Section 01 - Chemical And Product And Company Information

Product Identifier .................................... Mineral Oil (Duoprime Oil 90)

Product Use .......................................... Lubricant, process aid in plastics, release agent in food processing, rust preventative in food processing machinery

Supplier Name ....................................... ClearTech Industries Inc.
1500 Quebec Avenue
Saskatoon, SK. Canada
S7K 1V7

Prepared By ........................................... ClearTech Industries Inc. Technical Department
Phone: 1 (800) 387-7503

24-Hour Emergency Phone ....................... 1 (800) 387-7503

Section 02 - Composition / Information on Ingredients

Hazardous Ingredients ......................... White Mineral Oil 100%
                                          Vitamin E (d-alpha tocopherol) < 0.1%

CAS Number ........................................ White Mineral Oil 8042-47-5
                                             Vitamin E (d-alpha tocopherol) 59-02-9

Synonym (s) ........................................... White mineral oil

Section 03 - Hazard Identification

Inhalation ........................................ No significant adverse health effects are expected to occur upon short-term exposure.

Skin Contact / Absorption ....................... No significant irritation is expected to occur upon short-term exposure.

Eye Contact ........................................ Mild eye irritation may result from contact with liquid, mist and/or vapor.

Ingestion ........................................... No significant effects are expected if swallowed. Ingestion of product can cause a laxative effect. Liquid entering into lungs can cause severe damage.
Exposure Limits
ACGIH/TWA: 5mg/m³ (oil mist, mineral)
ACGIH/STEL: 10mg/m³ (oil mist, mineral)
OSHA/TWA: 5mg/m³ (oil mist, mineral)

Section 04 - First Aid Measures

Inhalation
Material not expected to cause any inhalation type disorders. In case of overexposure, remove victim to fresh air. Seek medical attention if difficulties persist.

Skin Contact / Absorption
Remove contaminated clothing. Wash affected area with soap and water. Seek medical attention if irritation occurs or persists. Seek immediate medical attention if material is injected under the skin, into muscle or bloodstream.

Eye Contact
Flush immediately with water for at least 20 minutes. Forcefully hold eyelids apart to ensure complete irrigation of eye tissue. Seek medical attention if irritation persists.

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

Conditions of Flammability
Slightly combustible material (NFPA Class IIIB material). May be combustible at high temperature.

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

Flash Point
266°C (Open cup)

Auto-ignition Temperature
400°C

Upper Flammable Limit
Not Available
Lower Flammable Limit................. Not Available

Hazardous Combustible Products.... Carbon dioxide, carbon monoxide, fumes, smoke, and unburned hydrocarbons.

Special Fire Fighting Procedures..... Wear NIOSH-approved self-contained breathing apparatus and protective clothing. This material can burn but will not readily ignite. Mists or sprays may burn at temperatures below the flashpoint.

Explosion Hazards..................... Heated vapor can ignite with explosive force in enclosed spaces.

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Section 06 - Accidental Release Measures

Leak / Spill............................. Wear appropriate personal protective equipment if required. Ventilate area. Stop or reduce leak if safe to do so. Prevent material from entering sewers and waterways. Flush with water to remove any residue. For small spills, absorb or cover material with dry earth, sand or other inert non-combustible absorbent material and place into waste containers for disposal. Large spills are to be contained for recovery or disposal. This material will float on water.

Deactivating Materials............... Not Available

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Section 07 - Handling and Storage

Handling Procedures.................. 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.

Storage Requirements................ Keep container closed when product is not in use. Store in cool, dry and well ventilated areas. Do not store at temperatures above 48°C and with strong oxidizers. Keep away from extreme heat, sparks, open flame and direct sunlight.

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Section 08 - Personal Protection and Exposure Controls

Protective Equipment

Eyes...................................... 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.
Respiratory

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 CFR 1910.134).

Gloves

Impervious gloves of chemically resistant material (nitrile rubber) should be worn. Wash contaminated clothing and dry thoroughly before reuse.

Clothing

Body suits, aprons, and/or coveralls of chemical resistant material should be worn. Wash contaminated clothing and dry thoroughly before reuse.

Footwear

Impervious boots of chemically resistant material should be worn.

Engineering Controls

Ventilation Requirements

Mechanical ventilation (dilution or local exhaust), process or personnel enclosure and control of process conditions should be provided. Supply sufficient replacement air to make up for air removed by exhaust systems.

Other

Keep an eye wash fountain and safety shower available and in close proximity to work area.

Section 09 - Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Viscous Liquid</td>
</tr>
<tr>
<td>Odor and Appearance</td>
<td>Odorless, colorless liquid</td>
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<tr>
<td>Odor Threshold</td>
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</tr>
<tr>
<td>Specific Gravity (Water=1)</td>
<td>0.85</td>
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<tr>
<td>Vapor Pressure (mm Hg, 20°C)</td>
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<tr>
<td>Vapor Density (Air=1)</td>
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<tr>
<td>Evaporation Rate</td>
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<tr>
<td>Boiling Point</td>
<td>Not Available</td>
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<tr>
<td>Freeze/Melting Point</td>
<td>Not Available</td>
</tr>
<tr>
<td>pH</td>
<td>Not Available</td>
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<tr>
<td>Water/Oil Distribution Coefficient</td>
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</tbody>
</table>
Bulk Density................................. 7.11 lbs/gal

% Volatiles by Volume...................... Not Available

Solubility in Water.......................... Insoluble in cold water

Molecular Formula........................... Not Available

Molecular Weight........................... Not Available

**Section 10 - Stability and Reactivity**

Stability...................................... Stable

Incompatibility.............................. Strong oxidizers

Hazardous Products of Decomposition... No other hazardous decomposition products were identified other than ones listed in Section 5 of this MSDS.

Polymerization.............................. Not expected to occur.

**Section 11 - Toxicological Information**

Irritancy...................................... Slightly irritating

Sensitization............................... Not Available

Chronic/Acute Effects...................... Mineral oil mists from highly refined oils are reported to have low acute and sub-acute toxicities in animals. Repeated or prolonged inhalation of petroleum-based mineral oil mists at concentrations above applicable workplace exposure levels can cause respiratory irritation or other pulmonary effects.

Synergistic Materials..................... Not Available

Animal Toxicity Data....................... LD_{50}(rat, oral): >5000mg/kg
LD_{50}(rabbit, dermal): >2000mg/kg
LC_{50}(rat, inhalation): >5.2 mg/l (4 hours)

Carcinogenicity............................. Long term studies of up to two years showed no carcinogenic effects have been reported in any animal species tested. This product is not known to contain any components which are believed to be carcinogenic by OSHA, IARC and NTP.

Reproductive Toxicity..................... Not Available
Teratogenicity................................. Not Available

Mutagenicity................................. Lifetime mouse skin painting studies showed that white mineral oils are not mutagenic.

Section 12 - Ecological Information

Fish Toxicity................................. Ecological effects have not been conducted on this product. If spilled however, this product and any contaminated water or soil may be harmful to human, animal and aquatic life. Coating action of petroleum products can be harmful or fatal to aquatic life and waterfowl.

Biodegradability............................ Product will have little to no tendency to partition to air based on similar materials. Not readily susceptible to hydrolysis under aquatic conditions.

Environmental 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 area 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 Consideration

Waste Disposal............................... Dispose in accordance with all federal, provincial, and/or local regulations including the Canadian Environmental Protection Act.

Section 14 - Transportation Information

TDG Classification

Class................................................. Not regulated

Group................................................. Not regulated

PIN Number....................................... Not regulated

Other................................................. Secure containers (full and/or empty) with suitable hold down devices during shipment.

PRODUCT CLASSIFICATION: This product has been classified on the preparation date specified at section 16 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 MSDS HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CANADIAN CONTROLLED PRODUCTS REGULATIONS. THIS MSDS CONTAINS ALL INFORMATION REQUIRED BY THOSE REGULATIONS.

NSF Certification.................................Product is registered as a H1 and 3H lubricant for direct and incidental food contact.

Section 16 - Other Information

Preparation Date.................................. December 8, 2010
Revision Date..................................... December 30th, 2013
March 18, 2014

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 / MSDS coordinator

As part of our commitment to the Canadian Association of Chemical Distributors (CADC) Responsible Distribution® initiative, ClearTech Industries Inc. and its associated companies require, as a condition of sale, that you forward the attached Material 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 or technical service department.

ClearTech Industries Inc. - Locations

Corporate Head Office: 1500 Quebec Avenue, Saskatoon, SK, S7K 1V7
Phone: 306-664-2522
Fax: 306-665-6216
www.ClearTech.ca

<table>
<thead>
<tr>
<th>Location</th>
<th>Address</th>
<th>Postal Code</th>
<th>Phone Number</th>
<th>Fax Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Richmond, B.C.</td>
<td>12431 Horseshoe Way</td>
<td>V7A 4X6</td>
<td>1 (800) 387-7503</td>
<td>1 (888) 281-8109</td>
</tr>
<tr>
<td>Port Coquitlam</td>
<td>2023 Kingsway Ave</td>
<td>V3C 1S9</td>
<td>1 (800) 387-7503</td>
<td>1 (888) 281-8109</td>
</tr>
<tr>
<td>Calgary, AB.</td>
<td>5516E - 40th St. S.E.</td>
<td>T2C 2A1</td>
<td>1 (800) 387-7503</td>
<td>1 (888) 281-8109</td>
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<tr>
<td>Edmonton, AB.</td>
<td>11750 - 180th Street</td>
<td>T5S 1N7</td>
<td>1 (800) 387-7503</td>
<td>1 (888) 281-8109</td>
</tr>
<tr>
<td>Saskatoon, SK.</td>
<td>1500 Quebec Avenue</td>
<td>S7K 1V7</td>
<td>1 (800) 387-7503</td>
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<td>Regina, SK.</td>
<td>555 Henderson Drive</td>
<td>S4Z 5X2</td>
<td>1 (800) 387-7503</td>
<td>1 (888) 281-8109</td>
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<tr>
<td>Winnipeg, MB.</td>
<td>340 Saulteaux Crescent</td>
<td>R3J 3T2</td>
<td>1 (800) 387-7503</td>
<td>1 (888) 281-8109</td>
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</tbody>
</table>
24 Hour Emergency Number - All Locations – 1 (800) 387-7503