



## 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: Duratherm HTO FG  
Product code: Duratherm HTO FG  
Recommended application: 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.

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 accidentally 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: No special measures required  
Information about protection against explosions or fires: No special measures required  
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:**

Hand protection:	PVC, neoprene, or nitrile 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 nitrile 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:	Light yellow, clear
Odor:	Characteristic
Odor threshold:	Not determined
pH-value:	Not determined
Melting point/freezing point:	Not determined
Initial boiling point and boiling range:	>570°F (>298°C)
Flash Point ASTM D92 (COC):	>395°F (>201°C)
Evaporation Rate:	NA
Flammability (solid, gas)	NA
Lower explosive limit:	Not determined
Upper explosive limit:	Not determined
Density @ 20°C:	0.83-0.86 g/ml
Bulk density:	NA
Solubility(ies):	Not determined
Water solubility:	Insoluble
Partition coefficient (n-octanol/water)	Not determined
Auto-ignition temperature:	Not determined
Decomposition temperature:	Not determined
Viscosity:	41 cSt @ 40°C
Explosive properties	NA
Oxidizing properties:	Not determined

### Other information

Miscibility:	Not determined
Fat solubility / solvent:	Not determined
Conductivity:	Not determined
Surface tension:	Not determined
Solvents content:	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 HTO 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: Not classified  
 Respiratory or skin sensitization: Not classified  
 Repeated dose toxicity: Not classified  
 Germ cell mutagenicity: Not classified  
 Carcinogenicity: Not classified  
 Reproductive toxicity: Not classified  
 Other information: No further information available

## SECTION 12: Ecological information

DURATHERM HTO 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 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:

Non-regulated material

ADR:

Non-regulated material

#### UN proper shipping name:

DOT, ADR, ADN, IMDG, IATA:

Non-regulated material

#### Transport hazard class(es)

DOT, ADR, ADN, IMDG, IATA:	Non-regulated material
<b>Packaging Group</b>	
DOT, ADR, IMDG, IATA:	Non-regulated material
<b>Environmental hazards</b>	
Marine pollutant:	No
Special precautions for users:	None
Transport in bulk according to Annex II: of MARPOL 73/78 and 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:

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
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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