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# Safety Data Sheet (SDS) OSHA HazCom Standard 29 CFR 1910.1200(g), Rev. 2012 and GHS Rev 03

SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### Product identifier Product form: Trade name: Product code: Recommended application:

Mixture Duratherm 450 Duratherm 450 Heat Transfer Fluid

Details of the supplier of the safety data sheet Duratherm P.O Box 563, Lewiston, NY, 14092 Telephone: 1-905-984-6677 Qualified person's e-mail address: info@durathermfluids.com

### Emergency telephone number:

Tel.: 1-905-984-6677

## **SECTION 2: Hazards identification**

### Classification of the substance or mixture

Asp. Haz 1 - H304

### Label elements

GHS label element:

Hazard pictograms: Signal word:



Hazard Statements: H304 Precautionary Statements P301/310/331 This product is classified and labeled according to the Globally Harmonized System (GHS) GHS08 Danger

May be fatal if swallowed and enters airways

IF SWALLOWED. Immediately call a POISON CONTROL CENTRE. Do not induce vomiting

### **Classification system**

NFPA Rating: Health: 0, Fire:1, Reactivity:0 HMIS Rating: Health: 0, Fire:1, Reactivity:0

#### Other hazards Other Hazards:

None known

### **SECTION 3: Composition/information on ingredients**

### 3.1 Substance Not applicable

### 3.2 Mixture

Chemical Characterization: Classification according to GHS: Dangerous Components: Mixture GHS08 Hydrocarbon, <22 cSt

Component Name	Identification	Classification according to GHS	%
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			Heat mansier Fluids
Hydrocarbon	CAS #: 8042-47-5	GHS08	55-80%
	CAS #: 64742-47-8	GHS08	20-45%
		Asp. Haz 1 – H304	
Proprietary Additives	Trade Secret	Not classified	5-10%

### **SECTION 4: First aid measures**

Description	of first	aid measures
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Inhalation:	Supply person with fresh air and consult doctor according to symptoms.
Skin contact:	Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.
Eye contact	Remove contact lenses. Wash thoroughly for several minutes using copious water. Seek medical help if necessary.
Ingestion	Rinse the mouth thoroughly with water. Do not induce vomiting. Consult doctor immediately.

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

## **SECTION 5: Firefighting measures**

Suitable extinguishing media: Unsuitable extinguishing media: Water jet spray/foam/CO2/dry extinguisher High volume water jet

#### Special hazards arising from the substance or mixture

In case of fire the following can develop: Oxides of carbon, toxic gases

#### Advice for firefighters

In case of fire and/or explosion do not breathe fume use protective respirator with independent air supply. According to size of fire use full protection, if necessary. Cool container at risk with water. Dispose of contaminated extinction water according to official regulations.

## **SECTION 6: Accidental release measures**

# Personal precautions, protective equipment and emergency procedures

Personal precautions protective equipment: Environmental precautions:

### Not required

If leakage occurs, dam spillage and resolve leaks as soon as possible. Prevent fluid from entering drainage systems. If fluid accidently enters drainage system alert authorities

#### Methods and material for containment and cleaning up

Soak up with absorbent material (e.g. universal binding agent, oil-dry, sand, diatomaceous earth) and dispose in accordance with local regulations

#### Reference to other sections

See section 7 for information on safe handling, see Section 8 for information on personal protection equipment, see Section 13 for disposal information

### **SECTION 7: Handling and storage**

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

Precautions for safe handling: Information about protection against explosions or fires: Requirements to be met by storerooms: General guidelines: No special measures required No special measures required Store in a cool dry place Ensure good ventilation; avoid contact with eyes or skin

### Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable Wash hands before breaks and at end of work Keep away from food, drink and animal feed Remove contaminated clothing and protective equipment before entering areas in which food is consumed Page 3 of 6 Safety data sheet according to GHS Rev 03 Valid from: 01/01/2022 DURATHERM 450



#### **SECTION 8: Exposure controls/personal protection**

### Control parameters

No further data; see Section 7

#### Exposure controls:

Appropriate engineering controls:

**Personal protective equipment:** Hand protection:

Eye protection: Materials for protective clothing: Hand protection:

Respiratory protection:

Environmental exposure controls: Consumer exposure controls: Other: Contain with oil absorbing material (oil dry). Remove oil absorbing material and dispose lawfully

PVC, neoprene, or nitrite gloves. Gloves should be replaced immediately if damaged or worn
Eye protection necessary where liquid could be splashed or sprayed PVC, neoprene, or nitrite gloves
In case of repeated or prolonged contact wear gloves and use moisturizing skin cream
In areas with poor ventilation or in the case of likely misting use appropriate respiratory equipment
See section 12
PVC gloves. Neoprene or nitrile rubber gloves
Wash hands thoroughly after exposure. Do not eat drink or smoke during use. Wash contaminated clothing before use

## **SECTION 9: Physical and chemical properties**

#### Information on basic physical and chemical properties Physical state: Liquid

Physical state: Color: Odor: Odor threshold: pH-value: Melting point/freezing point: Initial boiling point and boiling range: Flash Point ASTM D92 (COC): **Evaporation Rate:** Flammability (solid, gas) Lower explosive limit: Upper explosive limit: Density @ 20°C: Bulk density: Solubilitv(ies): Water solubility: Partition coefficient (n-octanol/water) Auto-ignition temperature: Decomposition temperature: Viscosity: Explosive properties Oxidizing properties:

### Other information

Miscibility: Fat solubility / solvent: Conductivity: Surface tension: Solvents content: Light yellow, clear Characteristic Not determined Not determined Not determined >430°F (>221°C) >290°F (>143°C) NA NA Not determined Not determined 0.83-0.86 g/ml NA Not determined Insoluble Not determined Not determined Not determined 8.25 cSt @ 40°C NA Not determined

Not determined Not determined Not determined Not determined Not applicable

### **SECTION 10: Stability and reactivity**

Reactivity: Chemical Stability: Possibility of hazardous reactions: Conditions to avoid: Stable under normal conditions Stable under normal conditions No dangerous reactions known See section 7 Page 4 of 6 Safety data sheet according to GHS Rev 03 Valid from: 01/01/2022 DURATHERM 450



Heat Transfer Fluids

Incompatible materials: Hazardous decomposition products: Strong oxidizing agents, acids No dangerous decomposition products known

## SECTION 11: Toxicological information

Possibly more information on health effects, see Section 2 (classification).

Acute toxicity:

Not Classified

DURATHERM 450					
Toxicity/effect	Endpoint	Value	Unit	Organism	Notes
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat	
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rat	
Acute toxicity, by inhalation:	LD50	>2500	mg/kg/ 4hr	Rat	

Skin corrosion/irritation:

Serious eye damage/irritation: Respiratory or skin sensitization: Repeated does toxicity: Germ cell mutagenicity: Carcinogenicity: Reproductive toxicity: Other information: Not classified – Unlikely to cause harm to harm to skin with brief contact, long term contact may cause dermatitis Not classified Not classified

### **SECTION 12: Ecological information**

DURATHERM 450					
Toxicity/effect	Endpoint	Value	Unit	Organism	Notes
Toxicity to fish:	LD50	>100,000	mg/kg /96hr	Trout	
Toxicity to daphnia:					n.d.a.
Toxicity to algae:					n.d.a.
Persistence and degradability:					n.d.a.
Bio-accumulative potential:					n.d.a.
Mobility in soil:					n.d.a.
Results of PBT and vPvB assessment:					n.d.a.
Other adverse effects:					n.d.a.

## **SECTION 13: Disposal considerations**

## Waste treatment methods

### For the substance / mixture / residual amounts

Soaked polluted cloths, paper or other organic materials represent a fire hazard and should be controlled, collected and disposed of

### For contaminated packing material

Pay attention to local and national official regulations

Empty container completely.

Uncontaminated packaging can be recycled.

Dispose of packaging that cannot be cleaned in the same manner as the substance.

Do not perforate, cut up or weld un-cleaned container.

## **SECTION 14: Transport information**

Transport statements UN number DOT, ADN, IMDG, IATA: ADR: UN proper shipping name:

Non-regulated material Non-regulated material

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Heat Transfer Fluids

DOT, ADR, ADN, IMDG, IATA: **Transport hazard class(es)** DOT, ADR, ADN, IMDG, IATA: **Packaging Group** DOT, ADR, IMDG, IATA: **Environmental hazards** Marine pollutant: Special precautions for users: Transport in bulk according to Annex II: of MARPOL 73/78and IB Code UN "Model Regulation" Non-regulated material Non-regulated material Non-regulated material No None

Not applicable

# SECTION 15: Regulatory information

 Safety, health and environmental regulations/legislation specific for the substance or mixture

 SARA Hazards:
 No SARA Hazards

 TSCA (Toxic Substances Control Act):
 All chemical substances in this mixture are inc

Proposition 65:

No SARA Hazards All chemical substances in this mixture are included on or are exempted from listing on the TSCA Inventory for Chemical Substances Based on available information this product does not contain any components or chemicals currently known to the State of California to cause cancer, birth defects or reproductive harm at levels which would be subject to Proposition 65

Please note that Section 3 of this document lists only the hazardous components required by the specific country or region hazard communication regulations. The chemical identifiers listed in Section 3 are used globally for hazard communication purposes and may not reflect those used for chemical inventory coverage in a particular country or region. The chemical inventory information given in Section 15 of this document applies to the product as a whole and should be used when evaluating inventory compliance.

### The components of this product are reported in the following inventories:

DSL All components of this product are on the Canadian DSL AICIS On the inventory, or in compliance with the inventory NZIOC On the inventory, or in compliance with the inventory ENCS On the inventory, or in compliance with the inventory KECI On the inventory, or in compliance with the inventory PICCS On the inventory, or in compliance with the inventory IECSC On the inventory, or in compliance with the inventory VCSI On the inventory, or in compliance with the inventory US.TSCA On TSCA Inventory

### Labeling requirements

GHS label elements Hazard pictograms Signal word Non-regulated material Non-regulated material Non-regulated material

#### Labeling requirements GHS label element:

Hazard nictograms:

Hazard pictograms: Signal word This product is classified and labeled according to the Globally Harmonized System GHS08 Danger

### **SECTION 16: Other information**

These details refer to the product as it is delivered.

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge.

Any abbreviations and acronyms used in this document:

ACArticle Categoriesacc., acc. toaccording, according toADRAccord européen relatif au transport international des marchandises Dangereuses par Route

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Article number
Acute Toxicity Estimate according to Regulation (EC) 1272/2008 (CLP)
Biochemical oxygen demand
Chemical Abstracts Service
Coordinating European Council for the Development of Performance Tests for Fuels, Lubricants
Classification, Labeling and Packaging (REGULATION (EC) No 1272/2008 on classification, labeling and packaging of substances and mixtures)
Cosmetic, Toiletry, and Fragrance Association
for example (abbreviation of Latin 'exempli gratia'), for instance
European Community
European Chemicals Agency
European Economic Area
European Economic Community
European Inventory of Existing Commercial Chemical Substances
European List of Notified Chemical Substances
European Norms
United States Environmental Protection Agency (United States of America)
Environmental Release Categories
Exposure scenario
Fax number
general
Globally Harmonized System of Classification and Labelling of Chemicals
Hazardous Material Identification System
International Agency for Research on Cancer
International Air Transport Association
Intermediate Bulk Container
International Bulk Chemical (Code)
Inhibitory concentration
lethal concentration
lethal concentration 50 percent kill
Lethal Dose, 50% kill
not applicable
not available
not checked
no data available
National Fire Protection Association
parts per million
United Nations Recommendations on the Transport of Dangerous Goods
Volatile organic compounds
World Health Organization
wet weight

These statements were made by: Duratherm, P.O Box 563, Lewiston, NY, 14092, Tel.: 1-905-984-6677, info@durathermfluids.com