiers
White Mineral Oil	8042-47-5	100%	
Vitamin E (d-alpha tocopherol)	59-02-9	< 0.1%	

Section 04 - First Aid Measures

Inhalation

If symptoms are experienced, remove victim to fresh air. Give artificial respiration only if breathing has stopped. If breathing is difficult, give oxygen. Seek medical attention if difficulties persist.

Skin Contact / Absorption

Remove contaminated clothing. Wash affected area with soap and water. Seek immediate medical attention if material is injected under the skin, into muscle or bloodstream.

Eye Contact

Contact lenses should never be worn when working with this product. Flush immediately with water for at least 30 minutes. Forcibly hold eyelids apart to ensure complete irrigation of eye tissue. Seek medical attention.

Ingestion

Do not induce vomiting or give anything by mouth. If vomiting does occur, place head below knees. Place victim on left side with head down if drowsy or unconscious. Seek immediate medical attention.

Additional Information

If ingested, this material does present a significant aspiration hazard. Aspiration may produce chemical pneumonitis. Induction of emesis is not recommended. Consider activated charcoal and/or gastric lavage. If patient is obtunded, protect the airway by cuffed endotracheal intubation or by placement of the body in a Trendelenburg and left lateral decubitus position.

If injected into underlying tissue immediate treatment should include extensive incision, debridement and saline irrigation. Inadequate treatment can result in ischemia and gangrene. Early symptoms may be minimal.

Section 05 - Fire Fighting Measures

Suitable Extinguishing Media

Use foam, dry chemical, water fog or carbon dioxide, use an extinguishing agent suitable for the surrounding fire.

Unsuitable Extinguishing Media

Not Available

Specific Hazards During Fire Fighting

Carbon dioxide, carbon monoxide, fumes, smoke, and unburned hydrocarbons.

Special Protective Equipment for Fire-Fighters

Wear NIOSH-approved self-contained breathing apparatus and protective clothing.

Further Information

Water or foam may cause frothing.

Section 06 - Accidental Release Measures

Personal Precautions / Protective Equipment / Emergency Procedures

Wear appropriate personal protective equipment. Ventilate area. Only enter area with PPE. Stop or reduce leak if safe to do so. Flush with water to remove any residue.

Environmental Precautions

Prevent material from entering sewers and waterways.

Methods and Materials for Containment and Cleaning Up	Ventilate area of spill or leak. For small quantities, absorb on paper towels. Evaporate in a safe place (such as a fume hood). Allow sufficient time for evaporating vapors to completely clear the hood ductwork. Burn the paper in a suitable location away from combustible materials. Large quantities can be collected and atomized in a suitable combustion chamber.

Section 07 - Handling and Storage

Precautions for Safe Handling	Use proper equipment for lifting and transporting all containers. Use sensible industrial hygiene and housekeeping practices. Wash thoroughly after handling. Avoid all situations that could lead to harmful exposure. Do not pressurize, cut, weld, braze solder, drill, grind or expose containers to sparks, flames, heat or other potential ignition sources.
Conditions for Safe Storage	Keep container closed when product is not in use. Store in cool, dry and well ventilated areas. Do not store at temperatures above 48^{o}C and with strong oxidizers. Keep away from extreme heat, sparks, open flame and direct sunlight.
Incompatibilities	Not Available

Section 08 - Exposure Controls and Personal Protection

Exposure Limit(s)

Component	Regulation	Type of Listing	Value
Mineral Oil	ACGIH	TLV-TWA	5mg/m^{3}
	OSHA	PEL-T-TWA	5mg/m^{3}

Engineering Control(s)

Ventilation Requirements	Mechanical ventilation (dilution or local exhaust), process or personnel enclosure and control of process conditions must be provided in accordance with all fire codes and regulatory requirements. Supply sufficient replacement air to make up for air removed by exhaust systems.
Other	Emergency shower and eyewash must be available and tested in accordance with regulations and be in close proximity.

Protective Equipment

Eyes/Face	Chemical goggles, full-face shield, or a full-face respirator is to be worn at all times when product is handled. Contact lenses should not be worn; they may contribute to severe eye injury.
Hand Protection	Impervious gloves of chemically resistant material (rubber or PVC) should be worn at all times. Wash contaminated clothing and dry thoroughly before reuse.
Skin and Body Protection	Body suite, aprons, and/or coveralls of chemical resistant material should be worn at all times. Wash contaminated clothing and dry thoroughly before reuse. Impervious boots of chemically resistant material should be worn at all times. No special footwear is required other than what is mandated at place of work.
Respiratory Protection	Respiratory protection is not anticipated under normal use conditions and with adequate ventilation. If airborne concentrations above appropriate workplace exposure levels are expected, a NIOSH-approved organic vapor respirator with dust/mist prefilter should be used. Respirators should be used in accordance with OSHA requirements (29 CFR1910.134).
Thermal Hazards	Not Available

Section 09 - Physical and Chemical Properties

Appearance

Physical State	Viscous liquid
Colour	Colourless
Odour	Odourless
Odour Threshold	Not Applicable

Property

pH	Not Available
Melting Point/Freezing Point	Not Available
Initial Boiling Point and Boiling Range	218-643°C
Flash Point	193°C (Open cup), 135°C (Closed cup)
Evaporation Rate	Probably negligible
Flammable Properties	This material can burn if strongly heated. The pure oil can accumulate static charge by agitation or pouring. Liquid can float on water and may travel to distant locations and/or spread fire.
Upper Flammable Limit	Not Available
Lower Flammable Limit	Not Available
Vapour Pressure (mm Hg, 20°C)	Probably very low at room temperature.
Vapour Density (Air=1)	Not Available
Relative Density	Not Available
Solubility(ies)	Insoluble in water and alcohol. Soluble in benzene, chloroform, ether, carbon disulfide, petroleum ether.
Partition Coefficient: n-octanol/water	Log P_{OW} = > 6 (Calculated)
Auto-ignition Temperature	260-371.1°C
Decomposition Temperature	Not Available
Viscosity	> 34.5cSt at 40°C
Explosive Properties	Heated vapour can ignite with explosive force in enclosed spaces.
Specific Gravity (Water=1)	0.85
% Volatiles by Volume	Not Available
Formula	Not Available
Molecular Weight	Not Available

Section 10 - Stability and Reactivity

Reactivity	Not Available
Stability	Stable.
Possibility of Hazardous Reactions	None reported.
Conditions to Avoid	Not Available
Incompatible Materials	Not Available
Hazardous Decomposition Products	None known.

Section 11 - Toxicological Information

Acute Toxicity

Component	Oral LD_{50}	Dermal LD_{50}	Inhalation LC_{50}
Mineral Oil (Duoprime Oil 70)	>5000mg/kg (rat)	>2000mg/kg (rat)	> 2180mg/m^3 (rat, 4hr)

Chronic Toxicity – Carcinogenicity

Component	IARC
Mineral Oil	Class 3: Not classifiable as to its carcinogenicity to humans.

Skin Corrosion/Irritation	Non- to very mild irritant.
Serious Eye Damage/Irritation	Non-to very mild irritant.
Ingestion	No significant effects are expected if swallowed. Ingestion of product can cause a laxative effect. Liquid entering into lungs can cause severe damage.
Inhalation	No significant adverse health effects are expected to occur upon short-term exposure.
Respiratory or Skin Sensitization	Not Available
Germ Cell Mutagenicity	Lifetime mouse skin painting studies showed that white mineral oils are not mutagenic.
Reproductive Toxicity	Not Available
STOT-Single Exposure	Causes respiratory tract irritation.
STOT-Repeated Exposure	Not Available
Aspiration Hazard	If aspiration occurs, it may lead to chemical pneumonitis which is characterized by pulmonary edema and hemorrhage and may be fatal.
Synergistic Materials	Not Available

Section 12 - Ecological Information

Ecotoxicity

Component	Toxicity to Algae	Toxicity to Fish	Toxicity to Daphnia and Other Aquatic Invertebrates
Mineral Oil	Not Available	LC_{50}(Oncorhynchus mykiss, 96hr): 2.9mg/L	Not Available

Biodegradability	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Bioaccumulation	Not Available
Mobility	Not Available
Other Adverse Effects	An environmental analysis has not been conducted on this specific product. Petroleum based oils will normally float on water. In stagnant or slow flowing waterways, a layer of oil can cover a large surface are which may result in limiting or eliminating natural atmospheric oxygen transport into the water. Oxygen depletion in waterways may be enough to create an anaerobic environment or cause a fish kill.

Section 13 - Disposal Considerations

Waste From Residues/Unused Products	Dispose in accordance with all federal, provincial, and/or local regulations including the Canadian Environmental Protection Act.
Contaminated Packaging	Dispose in accordance with all federal, provincial, and/or local regulations including the Canadian Environmental Protection Act.

Section 14 - Transport Information

UN Number	Not Regulated
UN Proper Shipping Name	Not Regulated
Transport Hazard Class(es)	Not Regulated
Packaging Group	Not Regulated
Environmental Hazards	Not listed as a marine pollutant under Canadian TDG Regulations, schedule III.
Special Precautions	Not Available
Transport in Bulk	Not Available

TDG

Other	Secure containers (full and/or empty) with suitable hold down devises during shipment and ensure all caps, valves, or closures are secured in the closed position.

TDG PRODUCT CLASSIFICATION: This product has been classified on the preparation date specified at section 14 of this MSDS / SDS, for transportation in accordance with the requirements of part 2 of the Transportation of Dangerous Goods Regulations. If applicable, testing and/or published test data regarding the classification of this product are listed in the references at section 16 of this MSDS / SDS.

Section 15 - Regulatory Information

NOTE: THE PRODUCT LISTED ON THIS SDS HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CANADIAN CONTROLLED PRODUCTS REGULATIONS. THIS SDS CONTAINS ALL INFORMATION REQUIRED BY THOSE REGULATIONS.

Section 16 - Other Information

Preparation Date	August 10, 2015

Note: The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations.

Attention: Receiver of the chemical goods / SDS coordinator

As part of our commitment to the Canadian Association of Chemical Distributors (CACD) Responsible Distribution® initiative, ClearTech Industries Inc. and its associated companies require, as a condition of sale, that you forward the attached Safety Data Sheet(s) to all affected employees, customers, and end-users. ClearTech will send any available supplementary handling, health, and safety information to you at your request.

If you have any questions or concerns please call our customer service center or technical service department.

References:

1) CHEMINFO
2) eChemPortal
3) TOXNET
4) Transport Canada
5) HSDB
6) ECHA
7) PAN

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