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<br/>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<br/>medical help if necessary.IngestionRinse the mouth thoroughly with water. Do not induce vomiting. Consult doctor<br/>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

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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**

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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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Transport hazard class(es)         DOT, ADR, ADN, IMDG, IATA:         Non-regulated material         Packaging Group
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:

Duratherm, 229 Welland Avenue, St. Catharines, ON L2R 2P4, Tel.: 1-905-984-6677, info@durathermfluids.com