



This safety data sheet was created pursuant to the requirements of: Canadian WHMIS 2015, OSHA 2012

# Heat Transfer oil

Revision date 21-Aug-2020

Revision Number 1

## 1. Identification

Product identifier

Product Name Heat Transfer oil

Other means of identification

Product Code(s) 650 Synonyms None

Recommended use of the chemical and restrictions on use

Recommended useLubricantRestrictions on useNo information available

Details of the supplier of the safety data sheet

Initial Supplier Identifier AXEL Royal, LLC 516 S. 25th West Ave Tulsa, OK 74127 United States 918 584 2671 Supplier address AXEL Royal, LLC 516 S. 25th West Ave Tulsa, OK 74127 United States 918 584 2671

## Emergency telephone number

ChemTel Emergency telephone 1-800-255-3924 International Emergency telephone +01-813-248-0585

## 2. Hazard(s) identification

#### Classification

Not classified.

#### Label elements

Not classified.

Other information Unknown acute toxicity Not applicable

3. Composition/information on ingredients

## Substance

Not applicable.

## Mixture

The product contains no substances which at their given concentration, are considered to be hazardous to health.

Ingredient comments	The mineral oils in the product contain <3% DMSO-extract (IP 346).				
	4. First-aid measures				
Description of first aid measures					
Inhalation	Move to fresh air in case of accidental inhalation of vapors.				
Eye contact	Rinse thoroughly with plenty of water, also under the eyelids.				
Skin contact	Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.				
Ingestion	Clean mouth with water and drink afterwards plenty of water. Do not induce vomiting without medical advice. Get medical attention if symptoms occur.				
Most important symptoms and effe	ects, both acute and delayed				
Symptoms	No information available.				
Indication of any immediate medica	al attention and special treatment needed				
Note to physicians	Treat symptomatically.				
	5. Fire-fighting measures				
Suitable extinguishing media					
Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. CO2, dry chemical, dry sand, alcohol-resistant foam.				
Unsuitable extinguishing media	Do not use a solid water stream as it may scatter and spread fire.				
Special exposure hazards in a fire					
<b>Specific hazards arising from the</b> Fire may produce irritating, corrosive and/or toxic gases. <b>chemical</b>					
Hazardous combustion products	Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. These may be highly dangerous if inhaled in confined spaces or at high concentration.				
Protective equipment and precauti	ons for firefighters				
Special protective equipment for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.				
	6. Accidental release measures				
Personal precautions, protective e	quipment and emergency procedures				
Personal precautions	Extremely slippery when spilled. Avoid contact with skin and eyes. Avoid breathing vapors or mists. Use personal protective equipment as required.				
For emergency responders	Use personal protection recommended in Section 8.				
Methods and material for containm	ent and cleaning up				

Methods for containment	Prevent further leakage or spillage if safe to do so.		
Methods for cleaning up	Use personal protective equipment as required. Take up with sand or other noncombustible absorbent material and place into containers for later disposal.		
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.		
Reference to other sections	See section 8 for more information. See section 13 for more information.		

## 7. Handling and storage

#### Precautions for safe handling

Advice on safe handling	Ensure adequate ventilation. Avoid contact with eyes and prolonged or repeated contact with skin.			
General hygiene considerations	<b>ne considerations</b> Handle in accordance with good industrial hygiene and safety practice.			
Conditions for safe storage, including any incompatibilities				

Storage Conditions Keep container tightly closed in a dry and well-ventilated place. Keep at a temperature not exceeding 45 °C.

## 8. Exposure controls/personal protection

#### Control parameters

**Exposure Limits** 

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

#### Appropriate engineering controls

**Engineering controls** 

Showers Eyewash stations Ventilation systems

## Individual protection measures, such as personal protective equipment



Hand protection	Wear protective nitrile rubber gloves, Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves		
Eye/face protection	Wear safety glasses with side shields (or goggles).		
Skin and body protection	No special protective equipment required.		
Respiratory protection	None under normal use conditions. If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Respirator		

protection must be provided in accordance with current local regulations.

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

## 9. Physical and chemical properties

## Information on basic physical and chemical properties

Physical state Appearance Color Odor Odor threshold	Liquid No information available No information available No information available No information available	
<u>Property</u> pH Melting point / freezing point Boiling point / boiling range Flash point Evaporation rate Flammability (solid, gas) Flammability Limit in Air	<u>Values</u> > 93.5 °C / > 200.3 °F	Remarks • Method No information available No information available No information available ASTM D92 No information available No information available No information available
Upper flammability or explosive limits Lower flammability or explosive	No data available No data available	
limits Vapor pressure Vapor density Relative density Water solubility Solubility in other solvents Partition coefficient	Insoluble in water	No information available No information available No information available No information available No information available No information available
Autoignition temperature Decomposition temperature Kinematic viscosity Dynamic viscosity	> 20.5 mm²/s	No information available No information available @ 40 °C No information available
Other information		
Explosive properties Oxidizing properties VOC Content (%) Liquid Density	None under normal use conditions No information available 0 < 1000 kg/m <sup>3</sup> @ 25 °C / 77 °F	
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## 10. Stability and reactivity

Stable.
Stable under normal conditions.
None under normal processing.
Hazardous polymerization does not occur.
Excessive heat.

Incompatible materials

Incompatible materials

Strong oxidizing agents.

## Hazardous decomposition products

Hazardous decomposition products None under normal use conditions.

## 11. Toxicological information

## Information on likely routes of exposure

Product Information	Product does not present an acute toxicity hazard based on known or supplied information		
Inhalation	Not an expected route of exposure. Specific test data for the substance or mixture is not available.		
Eye contact	Not expected to cause eye irritation.		
Skin contact	Non-irritating during normal use. Prolonged or repeated contact may dry skin and cause irritation.		
Ingestion	No known hazard by swallowing. May cause gastrointestinal discomfort if consumed in large amounts.		
Symptoms related to the physical,	chemical and toxicological characteristics		
Symptoms	No information available.		
Acute toxicity			
Numerical measures of toxicity			
The following values are calculated ATEmix (oral) ATEmix (dermal)	<b>I based on chapter 3.1 of the GHS document</b> . 15,338.40 mg/kg 5,112.80 mg/kg		
Unknown acute toxicity Not applicable.			
Component Information			
Delayed and immediate effects as v	vell as chronic effects from short and long-term exposure		
Skin corrosion/irritation	Based on available data, the classification criteria are not met.		
Serious eye damage/eye irritation	Based on available data, the classification criteria are not met.		
Respiratory or skin sensitization	Based on available data, the classification criteria are not met.		
Germ cell mutagenicity	Based on available data, the classification criteria are not met.		
Carcinogenicity	Based on available data, the classification criteria are not met.		
Reproductive toxicity	Based on available data, the classification criteria are not met.		
STOT - single exposure	Based on available data, the classification criteria are not met.		
STOT - repeated exposure	Based on available data, the classification criteria are not met.		

## **Ecotoxicity**

Ecotoxicity	The environmental impact of this product has not been fully investigated.				
Persistence and degradability					
Persistence and degradability	Not readily biodegradable.				
Bioaccumulative potential					
Bioaccumulation	No information available.				
Mobility					
Mobility in soil	After release, adsorbs onto soil.				
Mobility	Insoluble in water.				
Other adverse effects					
Other adverse effects No information available.					
	13. Disposal considerations				
Waste treatment methods					
Waste from residues/unused products	Dispose of in accordance with federal, state and local regulations. Should not be released into the environment. Use personal protection recommended in Section 8.				
Contaminated packaging	Dispose of in accordance with federal, state and local regulations.				
Other information	Waste codes should be assigned by the user based on the application for which the product was used				

# 14. Transport information

DOT Not regulated

TDG No information available

<u>MEX</u> No information available

ICAO (air) Not regulated

IATA Not regulated

IMDG Not regulated

RID Not regulated

## <u>ADR</u>

Not regulated

## ADN

Not regulated

## 15. Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture International Regulations The Montreal Protocol on Not applicable Substances that Deplete the Ozone Layer The Stockholm Convention on Not applicable **Persistent Organic Pollutants** The Rotterdam Convention Not applicable International Inventories Complies TSCA Complies DSL/NDSL **EINECS/ELINCS** REACH Contact supplier for inventory compliance status ENCS **IECSC** Complies Complies KECL PICCS Complies AICS Complies NZIoC TSCI Legend TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances **REACH** - Registration, Evaluation, Authorization, and Restriction of Chemicals Regulation (EC 1907/2006)

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

NZIOC - New Zealand Inventory of Chemicals

TSCI - Taiwan Chemical Substance Inventory

## **US Federal Regulations**

SARA 313	Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.
SARA 311/312 Hazard Categories	Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications. Under the amended regulations at 40 CFR 370, EPCRA 311/312 Tier II reporting for the 2017 calendar year will need to be consistent with updated hazard classifications.
CWA (Clean Water Act)	This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).
CERCLA	This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability

Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

#### US State Regulations

California Proposition 65



WARNING This product can expose you to chemicals including those listed below, which is [are] known to the State of California to cause cancer, birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

Chemical name	California Proposition 65
Ethylbenzene 100-41-4 (<0.1 %)	Carcinogen
Naphthalene 91-20-3 (<0.1 %)	Carcinogen

#### U.S. State Right-to-Know Regulations

## **US State Regulations**

Chemical name	New Jersey	Massachusetts	Pennsylvania
Mineral oil	-	Х	-
64742-53-6			

### U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. Other information					
NFPA	Health hazards 0	Flammability	1 <b>In</b>	nstability 0	Physical and chemical properties -
HMIS	Health hazards 0	Flammability	1 <b>P</b>	hysical hazards 0	Personal protection B
Key or legend to abl   Section 8: EXPOSUR   TWA TY   Ceiling M   Key literature refere Agency for Toxic Sub   U.S. Environmental P European Food Safet   EPA (Environmental P Acute Exposure Guid   U.S. Environmental P U.S. Environmental P   S. Environmental P U.S. Environmental P   Joad Research Journ Hazardous Substance   International Uniform Japan GHS Classifica   Australia National Ind M	breviations and acronyms E CONTROLS/PERSONAL WA (time-weighted average) laximum limit value nces and sources for data stances and Disease Registi Protection Agency ChemView by Authority (EFSA) Protection Agency) eline Level(s) (AEGL(s)) Protection Agency Federal Ins Protection Agency High Produ- nal e Database Chemical Information Datab	used in the safety PROTECTION ST * used to compile f ry (ATSDR) Database secticide, Fungicide action Volume Che ase (IUCLID) n and Assessment	y data sheet FEL the SDS e, and Roder emicals	t STEL (Short Term Skin designation	·

National Library of Medicine's ChemID Plus (NLM CIP) National Library of Medicine's PubMed database (NLM PUBMED) National Toxicology Program (NTP) New Zealand's Chemical Classification and Information Database (CCID) Organization for Economic Co-operation and Development Environment, Health, and Safety Publications Organization for Economic Co-operation and Development High Production Volume Chemicals Program Organization for Economic Co-operation and Development Screening Information Data Set RTECS (Registry of Toxic Effects of Chemical Substances) World Health Organization

21-Aug-2020

## **Revision Note**

No information available.

#### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet