

HT 450

S70-705-16-10181

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**SAFETY DATA SHEET****SECTION 1. IDENTIFICATION****Product identifier used on the label**: **HT 450****Product Code(s)** : S70-705-16-10181**Recommended use of the chemical and restrictions on use**: Lubricating base stock.  
Restriction on use: None known**Chemical family** : Petroleum hydrocarbon.**Name, address, and telephone number of the supplier:****Terrapure Environmental**130 Forester Street  
North Vancouver, BC, Canada  
V7H 2M9

Supplier's Telephone # : (604) 982-2363

**24 Hr. Emergency Tel #** : In case of transportation emergencies: (613) 996-6666 (CANUTEC)  
For other emergencies: (800) 567-7455 (Terrapure Environmental)**Name, address, and telephone number of the manufacturer:**

Refer to supplier

**SECTION 2. HAZARDS IDENTIFICATION****Classification of the chemical**

Clear, Yellow liquid. Hydrocarbon odour.

This material is not classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

**Label elements***Signal Word*

Not applicable.

*Hazard statement(s)*

None required under OSHA HazCom2012 and 2015 Canadian WHMIS regulations.

*Precautionary statement(s)*

None required under OSHA HazCom2012 and 2015 Canadian WHMIS regulations.

**Other hazards**

Inhalation of fumes or mists may cause irritation to the nose, throat and upper respiratory tract. Prolonged contact with skin may cause skin irritation. Vapours may irritate eyes. Ingestion may cause irritation of mouth, throat, and stomach, nausea, vomiting, and diarrhea. Product may present an aspiration hazard, if ingested in large amounts, causing life-threatening lung injury.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Pure substance

<u>Chemical name</u>	<u>Common name and synonyms</u>	<u>CAS #</u>	<u>Concentration (% by weight)</u>
Lubricating oils, refined	Lubricating oils, refined	68476-77-7	100%

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### SECTION 4. FIRST-AID MEASURES

#### Description of first aid measures

- Ingestion* : Do not induce vomiting. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the risk of aspiration. If irritation or symptoms develop, seek medical attention.
- Inhalation* : First Aid is normally not required. If INHALED excessively remove to fresh air. Get medical attention if irritation develops and persists.
- Skin contact* : Wash with plenty of water and soap. Do not use solvents. Remove and wash contaminated clothing before re-use. If irritation or symptoms develop, seek medical attention.
- Eye contact* : Flush with large amounts of water for 15 minutes. If easy to do, remove contact lens, if worn. If irritation persists, seek prompt medical attention.

#### Most important symptoms and effects, both acute and delayed

- : Inhalation of fumes or mists may cause irritation to the nose, throat and upper respiratory tract. Prolonged contact with skin may cause skin irritation. Vapours may irritate eyes. Ingestion may cause irritation of mouth, throat, and stomach, nausea, vomiting, and diarrhea. Product may present an aspiration hazard, if ingested in large amounts, causing life-threatening lung injury.

#### Indication of any immediate medical attention and special treatment needed

- : Treat symptomatically.

### SECTION 5. FIRE-FIGHTING MEASURES

#### Extinguishing media

- Suitable extinguishing media* : Dry chemical, foam, carbon dioxide and water fog. Do not use water jet, as this may spread burning material.

- Unsuitable extinguishing media* : None known.

#### Special hazards arising from the substance or mixture / Conditions of flammability

- : None known.

#### Flammability classification (OSHA 29 CFR 1910.106)

- : Not flammable.

#### Hazardous combustion products

- : Carbon oxides and other irritating fumes and smoke.

#### Special protective equipment and precautions for firefighters

- Protective equipment for fire-fighters* : As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

*Special fire-fighting procedures*

- : Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

- : All persons dealing with the clean-up should wear the appropriate chemically protective equipment. Keep all other personnel upwind and away from the spill/release. Restrict access to area until completion of clean-up. Refer to protective measures listed in sections 7 and 8.

- Environmental precautions** : Ensure spilled product does not enter drains, sewers, waterways, or confined spaces. For large spills, dike the area to prevent spreading.

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### Methods and material for containment and cleaning up

- : Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Small Spills: Ventilate area of release. Remove all sources of ignition. Use only non-sparking tools and equipment in the clean-up process. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal (see Section 13).  
 Large Spills: For large spills on surfaces other than pavement (e.g. soil or sand), spills may be handled by digging up and removing the affected surface and placing it in approved containers. Notify the appropriate authorities as required.

### Special spill response procedures

- : If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8802).  
 US CERCLA Reportable quantity (RQ): None.

## SECTION 7. HANDLING AND STORAGE

### Precautions for safe handling

- : Use in a well-ventilated area. Wear suitable protective equipment during handling. Avoid breathing vapours, fumes or mists. Avoid contact with skin, eyes and clothing. Keep away from heat, sparks and open flames. Avoid contact with incompatible materials. Wash thoroughly after handling.

**Conditions for safe storage** : Store in a cool, dry, well-ventilated area. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. No smoking in the area.

**Incompatible materials** : Strong oxidizing agents (e.g. chlorates; nitrates; peroxides).

## SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<u>Exposure Limits:</u>				
<u>Chemical Name</u>	<u>ACGIH TLV</u>		<u>OSHA PEL</u>	
	<u>TWA</u>	<u>STEL</u>	<u>PEL</u>	<u>STEL</u>
Lubricating oils, refined	N/Av	N/Av	N/Av	N/Av

### Exposure controls

#### Ventilation and engineering measures

- : Use in a well-ventilated area. General mechanical ventilation and local exhaust is recommended for use with this product.

**Respiratory protection** : Not required under normal conditions of handling. Respiratory protection is required if the concentrations exceed the TLV. NIOSH-approved respirators are recommended. Advice should be sought from respiratory protection specialists.

**Skin protection** : Not required under normal conditions of handling. For prolonged skin exposure, gloves impervious to the material are recommended. Advice should be sought from glove suppliers.

**Eye / face protection** : Safety glasses with side shields should be used with this product. Chemical goggles are recommended when there is a potential for splashing. Do not wear contact lenses.

**Other protective equipment** : An eyewash station and safety shower should be made available in the immediate working area. Other equipment may be required depending on workplace standards.

#### General hygiene considerations

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: Avoid breathing vapours, fumes or mists. Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove soiled clothing and wash it thoroughly before reuse.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** : Clear, Yellow.  
**Odour** : Hydrocarbon  
**Odour threshold** : N/Av  
**pH** : N/Av  
**Melting/Freezing point** : -9 ° C (pour point)  
**Initial boiling point and boiling range**  
: > 300°C  
**Flash point** : > 240°C  
**Flashpoint (Method)** : Cleveland Open Cup  
**Evaporation rate (BuAe = 1)** : N/Av  
**Flammability (solid, gas)** : Not Flammable  
**Lower flammable limit (% by vol.)**  
: N/Av  
**Upper flammable limit (% by vol.)**  
: N/Av  
**Oxidizing properties** : Not known.  
**Explosive properties** : N/Av  
**Vapour pressure** : N/Av  
**Vapour density** : > 1  
**Relative density / Specific gravity**  
: 0.860 @ 15.6°C  
**Solubility in water** : Immiscible  
**Other solubility(ies)** : N/Av  
**Partition coefficient: n-octanol/water or Coefficient of water/oil distribution**  
: N/Av  
**Auto-ignition temperature** : N/Av  
**Decomposition temperature** : N/Av  
**Viscosity** : 77.2 cSt @ 40°C  
**Volatiles (% by weight)** : <0.5 g/L  
**Volatile organic Compounds (VOC's)**  
: N/Av  
**Absolute pressure of container**  
: N/Av  
**Flame projection length** : N/Av  
**Other physical/chemical comments**  
: None known or reported by the manufacturer.

### SECTION 10. STABILITY AND REACTIVITY

**Reactivity** : Not expected to be reactive.  
**Chemical stability** : Stable under normal conditions.  
**Possibility of hazardous reactions**  
: Hazardous polymerization does not occur.  
**Conditions to avoid** : Avoid heat and open flame. Keep away from direct sunlight. Do not use in areas without adequate ventilation. Avoid contact with incompatible materials.

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- Incompatible materials** : Strong oxidizing agents (e.g. chlorates; nitrates; peroxides).  
**Hazardous decomposition products** : None known, refer to hazardous combustion products in Section 5.

### SECTION 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure:**

- Routes of entry inhalation** : YES  
**Routes of entry skin & eye** : YES  
**Routes of entry Ingestion** : YES  
**Routes of exposure skin absorption** : YES

**Potential Health Effects:**

**Signs and symptoms of short-term (acute) exposure**

*Sign and symptoms Inhalation*

- : Inhalation of fumes or mists may cause irritation to the nose, throat and upper respiratory tract.

*Sign and symptoms ingestion*

- : May cause irritation of mouth, throat, and stomach. May cause nausea, stomach pain and vomiting. Product may present an aspiration hazard, if ingested in large amounts, causing life-threatening lung injury.

*Sign and symptoms skin*

- : May cause skin irritation. Prolonged contact, such as when trapped against the skin under clothing or jewelry, may be more irritating.

*Sign and symptoms eyes*

- : Vapours may irritate eyes. May cause mild, transient discomfort to eyes.

**Potential Chronic Health Effects**

- : Prolonged skin contact may cause dermatitis (rash), characterized by red, dry, itching skin.

**Mutagenicity** : Not expected to be mutagenic in humans.

**Carcinogenicity** : No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.

**Reproductive effects & Teratogenicity**

- : Not expected to have other reproductive effects.

**Sensitization to material** : Not expected to be a skin or respiratory sensitizer.

**Specific target organ effects** : This material is not classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

**Medical conditions aggravated by overexposure**

- : Pre-existing skin, eye and respiratory disorders.

**Synergistic materials** : None known or reported by the manufacturer.

**Toxicological data** :

<u>Chemical name</u>	<u>LC<sub>50</sub>(4hr)</u>	<u>LD<sub>50</sub></u>	
	<u>inh. rat</u>	<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
Lubricating oils, refined	N/Av	N/Av	N/Av

**Other important toxicological hazards**

- : See Section 2 for additional information.

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### SECTION 12. ECOLOGICAL INFORMATION

**Ecotoxicity** : The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters.

**Ecotoxicity data:**

<u>Ingredients</u>	CAS No	Toxicity to Fish		
		LC50 / 96h	NOEC / 21 day	M Factor
Lubricating oils, refined	68476-77-7	N/Av	N/Av	None.

<u>Ingredients</u>	CAS No	Toxicity to Daphnia		
		EC50 / 48h	NOEC / 21 day	M Factor
Lubricating oils, refined	68476-77-7	N/Av	N/Av	None.

<u>Ingredients</u>	CAS No	Toxicity to Algae		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor
Lubricating oils, refined	68476-77-7	N/Av	N/Av	None.

**Persistence and degradability**

: Not expected to be rapidly biodegradable.

**Bioaccumulation potential**

: No data is available on the product itself.

<u>Components</u>	<u>Partition coefficient n-octanol/water (log Kow)</u>	<u>Bioconcentration factor (BCF)</u>
Lubricating oils, refined (CAS 68476-77-7)	N/Av	N/Av

**Mobility in soil** : No data is available on the product itself.

**Other Adverse Environmental effects**

: No data is available on the product itself.

### SECTION 13. DISPOSAL CONSIDERATIONS

**Handling for Disposal**

: Handle waste according to recommendations in Section 7. Empty containers retain residue (liquid and/or vapour) and can be dangerous. Do not cut, weld, drill or grind on or near this container.

**Methods of Disposal**

: Dispose of in accordance with federal, provincial and local hazardous waste laws.

**RCRA**

: Under the RCRA, it is the responsibility of the waste generator to determine the proper waste identification and disposal method.

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### SECTION 14. TRANSPORTATION INFORMATION

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
TDG	None.	Not regulated.	Not regulated	none	
<b>TDG Additional information</b>	None.				
49CFR/DOT	None.	Not regulated.	not regulated	none	
<b>49CFR/DOT Additional information</b>	None.				
ICAO/IATA	None.	Not regulated.	not regulated	none	
<b>ICAO/IATA Additional information</b>	None.				
IMDG	None.	Not regulated.	not regulated	none	
<b>IMDG Additional information</b>	None.				

**Special precautions for user** : Keep away from heat, sparks and open flame. - No smoking.

**Environmental hazards** : This product does not meet the criteria for an environmentally hazardous mixture, according to the IMDG Code. See ECOLOGICAL INFORMATION, Section 12.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**  
 : No information available.

### SECTION 15 - REGULATORY INFORMATION

**US Federal Information:**

Components listed below are present on the following U.S. Federal chemical lists:

<u>Ingredients</u>	CAS #	TSCA Inventory	CERCLA Reportable Quantity(RQ) (40 CFR 117.302):	SARA TITLE III: Sec. 302, Extremely Hazardous Substance, 40 CFR 355:	SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical	
					Toxic Chemical	de minimus Concentration
Lubricating oils, refined	68476-77-7	Yes	N/Ap	N/Av	No	N/Av

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes: None.

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### US State Right to Know Laws:

The following chemicals are specifically listed by individual States:

<u>Ingredients</u>	CAS #	California Proposition 65		State "Right to Know" Lists					
		Listed	Type of Toxicity	CA	MA	MN	NJ	PA	RI
Lubricating oils, refined	68476-77-7	No	N/Ap	No	No	No	No	No	No

### Canadian Information:

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on the Domestic Substances List (DSL).

### International Information:

Components listed below are present on the following International Inventory list:

<u>Ingredients</u>	CAS #	European EINECS	Australia AICS	Philippines PICCS	Japan ENCS	Korea KECI/KECL	China IECSC	NewZealand IOC
Lubricating oils, refined	68476-77-7	270-697-6	Present	Not listed	Not listed	Not listed	Present	Not listed

## SECTION 16. OTHER INFORMATION

### Legend

: ACGIH: American Conference of Governmental Industrial Hygienists  
 CAS: Chemical Abstract Services  
 CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980  
 CFR: Code of Federal Regulations  
 DOT: Department of Transportation  
 EPA: Environmental Protection Agency  
 EST: Eastern Standard Time  
 HMIS: Hazardous Materials Identification System  
 HSDB: Hazardous Substances Data Bank  
 IARC: International Agency for Research on Cancer  
 Inh: Inhalation  
 LC: Lethal Concentration  
 LD: Lethal Dose  
 N/Ap: Not Applicable  
 N/Av: Not Available  
 NIOSH: National Institute of Occupational Safety and Health  
 OSHA: Occupational Safety and Health Administration  
 PEL: Permissible exposure limit  
 RCRA: Resource Conservation and Recovery Act  
 RTECS: Registry of Toxic Effects of Chemical Substances  
 SARA: Superfund Amendments and Reauthorization Act  
 STEL: Short Term Exposure Limit  
 TLV: Threshold Limit Values  
 TWA: Time Weighted Average  
 WHMIS: Workplace Hazardous Materials Identification System



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**References** :

1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices for 2016
2. International Agency for Research on Cancer Monographs, searched 2016
3. Canadian Centre for Occupational Health and Safety, CCInfoWeb databases, 2016(Chempendium, HSDB and RTECs).
4. Material Safety Data Sheets from manufacturer.
5. US EPA Title III List of Lists - 2016 version.
6. California Proposition 65 List - 2016 version.
7. OECD - The Global Portal to Information on Chemical Substances - eChemPortal,2016.

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**Other special considerations for handling**

: Provide adequate information, instruction and training for operators.

**HMIS Rating**

: \* - Chronic hazard 0 - Minimal 1 - Slight 2 - Moderate 3 - Serious 4 - Severe

*Health: 1 Flammability: 1 Reactivity: 0*

**NFPA Rating**

0 - Minimal 1 - Slight 2 - Moderate 3 - Serious 4 - Severe

: *Health: 1 Flammability: 1 Instability: 0 Special Hazards: None*

<p><b>Prepared for:</b>                  Terrapure Environmental                  130 Forster Street                  North Vancouver, BC V7H 2M9                  Telephone: 604-982-2363  <a href="http://www.terratureenv.com/">http://www.terratureenv.com/</a></p>	
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