(WHMIS 2015) Valid from: 01/01/2022 DURATHERM HF-FG



# Safety Data Sheet (SDS)

GHS Classification in accordance with the Canadian Hazardous Products Regulations (WHMIS 2015)

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

**Product identifier** 

Product form: Mixture

Trade name: Duratherm HF-FG
Product code: Duratherm HF-FG

Recommended application: Food-Grade 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 elements

Hazard pictograms: Non-regulated material

Signal word: No single word, non-regulated material

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	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.

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:

No special measures required

No special measures required

No special measures required

Store is a seal drupless.

Requirements to be met by storerooms: 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

Not determined

>570°F (>298°C)

>500°F (>260°C)

Evaporation Rate: NA Flammability (solid, gas) NA

Lower explosive limit:

Upper explosive limit:

Density @ 20°C:

Not determined
0.85-0.88 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

Not determined

103 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).



Acute toxicity: Not Classified

DURATHERM HF-FG							
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: Not classified – Unlikely to cause harm to skin with brief contact, long

term contact may cause dermatitis

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

Other information: No further information available

## **SECTION 12: Ecological information**

DURATHERM HF-FG						
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					n.d.a.	
degradability:						
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:

ADR:

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

Hazard pictograms

Non-regulated material
Non-regulated material
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 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

EC 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

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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

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 applicablen.av.not availablen.c.not checkedn.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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