

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 FG
Product code: Duratherm FG
Recommended application: Heat Transfer Fluid

Importer/Supplier of the safety data sheet

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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 signal word, non-regulated material

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	>60
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 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

Source	Material	TWA (mg/m ³)
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 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:

Hand protection:

Respiratory protection:

Environmental exposure controls:

Consumer exposure controls:

Other:

PVC, neoprene, or nitrile gloves

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

See section 12

PVC gloves. Neoprene or nitrile rubber gloves

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:	>620°F (>326°C)
Flash Point ASTM D92 (COC):	>430°F (>211°C)
Evaporation Rate:	NA
Flammability (solid, gas)	NA
Lower explosive limit:	Not determined
Upper explosive limit:	Not determined
Density @ 20°C:	0.85-0.88 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:	40 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 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 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.

Untamminated 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 73/78 and IB Code UN "Model Regulation"	Not applicable

SECTION 15: Regulatory information

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

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 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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