

# 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: Mixture

Trade name:

Product code:

Recommended application:

Duratherm HTO

Duratherm HTO

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

This substance is not classified according to the Globally Harmonized System (GHS)

Label elements

GHS label elements: Non-regulated material, no labeling elements

Hazard pictograms: Non-regulated material

Signal word: No single word, non-regulated material

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: Mixture
Classification according to GHS: Not classified

Dangerous Components: None, non-regulated material

| Component Name          | Identification  | Classification according to GHS | %      |
|-------------------------|-----------------|---------------------------------|--------|
| Hydrocarbon Base Fluids | CAS#: 8042-47-5 | Not classified                  | 90-95% |
| Proprietary Additives   | Trade Secret    | Not classified                  | 5-10%  |

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

#### Description of first aid measures

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.

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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: Water jet spray/foam/CO2/dry extinguisher

Unsuitable extinguishing media: 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: Not required

Environmental precautions: 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:

No special measures required
No special measures required
Store in a cool dry place

General guidelines: 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

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

# **Control parameters**

No further data; see Section 7

# **Exposure controls:**

Appropriate engineering controls: Contain with oil absorbing material (oil dry). Remove oil absorbing

material and dispose lawfully

Personal protective equipment:

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Hand protection: PVC, neoprene, or nitrite gloves. Gloves should be replaced

immediately if damaged or worn

Eye protection: Eye protection necessary where liquid could be splashed or sprayed

Materials for protective clothing: PVC, neoprene, or nitrite gloves

Hand protection: In case of repeated or prolonged contact wear gloves and use

moisturizing skin cream

Respiratory protection: Normally not required in areas with adequate ventilation. In areas with

poor ventilation or in the case of likely misting use appropriate

respiratory equipment

Environmental exposure controls: See section 12

Consumer exposure controls: PVC gloves. Neoprene or nitrile rubber gloves

Other: 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

Color:

Odor:

Odor:

Odor threshold:

PH-value:

Melting point/freezing point:

Initial boiling point and boiling range:

Flash Point ASTM D92 (COC):

Light yellow, clear

Not determined

Not determined

>570°F (>298°C)

>395°F (>201°C)

Evaporation Rate: NA Flammability (solid, gas) NA

Lower explosive limit:

Upper explosive limit:

Not determined

Not determined

Not determined

0.83-0.86 g/ml

Bulk density: NA

Solubility(ies):
Water solubility:

Not determined
Insoluble

Partition coefficient (n-octanol/water)

Auto-ignition temperature:

Decomposition temperature:

Viscosity:

Not determined

Not determined

Vot determined

Vot cSt @ 40°C

Explosive properties NA

Oxidizing properties: Not determined

#### Other information

Miscibility:

Fat solubility / solvent:

Conductivity:

Surface tension:

Solvents content:

Not determined
Not determined
Not determined
Not applicable

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

Reactivity: Stable under normal conditions Chemical Stability: Stable under normal conditions Possibility of hazardous reactions: No dangerous reactions known

Conditions to avoid: See section 7

Incompatible materials: Strong oxidizing agents, acids

Hazardous decomposition products: No dangerous decomposition products known

#### **SECTION 11: Toxicological information**

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

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Acute toxicity: Not Classified

| DURATHERM HTO                    |          |       |               |          |       |  |
|----------------------------------|----------|-------|---------------|----------|-------|--|
| 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/<br>4hr | Rat      |       |  |

Skin corrosion/irritation: Not classified – Unlikely to cause harm to harm to skin with brief contact, long

term contact may cause dermatitis

Serious eye damage/irritation:
Respiratory or skin sensitization:
Repeated does toxicity:
Not classified
Repeated mutagenicity:
Not classified
Carcinogenicity:
Not classified
Reproductive toxicity:
Not classified
Not classified
Not classified

Other information: No further information available

# **SECTION 12: Ecological information**

| DURATHERM HTO                  |          |          |                |          |        |  |
|--------------------------------|----------|----------|----------------|----------|--------|--|
| Toxicity/effect                | Endpoint | Value    | Unit           | Organism | Notes  |  |
| Toxicity to fish:              | LD50     | >100,000 | mg/kg<br>/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             |          |          |                |          | n.d.a. |  |
| vPvB assessment:               |          |          |                |          |        |  |
| 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:

Non-regulated material

Non-regulated material

**UN proper shipping name:**DOT, ADR, ADN, IMDG, IATA:
Non-regulated material

Transport hazard class(es)

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DOT, ADR, ADN, IMDG, IATA: Non-regulated material

**Packaging Group** 

DOT, ADR, IMDG, IATA: Non-regulated material

**Environmental hazards** 

Marine pollutant: No Special precautions for users: None

Transport in bulk according to Annex II: of MARPOL 73/78and IB Code UN

"Model Regulation" 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 included on or are

exempted from listing on the TSCA Inventory for Chemical

Substances

Proposition 65 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

Labeling requirements

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

#### **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:

Article Categories AC acc., acc. to according, according to

**ADR** Accord européen relatif au transport international des marchandises Dangereuses par Route

Art., Art. no. Article number

Acute Toxicity Estimate according to Regulation (EC) 1272/2008 (CLP) ATE

Biochemical oxygen demand BOD Chemical Abstracts Service CAS

CEC Coordinating European Council for the Development of Performance Tests for Fuels, Lubricants CLP

Classification, Labeling and Packaging (REGULATION (EC) No 1272/2008 on classification,

labeling and packaging of substances and mixtures)

Cosmetic, Toiletry, and Fragrance Association **CTFA** 

for example (abbreviation of Latin 'exempli gratia'), for instance e.g.

**European Community** EC **European Chemicals Agency ECHA** European Economic Area EEA **EEC European Economic Community** 

**EINECS** European Inventory of Existing Commercial Chemical Substances

**ELINCS** European List of Notified Chemical Substances

ΕN **European Norms** 

**EPA** United States Environmental Protection Agency (United States of America)

**ERC Environmental Release Categories** 

ES Exposure scenario Fax number Fax. gen. general

GHS Globally Harmonized System of Classification and Labelling of Chemicals

**HMIS** Hazardous Material Identification System **IARC** International Agency for Research on Cancer Page 6 of 6 Safety data sheet according to GHS Rev 03 Valid from: 01/01/2022

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IATA International Air Transport Association

IBC Intermediate Bulk Container
IBC (Code) International Bulk Chemical (Code)

IC Inhibitory concentration LC lethal concentration

LC50 lethal concentration 50 percent kill

LD50 Lethal Dose, 50% kill n.a. not applicable n.av. not available n.c. not checked n.d.a. no data available

NFPA National Fire Protection Association

ppm parts per million

UN RTDG United Nations Recommendations on the Transport of Dangerous Goods

VOC Volatile organic compounds WHO World Health Organization

wwt wet weight

These statements were made by:

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