Safety data sheet according to GHS Rev 07

Valid from: 01/01/2022 DURATHERM LT



# Safety Data Sheet (SDS)

In accordance with the Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice (Safe Work Australia, 2011) and GHS Rev (07)

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

**Product identifier** 

Product form: Mixture
Trade name: Duratherm LT
Product code: Duratherm LT
Recommended application: Heat Transfer Fluid

## Importer/Supplier of the safety data sheet

Heat Systems Group Pty Ltd 45 Merri Concourse

Campbellfield, Victoria, 3061

Australia

T: +61 3 9357 7393

E: info@heatsystems.com.au W: www.heatsystems.com.au

Emergency telephone number: +61 423 505 938 (Australia only)

# **SECTION 2: Hazards identification**

#### Classification of the substance or mixture

Asp. Haz 1 - H304

Label elements

GHS label element: This product is classified and labeled according to the Globally Harmonized

System (GHS)

Hazard pictograms: GHS08
Signal word: Danger



**Hazard Statements:** 

H304 May be fatal if swallowed and enters airways

**Precautionary Statements** 

Response: IF SWALLOWED. Immediately call a POISON CONTROL CENTRE. Do not

induce vomiting.

Storage: Store locked up.

Disposal: Dispose of contents/container in accordance with applicable regional, national

and local laws and regulations.

## **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: Hydrocarbon, <22 cSt

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Component Name	Identification	Classification according to	%
•		GHS	
Polyalphaolefin	CAS #: 68037-01-4	Not classified	30-60
Hydrocarbon	CAS#: 8042-47-5	GHS08	30-60
		Asp. Haz 1 – H304	
Proprietary Additives	Trade Secret	Not classified	<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:
Requirements to be met by storerooms:

No special measures required
No special measures required
Store in a cool dry place

General guidelines: Ensure good ventilation; avoid contact with eyes or skin

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### 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**

Source	Material	TWA (mg/m³)	
Australia Exposure Standards	Hydrocarbon, 8042-47-5	5	

**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 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: wIn 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

Characteristic

Not determined

Not determined

>550°F (>287°C)

>320°F (>160°C)

Evaporation Rate: NA Flammability (solid, gas) NA

Lower explosive limit:

Upper explosive limit:

Density @ 20°C:

Not determined
Not determined
0.82-0.84 g/ml

Bulk density: NA

Solubility(ies):
Water solubility:
Insoluble
Partition coefficient (n-octanol/water)
Auto-ignition temperature:
Decomposition temperature:
Viscosity:

Not determined
Not determined
Not determined
Viscosity:
10 cSt @ 40°C

Explosive properties NA

Oxidizing properties: Not determined

### Other information

Miscibility: Not determined

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Fat solubility / solvent:

Conductivity:

Surface tension:

Solvents content:

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 LT					
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 harm to skin with brief contact, long

term contact may cause dermatitis

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

Other information: No further information available

# **SECTION 12: Ecological information**

DURATHERM LT					
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

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#### 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

HAZCHEM: None (ADG6)

**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

**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

Poisons Standard (SUSDP) No Poisons Schedule number allocated

Please note that Section 3 of this document lists only the hazardous components required by the specific country or region hazard communication regulations. The chemical identifiers listed in Section 3 are used globally for hazard communication purposes and may not reflect those used for chemical inventory coverage in a particular country or region. The chemical inventory information given in Section 15 of this document applies to the product as a whole and should be used when evaluating inventory compliance.

# The components of this product are reported in the following inventories:

AICIS On the inventory, or in compliance with the inventory

DSL All components of this product are on the Canadian DSL

**NZIoC** On the inventory, or in compliance with the inventory

ENCS On the inventory, or in compliance with the inventory

**KECI** On the inventory, or in compliance with the inventory **PICCS** On the inventory, or in compliance with the inventory

**IECSC** On the inventory, or in compliance with the inventory

TCSI On the inventory, or in compliance with the inventory

**US.TSCA** On TSCA Inventory

Labeling requirements

GHS label element: This product is classified and labeled according to the Globally

Harmonized System

Hazard pictograms: GHS08 Signal word Danger Safety data sheet according to GHS Rev 07

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# **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

Accord européen relatif au transport international des marchandises Dangereuses par Route ADR

Art., Art. no. Article number

ATE Acute Toxicity Estimate according to Regulation (EC) 1272/2008 (CLP)

BOD Biochemical oxygen demand Chemical Abstracts Service CAS

Coordinating European Council for the Development of Performance Tests for Fuels, Lubricants CEC 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

for example (abbreviation of Latin 'exempli gratia'), for instance e.g.

**European Community** EC **European Chemicals Agency ECHA** European Economic Area EEA **European Economic Community EEC** 

European Inventory of Existing Commercial Chemical Substances **EINECS** 

**ELINCS** European List of Notified Chemical Substances

European Norms ΕN

**EPA** United States Environmental Protection Agency (United States of America)

**ERC Environmental Release Categories** 

ES Exposure scenario Fax. Fax number general aen.

Globally Harmonized System of Classification and Labelling of Chemicals **GHS** 

Hazardous Material Identification System **HMIS** International Agency for Research on Cancer **IARC** International Air Transport Association IATA

IBC Intermediate Bulk Container

International Bulk Chemical (Code) IBC (Code)

IC Inhibitory concentration LC lethal concentration

LC50 lethal concentration 50 percent kill

Lethal Dose, 50% kill LD50 not applicable n.a. not available n.av. not checked n.c. no data available n.d.a.

National Fire Protection Association **NFPA** 

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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