

DURATHERM G-WS



## Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g), Rev. 2012 and GHS Rev 08

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

Product : Specialty Mixture  
Product Name: Duratherm G-WS  
Product Code: Duratherm G-WS  
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

**Hazard classification** Skin sensitization – Category 1. Specific target organ toxicity – repeated exposure – Category 2.

#### Label elements

GHS label elements:



Signal word: **WARNING**

**Hazard Statements:** May cause an allergic skin reaction. May cause damage to organs (Blood) through prolonged or repeated exposure.

#### Precautionary Statements:

Prevention: Do not breathe mist or vapours. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves.

Response: IF ON SKIN: Wash with plenty of soap and water. Get medical advice or attention if you feel unwell. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

Disposal: Dispose of contents and/or container to an approved waste disposal facility.

### SECTION 3: Composition/information on ingredients

#### Synonyms :

This product is a mixture.

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**DURATHERM**  
Heat Transfer Fluids  
**Range % by wt.**

<b><u>Component</u></b>	<b><u>CAS#</u></b>	
Polyalkylene Glycol	9038-95-3	>95%
N-phenyl-alpha-naphthylamine	90-30-2	1% - 5%

#### SECTION 4: First aid measures

**Eye contact:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. If irritation persists, consult a physician, preferably an ophthalmologist.

**Skin contact:** Remove material from skin immediately by washing with soap and plenty of water. Remove contaminated clothing and shoes while washing. Seek medical attention if irritation or rash occurs. Wash clothing before reuse. Discard items which cannot be decontaminated, including leather articles such as shoes, belts and watchbands. Suitable emergency safety shower facility should be immediately available.

**Inhalation:** Remove person to fresh air and keep comfortable for breathing. Consult a physician.

**Ingestion:** Rinse mouth with water. No emergency medical treatment necessary.

**Symptoms/effects:** May cause an allergic skin reaction. May cause damage to organs through prolonged or repeated exposure.

**Special treatment:** If burn is present, treat as any thermal burn, after decontamination. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

#### SECTION 5: Firefighting measures

**Suitable extinguishing media:** Use dry chemical, carbon dioxide, foam, steam, or water fog to extinguish.

**Unsuitable extinguishing media:** Water jet.

**Special hazards:** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

**Hazardous combustion products:** Incomplete combustion results in oxides of carbon.

**Fire Fighting Equipment:** Fight fire with normal precautions from a reasonable distance.

#### SECTION 6: Accidental release measures

**Personal precautions:** Ventilate area of leak or spill. Wear suitable protective clothing and gloves.

**Environmental precautions:** Avoid release to the environment.

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**Methods and materials for cleanup:** Collect spillage.



## SECTION 7: Handling and storage

**Precautions for safe handling:** Avoid prolonged or repeated contact with skin. Avoid breathing mist. Use with adequate ventilation. Keep container closed. Do not use sodium nitrite or other nitrosating agents in formulations containing this product. Suspected cancer-causing nitrosamines could be formed. Wash thoroughly after handling.

**Conditions for safe storage:** Store in a well-ventilated place. Keep cool.

**Shelf Life:** 24 Months

## SECTION 8: Exposure controls/personal protection

**Exposure limits:** None

**Engineering controls:** None

**Protective Equipment:** Wear protective gloves/protective clothing/eye protection/face protection.

## SECTION 9: Physical and chemical properties

Appearance	: Clear, yellow to brown liquid
Odor	: Characteristic
Odor Threshold	: Not determined
pH	: Not applicable Method: ASTM D1293
Melting Point / Freezing Point	: Not determined
Initial Boiling Point	: > 200°C (> 392 °F)
Flash Point	: > 218 °C (> 424 °F) Method: ASTM D92
Evaporation Rate	: <0.01 mmHg at 20°C
Flammability	: Not flammable
Upper/Lower Explosive Limits	: Not determined
Vapor Pressure	: Not determined Method: ASTM D5482
Vapor Density	: Not determined
Specific Gravity (15 °C / 4 °C)	: 1.040 Method: ASTM D4052

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Solubility in Water	: Yes	
Partition Coefficient	: Not determined	Method: ASTM E1147
Autoignition Temperature	: 400°C (752°F)	Method: <i>literature</i>
Decomposition Temperature	: >288°C (>550°F)	Method: <i>literature</i>
Viscosity	: 55.0 cSt @ 40°C	Method: ASTM D445
VOC	: 0.00 g/L	Method: EPA Method No. 24

### SECTION 10: Stability and reactivity

**Chemical stability:** Stable.

**Hazardous reactions:** None

**Conditions to Avoid:** Keep away from extreme heat.

**Materials to Avoid:** Chlorine, fluorine, and other strong oxidizers.

**Hazardous Decomposition Products:** None identified.

### SECTION 11: Toxicological information

#### -- ACUTE EXPOSURE --

<b>Dermal</b>	LD <sub>50</sub> in rats is >2000 mg/kg. No data available to indicate product or components may be a dermal sensitization hazard.
<b>Inhalation</b>	LD <sub>50</sub> in rats is >2500 mg/kg/4hr. No data available to indicate product or components may be an inhalation sensitization hazard.
<b>Ingestion</b>	LD <sub>50</sub> in rats is >5000 mg/kg.

#### -- CHRONIC EXPOSURE --

<b>Eye</b>	Prolonged or repeated contact may cause eye irritation.
<b>Dermal</b>	Long-term contact may cause dermatitis. May cause an allergic skin reaction
<b>Carcinogenicity</b>	No data available to indicate any components present at greater than 0.1% may present a carcinogenic hazard.
<b>Mutagenicity</b>	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
<b>Reproductive</b>	No data available to indicate either product or components present at greater than 0.1% that may cause reproductive toxicity.
<b>Teratogenicity</b>	No data available to indicate product or any components contained at greater than 0.1% may cause birth defects.
<b>Specific Target Organ</b>	N-phenyl-alpha-naphthylamine has been reported to be a STOT (Repeated Exposure) toxicant in animals (Blood). All other ingredients are not reported to be STOT hazards (Single Exposure, or Repeated Exposure)

### SECTION 12: Ecological information

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**DURATHERM**  
Heat Transfer Fluids

**-- ENVIRONMENTAL TOXICITY --**

**Fish Toxicity:** LC<sub>50</sub> >10 mg/L <100 mg/L (Rainbow Trout, 96 Hr., OECD 203)

**Invertebrate Toxicity:** Not determined.

**Vascular Plant Toxicity:** Not determined.

**Algae Toxicity:** Not determined.

**Bacteria Toxicity:** Not determined.

**-- ENVIRONMENTAL FATE --**

**Persistence and Degradability:** Not determined.

**Bioaccumulative Potential:** Not determined.

**Mobility in Soil:** Not determined.

**Other Adverse Effects:** None identified.

**SECTION 13: Disposal considerations**

Do not empty into drains; dispose of this material and its container as non-hazardous waste.

This material, if discarded, is not a hazardous waste under RCRA Regulation 40 CFR 261. This material, if discarded, should be considered a European non-hazardous waste in accordance with Directive 91/689/EC.

European Waste Catalog Code (EWC-code): 13 03 07

**SECTION 14: Transport information**

<b>UN Number</b>	Not regulated.
<b>UN Proper Shipping Name:</b>	Not regulated.
<b>Transport Hazard Class</b>	Not regulated.
<b>Package Group</b>	Not regulated.
<b>Marine Pollutant</b>	No
<b>Special Precautions</b>	None

**SECTION 15: Regulatory information**

**-- Global International Chemical Inventories --**

<b>USA</b>	All components of this material are on the US TSCA Inventory or are exempt.
<b>Canada</b>	All components of this material are on the DSL or are exempt.

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**-- Chemical Substance Control Laws --**

**EPA 550-B-01-003** This product does not contain greater than 1.0% of any chemical substances (0.1% for carcinogens) listed on the Consolidated List of Chemicals Subject to the Emergency Planning and Community Right-To-Know Act (EPCRA) and Clean Air Act Section 112(r): EPCRA Section 302 Extremely Hazardous Substances, CERCLA Hazardous Substances, EPCRA Section 313 Toxic Chemicals, CAA 112(r) Regulated Chemicals For Accidental Release Prevention.

**SARA 311 Classifications**

Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No
Immediate (Acute) Hazard	Yes
Delayed (Chronic) Hazard	Yes

**-- Right-to-Know Regulations --**

**Cal. Prop. 65** This product does not intentionally contain any chemicals known by the State of California to cause cancer and/or birth defects. Moreover, Duratherm does not routinely analyze its products for impurities which may be such chemicals.

**-- Other / International --**

**Harmonized Tariff Schedule Number** 2710.12.9000

**SECTION 16: Other information**

**Revision Note:**

**NFPA Code:** (Health: 1) (Flammability: 1) (Reactivity: 0)

**Prepared By:**

**Date Revised:**

**Supersedes:**

**Date Prepared:** 2025-01-29

The information provided herein is believed to be accurate to the best of the company's knowledge as of the date of its issue. We do not warrant or guarantee the information provided and will not be held liable for any loss or damage from its use.

**Date Translated:**

This SDS originated in English. Context errors associated with the translation to other languages are avoided to the best of our ability. If the translation is unclear, please reference the English version.

These statements were made by:

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