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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

1.1 Product identifier

Product form: Mixture

Trade name: Duratherm XLT-50
Product code: Duratherm XLT-50
Recommended application: Heat Transfer Fluid

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses of the substance or mixture:

Heat Transfer Fluid Uses advised against:

No information available at present

1.3 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

1.4 Emergency telephone number:

Tel.: CHEMTREC (Inside USA) 800-424-9300 (Outside USA) +1-703-527-3887

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Combustible Liquids 4 - H227, Asp. Haz. 1 - H304, Skin Irrit. 2 - H315, Skin Sens. 1 - H317, Agu. Chron. 1: H410

2.2 Label elements

Labeling according to Regulation (EC) No 1272/2008 [CLP/GHS]

Product Identifier:

Hazard components for labeling: Terpene – CAS# 5989-27-5 Hazard pictograms: GHS02, GHS07, GHS08, GHS09









Signal word: Danger

Hazard statements

H227 Combustible liquid

H304 May be fatal if swallowed and enters airways

H315 Causes skin irritation

H317 May cause an allergic skin reaction

H410 Very toxic to aquatic life with long lasting effects

Precautionary Statements

P210 Keep away from heat, sparks, open flames, and hot surfaces. No smoking.

P273 Avoid release to the environment

P280 Wear protective gloves

P301/310/331 IF SWALLOWED. Immediately call a POISON CONTROL CENTRE. Do not induce vomiting

P302/P352 IF ON SKIN: Wash with plenty of water.
P337/P313 If eye irritation persists seek medical attention.

P501 Dispose of contents and their containers in accordance with regional, national and international

regulations.

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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: GHS02, GHS07, GHS08, GHS09 Dangerous Components: GHS02, GHS07, GHS08, GHS09 Terpene CAS#: 5989-27-5

Component Name	Identification	Classification according to GHS	%	
Hydrocarbon Base Fluids	CAS #: 8042-47-5	Not classified	35-55%	
Terpene	CAS #: 5989-27-5	GHS02, GHS07, GHS08, GHS09 Comb Liq 4 – H227	35-55%	
		Asp. Haz 1 – H304		
		Skin Irrit 2 – H315		
		Skin Sens 1 – H317		
		Aqu. Chron. 1: H410		
Proprietary Additives	Trade Secret	Not classified	5-10%	

SECTION 4: First aid measures

4.1 Description of first aid measures

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

Following 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.

Following Eye contact: Remove contact lenses and wash thoroughly for several minutes using copious amounts

of water. Seek medical help if necessary.

Following Ingestion: Rinse the mouth thoroughly with water. Do not induce vomiting. Consult doctor

immediately.

Self- Protection of the First Aider: When giving first aid follow standard first aid protocol.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation

May be harmful by inhalation if exposure to vapor, mists or fumes resulting from thermal decomposition of the product **Symptoms/injuries after skin contact**

Unlikely to cause harm to skin on brief or occasional contact, but prolonged or repeated exposure may lead to dermatitis.

Symptoms/injuries after eye contact

Unlikely to cause more than transient stinking or redness if accidental eye contact occurs

Symptoms/injuries after ingestion

Unlikely to cause harm if accidently swallowed in small doses, though larger quantities may cause nausea and diarrhea

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically

SECTION 5: Firefighting measures

5.1 Extinguishing Media

Suitable extinguishing media: Water jet spray/foam/CO2/dry extinguisher

Unsuitable extinguishing media: High volume water jet

5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop: Oxides of carbon, toxic gases



5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fume use protective respirator with independent air supply. According to the size of the 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

6.1 Personal precautions, protective equipment and emergency procedures

Non-emergency personnel:

Ensure sufficient supply of air Avoid contact with eyes or skin

Emergency responders

Wear safety glasses, goggles or face shield

6.2 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 systems alert authorities.

6.3 Methods and material for containment and cleaning up

For Containment: Contain spill by berm usage and blocking flow with absorbent material.

For clean up: Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth) and dispose of according to Section 13.

6.4 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

7.1 Precautions for safe handling

Protective Measures:

Precautions for safe handling:

Information about protection against explosions or fires:

Aerosol and dust generation preventions:

Environmental precautions:

Avoid contact with eyes or skin. Do not breathe vapors or mists Take measure to prevent the buildup of electrostatic discharge

Not applicable

Prevent from entering drainage systems

Advice on general occupational hygiene

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

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

Packaging Materials: Store product closed and only in original packaging

Requirements for storage rooms and vessels: Store in a well-ventilated, cool and dry place

Hints on storage assembly

Storage Class: No data available

Materials to avoid: Do not store in plastic containers for extended periods.

7.3 Specific end use(s)

No information available at present.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits: D-Limonene 20 ppm ACGIH; 50 ppm OSHA

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8.2 Exposure controls:

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

material and dispose lawfully

8.2.2 Personal protective equipment:

Eye protection:

Suitable eye protection Eye protection necessary where liquid could be splashed or sprayed

Skin Protection:

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

moisturizing skin cream

Body Protection: PVC, neoprene, or nitrite gloves

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

Thermal Hazards: No thermal hazards

8.2.3 Environmental exposure controls: See section 6

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

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state: Liquid

Color:

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

Not determined

>150°F (>84°C)

Evaporation Rate: NA Flammability (solid, gas) NA

Lower explosive limit:

Upper explosive limit:

Density @ 20°C:

Not determined
0.85-0.87 g/ml

Bulk density: NA

Solubility(ies):
Water solubility:
Partition coefficient (n-octanol/water)
Not determined
Not determined

Auto-ignition temperature:

Decomposition temperature:

Viscosity:

Not determined

Not determined

Not determined

Not determined

Not determined

1.5 cSt @ 40°C

Explosive properties NA

Oxidizing properties: Not determined

9.2 Other information

Miscibility:

Fat solubility / solvent:

Conductivity:

Surface tension:

Solvents content:

Not determined
Not determined
Not determined
Not applicable

Physical Hazards:

Not applicable

SECTION 10: Stability and reactivity

10.1 Reactivity: Stable under normal conditions

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10.2 Chemical Stability: Stable under normal conditions

10.3 Possibility of hazardous reactions: See section 2

10.4 Conditions to avoid:See section 7. Avoid contact with strong oxidizing agents

10.5 Incompatible materials: Strong oxidizing agents, acids

10.6 Hazardous decomposition products: See section 5.2 no decomposition when used as directed

SECTION 11: Toxicological information

11.1 Information on toxicological effects

11.1.1 **Substances**: Not applicable

11.1.2 **Mixtures**:

Acute oral toxicity:

Acute inhalation toxicity:

Acute dermal toxicity:

D-Limonene: LD50 rat: 4,400 mg/kg

D-Limonene: LD50 rat: No available data

D-Limonene: LD50 rabbit: > 5,000 mg/kg

Irritation: Not classified – Unlikely to cause harm to harm to skin with brief contact, long term contact

may cause dermatitis

Corrosivity: Not classified

Eye damage/irritation Liquid in the eyes can be irritating, causing tearing and redness.

Sensitization: May cause slight redness. Prolonged or repeated contact may cause drying of the skin.

Repeated dose toxicity:

Mutagenicity:

Carcinogenicity:

Reproductive toxicity:

Not classified

Not classified

Not classified

Not classified

Other information: No further information available

SECTION 12: Ecological information

DURATHERM XLT-50						
12.1 Toxicity/effect	Endpoint	Value	Unit	Organism	Notes	
Toxicity to fish:	LC50	>0.1 -1	mg/L	Trout		
Toxicity to daphnia:					n.d.a.	
Toxicity to algae:					n.d.a.	
12.2 Persistence and degradability:					n.d.a.	
12.3 Bio-accumulative potential:					n.d.a.	
12.4 Mobility in soil:					n.d.a.	
12.5 Results of PBT and vPvB assessment:					n.d.a.	
12.6 Other adverse effects:					n.d.a.	

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product/Packaging disposal:

Soaked polluted cloths, paper or other organic materials represent a fire hazard and should be controlled, collected and disposed of.

Waste Codes/ waste designations according to EWC / AVV:

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

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Waste treatment options: See section 6.2

Other disposal recommendations:

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

14.1 UN number

US DOT/ADR/RID/AND(R)/IATA/ICAO: UN1993 (primary), UN2319 (alternative), UN1169, UN3082

14.2 UN proper shipping name:

DOT, ADR, ADN, IMDG, IATA: Combustible fluid, Environmentally hazardous substance, liquid

14.3 Transport hazard class(es)

DOT, ADR, ADN, IMDG, IATA: Class 3 Combustible Liquid, Class 9 Environmental Hazard

14.4 Packing Group

DOT, ADR, IMDG, IATA: PG III

14.5 Environmental hazards

Marine Pollutant: Yes

14.6 Special precautions for user: EMS Number: F-A, S-F

14.7 Transport in bulk according to Annex II of MARPOL and IB Code UN Model Regulation

Limited Quantity: Product can ship as Limited Quantity by road in 4 x 1 gallon package format.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1 EU regulations

SARA Hazards No SARA Hazards

TSCA (Toxic Substances Control Act): Terpene – CAS# 5989-27-5

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

SECTION 16: Other information

16.1 Indication of changes SDS revision date 2017 06 20

16.2 Abbreviations and acronyms

Any abbreviations and acronyms used in this document:

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

ADR Accord européan 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

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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 W.H.O World Health Organization

wwt wet weight

16.3 Further Information

Classification system

NFPA Rating: Health: 1, Fire: 2, Reactivity: 0 HMIS Rating: Health: 1, Fire: 2, Reactivity: 0

These statements were made by:

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