Page 1 of 6 Safety data sheet according to Canadian Hazardous Products Regulations (WHMIS 2015) Date created: 04/20/2021 Valid from: 04/20/2021 DURATHERM S



Safety Data Sheet (SDS)

GHS Products Regulations (WHMIS 2015) Classification in accordance with the Canadian **SECTION 1: Identification of the substance/mixture and of the company/undertaking**

Product identifier

Product form:MixtureTrade name:Duratherm SProduct code:Duratherm SRecommended application:Heat Transfer Fluid

Details of the supplier of the safety data sheet

Duratherm 229 Welland Avenue, St. Catharines, ON L2R 2P4 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 elementsHazard pictograms:Non-regulated materialSignal word:No single word, non-regulated materialOther hazardsNone known

SECTION 3: Composition/information on ingredients

3.1 Substance

Not applicable

3.2 Mixture

Chemical Characterization: Classification according to GHS: Dangerous Components: Mixture Not classified None, non-regulated material

| Component Name | Identification | Classification according to GHS | % |
|-----------------------|-------------------|------------------------------------|--------|
| Siloxane | CAS #: 63148-62-9 | Not classified | 95-99% |
| Proprietary Additives | Trade Secret | Not classified | 1-5% |

SECTION 4: First aid measures

Description of first aid measures

Supply person with fresh air and consult doctor according to symptoms.

Inhalation:

Page 2 of 6 Safety data sheet according to Canadian Hazardous Products Regulations (WHMIS 2015) Date created: 04/20/2021 Valid from: 04/20/2021 DURATHERM S



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 contactRemove contact lenses. Wash thoroughly for several minutes using copious water. Seek
medical help if necessary.IngestionRinse 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 proceduresPersonal precautions protective equipment:Not requiredEnvironmental precautions:If leakage occurs, dam

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

SECTION 8: Exposure controls/personal protection

Control parameters No further data; see Section 7 Page 3 of 6 Safety data sheet according to Canadian Hazardous Products Regulations (WHMIS 2015) Date created: 04/20/2021 Valid from: 04/20/2021 DURATHERM S



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
Normally not required in areas with adequate ventilation. 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: Solubility(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 >400°F (>204°C) >600°F (>315°C) NA NA Not determined Not determined 0.90-0.99 g/ml NA Not determined Insoluble Not determined Not determined Not determined 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 Canadian Hazardous Products Regulations (WHMIS 2015) Date created: 04/20/2021 Valid from: 04/20/2021 DURATHERM S



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 S | | | | | |
|----------------------------------|----------|-------|---------------|----------|-------|
| 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 S | | | | | |
|-------------------------------------|----------|----------|----------------|----------|--------|
| 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.

Page 5 of 6 Safety data sheet according to Canadian Hazardous Products Regulations (WHMIS 2015) Date created: 04/20/2021 Valid from: 04/20/2021 DURATHERM S



| SECTION 14: Transport information Transport statements UN number Non-regulated material DOT, ADN, IMDG, IATA: Non-regulated material ADR: Non-regulated material UN proper shipping name: Non-regulated material DOT, ADR, ADN, IMDG, IATA: Non-regulated material Transport hazard class(es) Non-regulated material DOT, ADR, ADN, IMDG, IATA: Non-regulated material Packaging Group Non-regulated material |
|---|
| DOT, ADN, IMDG, IATA: Non-regulated material ADR: Non-regulated material UN proper shipping name: DOT, ADR, ADN, IMDG, IATA: DOT, ADR, ADN, IMDG, IATA: Non-regulated material Transport hazard class(es) DOT, ADR, ADN, IMDG, IATA: DOT, ADR, ADN, IMDG, IATA: Non-regulated material Packaging Group Non-regulated material |
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| DOT, ADR, ADN, IMDG, IATA: Non-regulated material Packaging Group |
| 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 |
| Canadian substance listings |
| Canadian Domestic Substances List (DSL) None of the ingredients are listed |
| |
| Canadian Ingredient Disclosure list (limit 0.1%) None of the ingredients are listed |
| |
| Canadian Ingredient Disclosure list (limit 1%) None of the ingredients are listed |

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: | | | |
|---|--|--|--|
| AC | Article Categories | | |
| acc., acc. to | according, according to | | |
| ADR | Accord européen relatif au transport international des marchandises Dangereuses par Route | | |
| Art., Art. no. | Article number | | |
| ATE | Acute Toxicity Estimate according to Regulation (EC) 1272/2008 (CLP) | | |
| BOD | Biochemical oxygen demand | | |
| CAS | Chemical Abstracts Service | | |
| CEC | Coordinating European Council for the Development of Performance Tests for Fuels, Lubricants | | |

Page 6 of 6 Safety data sheet according to Canadian Hazardous Products Regulations (WHMIS 2015) Date created: 04/20/2021 Valid from: 04/20/2021 DURATHERM S



| CLP | Classification, Labeling and Packaging (REGULATION (EC) No 1272/2008 on classification, labeling and packaging of substances and mixtures) |
|------------|--|
| CTFA | Cosmetic, Toiletry, and Fragrance Association |
| e.g. | for example (abbreviation of Latin 'exempli gratia'), for instance |
| EČ | European Community |
| ECHA | European Chemicals Agency |
| EEA | European Economic Area |
| EEC | European Economic Community |
| EINECS | European Inventory of Existing Commercial Chemical Substances |
| ELINCS | European List of Notified Chemical Substances |
| EN | European Norms |
| EPA | United States Environmental Protection Agency (United States of America) |
| ERC | Environmental Release Categories |
| ES | Exposure scenario |
| Fax. | Fax number |
| gen. | general |
| GHS | Globally Harmonized System of Classification and Labelling of Chemicals |
| HMIS | Hazardous Material Identification System |
| IARC | International Agency for Research on Cancer |
| 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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