



## 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 G  
Product code: Duratherm G  
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

HMS Rating: Health: 0, Fire:1, Reactivity:0

#### Other hazards

Other Hazards: None known

### SECTION 3: Composition/information on ingredients

#### 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 | %      |
|-----------------------|-------------------|---------------------------------|--------|
| Polyalkylene Glycol   | CAS #: 9003-13-8  | Not classified                  | 30-60% |
| Ester                 | CAS #: 26761-40-0 | Not classified                  | 10-30% |
| Hydrocarbon           | CAS#: 64742-54-7  | Not classified                  | 5-35%  |
| Proprietary Additives | Trade Secret      | Not classified                  | 1-5%   |



## 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.<br>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: | >550°F (>287°C)     |
| Flash Point ASTM D92 (COC):              | >470°F (>243°C)     |
| Evaporation Rate:                        | NA                  |
| Flammability (solid, gas)                | NA                  |
| Lower explosive limit:                   | Not determined      |
| Upper explosive limit:                   | Not determined      |
| Density @ 20°C:                          | 0.91-0.93 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:                               | 38 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 G                      |          |       |               |          |       |
|----------------------------------|----------|-------|---------------|----------|-------|
| 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/<br>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 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

| DURATHERM G                         |          |          |                |          |        |
|-------------------------------------|----------|----------|----------------|----------|--------|
| Toxicity/effect                     | Endpoint | Value    | Unit           | Organism | Notes  |
| Toxicity to fish:                   | LD50     | >100,000 | mg/kg<br>/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.

Untamated 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

#### 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

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

### US State Regulations

**California Prop 65 WARNING:** This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Di-isodecyl - CAS # 26761-40-0

**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:

**DSL** All components of this product are on the Canadian DSL

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

**NZIoC** Not 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:  
Duratherm, P.O Box 563, Lewiston, NY, 14092, Tel.: 1-905-984-6677, info@durathermfluids.com