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 XLT-120
Product code: Duratherm XLT-120
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

Label elements
GHS label element: This product is classified and labeled according to the Globally Harmonized System
Hazard pictograms: GHS02, GHS09, GHS07, GHS08
Signal word: Warning

Product Identifiers
Terpene – CAS# 5989-27-5

Hazard statements
H226 Flammable liquid and vapor
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
P332/P313 If eye irritations persists seek medical attention
P501 Dispose of contents and their containers in accordance with regional, national and international regulations

Classification system
NFPA Rating: Health: 1, Fire:2, Reactivity:0
HMIS Rating: Health: 1, Fire: 2, 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: GHS02, GHS07, GHS08, GHS09
Dangerous Components: Terpene

<table>
<thead>
<tr>
<th>Component Name</th>
<th>Identification</th>
<th>Classification according to GHS</th>
<th>%</th>
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</thead>
<tbody>
<tr>
<td>Terpene</td>
<td>CAS #: 5989-27-5</td>
<td>GHS02, GHS07, GHS08, GHS09</td>
<td>90-95%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Flam Liq 3 – H226</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Asp. Haz 1 – H304</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Skin Irrit 2 – H315</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Skin Sens 1 – H317</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Aqu. Chron. 1: H410</td>
<td></td>
</tr>
<tr>
<td>Proprietary Additives</td>
<td>Trade Secret</td>
<td>Not classified</td>
<td>5-10%</td>
</tr>
</tbody>
</table>

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: 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: Contain with oil absorbing material (oil dry). Remove oil absorbing material and dispose lawfully
Appropriate engineering controls: 
Personal protective equipment: 
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: 
Hand protection: PVC, neoprene, or nitrite gloves
Respiratory protection: 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

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: Not determined
Flash Point ASTM D92 (COC): >105°F (>40°C)
Evaporation Rate: NA
Flammability (solid, gas): NA
Lower explosive limit: Not determined
Upper explosive limit: Not determined
Density @ 20°C: 0.85-0.87 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: 0.9 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

<table>
<thead>
<tr>
<th>Toxicity/effect</th>
<th>Endpoint</th>
<th>Value</th>
<th>Unit</th>
<th>Organism</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity, by oral route</td>
<td>LD50</td>
<td>&gt;3000</td>
<td>mg/kg</td>
<td>Rat</td>
<td></td>
</tr>
</tbody>
</table>

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 does 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

<table>
<thead>
<tr>
<th>Toxicity/effect</th>
<th>Endpoint</th>
<th>Value</th>
<th>Unit</th>
<th>Organism</th>
<th>Notes</th>
</tr>
</thead>
</table>

DURATHERM XLT-120
Safety data sheet according to GHS Rev 03
Revised on / Version: 04/12/2019
Replaces revision of / Version: 06/01/2018
Valid from: 04/12/2019
DURATHERM XLT-120

<table>
<thead>
<tr>
<th>Toxicity to fish:</th>
<th>LC50</th>
<th>&gt;0.1 -1 mg/L</th>
<th>Trout</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toxicity to daphnia:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Toxicity to algae:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Persistence and degradability:</td>
<td></td>
<td></td>
<td>n.d.a.</td>
</tr>
<tr>
<td>Mobility in soil:</td>
<td></td>
<td></td>
<td>n.d.a.</td>
</tr>
<tr>
<td>Results of PBT and vPvB assessment:</td>
<td></td>
<td></td>
<td>n.d.a.</td>
</tr>
<tr>
<td>Other adverse effects:</td>
<td></td>
<td></td>
<td>n.d.a.</td>
</tr>
</tbody>
</table>

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
US DOT/ADR/RID/AND(R)/IATA/ICAO: UN2319 (primary), UN1169 (alternate), UN1993
UN proper shipping name: DOT, ADR, ADN, IMDG, IATA: UN2319 (primary), UN1169 (alternate), UN1993
Transport hazard class(es)
DOT, ADR, ADN, IMDG, IATA: 3 – Flammable Liquid, Symbol fish and trees
Label/Placard
US DOT only: Exception §173.150(f) applies
Packaging Group
DOT, ADR, IMDG, IATA: III
Environmental hazards
Special precautions for users: EMS Number: F-E, S-E
Transport in bulk according to Annex II: of MARPOL 73/78 and IB Code UN
“Model Regulation” Product contains environmentally hazardous substances – Terpene/hydrocarbon mixture

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):
Terpene – CAS# 5899-27-5
All other 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 element: This product is classified and labeled according to the Globally Harmonized System
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
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:
Duratherm, P.O Box 563, Lewiston, NY, 14092, Tel.: 1-905-984-6677, info@durathermfluids.com