

# Safety Data Sheet

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2024 and GHS Rev 07

Date of issue: 02/19/2026

Revised on 02/19/2026

## 1 Identification

- **Product Identifier**
- **Trade Name: NuTherm HT100**
- **Relevant identified uses of the substance or mixture and uses advised against:**
- **Product Description:**  
Heat Transfer Fluid. For Industrial Use Only. Not Intended for Use as a Medical Device or Drug., Industrial use
- **Details of the Supplier of the Safety Data Sheet:**
- **Manufacturer/Supplier:**  
NuGeneration Technologies, LLC (dba NuGenTec)  
1155 Park Avenue, Emeryville, CA 94608  
salesteam@nugentec.com www.nugentec.com  
1-888-996-8436 or 1-707-820-4080 for product information
- **Emergency telephone number:**  
PERS Emergency Response: US and Canada - 1-800-633-8253, International 1-801-629-0667

## 2 Hazard(s) Identification

- **Classification of the substance or mixture:**  
The product does not need classification according to OSHA HazCom Standard 29 CFR paragraph (d) of §1910.1200(g) and GHS Rev 03.
- **Label elements:**
- **Hazard pictograms:** Non-Regulated Material
- **Signal word:** Non-Regulated Material
- **Hazard statements:** Non-Regulated Material
- **Unknown acute toxicity:**  
This value refers to knowledge of known, established toxicological or ecotoxicological values. 95 % of the mixture consists of component(s) of unknown toxicity.
- **Information pertaining to particular dangers for man and environment:**
- **Classification system:** NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme
- **NFPA ratings (scale 0 - 4)**



- **HMIS-ratings (scale 0 - 4)**



- **Hazard(s) not otherwise classified (HNOC):** None known
- **Classification according to (d)(1)(ii) of § 1910.1200**  
The SDS issuer does not object to the classifications provided by importers or manufacturers of precursor products.

(Contd. on page 2)

## Safety Data Sheet

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2024 and GHS Rev 07

Date of issue: 02/19/2026

Revised on 02/19/2026

**Trade Name: NuTherm HT100**

- **Hazards not otherwise classified**  
There are no adverse physical or health effects known that are not covered by the hazard classes of the Hazard Communications Standard.

### 3 Composition/Information on Ingredients

- **Non-hazardous components:**

297730-93-9	3-ethoxy-1,1,1,2,3,4,4,5,5,6,6,6-dodecafluoro-2-(trifluoromethyl)hexane	≥85%
-------------	---	------

- **Chemical characterization: Substance**

- **CAS No. Description**

Non-Regulated Material

- **Identification number(s)** Not Applicable

- **Additional information:**

Trade secret made in accordance with paragraph (i) of §1910.1200 of 29 CFR 1910.1200, the OSHA Hazard Communication Standard and U.S. Code of Federal Regulations.

- **Chemical characterization: Substance**

- **Description:**

Mixture of substances listed with non-hazardous additions and/or components that are less than listing threshold. All non-hazardous, components listed under threshold, and listed component total 100%.

- **Dangerous Components:** Non-Regulated Material

- **Additional information:**

The exact percentages of the ingredients of this mixture are considered to be proprietary and are withheld in accordance with the provisions of paragraph (i) of §1910.1200 of 29 CFR 1910.1200 Trade Secrets.

### 4 First-Aid Measures

- **Description of first aid measures**

- **General information:** If symptoms persist, call a physician.

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.

- **After skin contact:**

Wash with soap and water.

Generally, the product does not irritate the skin.

If skin irritation occurs, consult a doctor.

- **After eye contact:**

Rinse opened eye for several minutes under running water.

If eye irritation occurs, consult a doctor.

- **After swallowing:**

Rinse mouth with water.

If swallowed and symptoms occur, consult a doctor.

- **Most important symptoms and effects, both acute and delayed:**

No further relevant information available.

- **Indication of any immediate medical attention and special treatment needed:**

Treat symptomatically.

US

(Contd. on page 3)

## Safety Data Sheet

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2024 and GHS Rev  
07

Date of issue: 02/19/2026

Revised on 02/19/2026

**Trade Name: NuTherm HT100**

### 5 Fire-Fighting Measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
- **For safety reasons unsuitable extinguishing agents:** No further relevant information.
- **Special hazards arising from the substance or mixture:**  
Carbon monoxide, Carbon dioxide, Hydrogen Fluoride During Combustion
- **Advice for firefighters**
- **Special protective equipment for firefighters:**  
As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

### 6 Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures:**  
Keep away from sparks, flames, and extreme heat. Ventilate the area with fresh air. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.
- **Environmental precautions:**  
Inform respective authorities in case of seepage into water course or sewage system.  
Dilute with plenty of water.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (i.e. sand, diatomite, acid binders, universal binders, sawdust).  
Dispose of the collected material according to regulations.  
Eliminate all potential ignition sources when cleaning up spill. Contain spill. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue with an appropriate solvent selected by a qualified and authorized person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and SDS. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

· **PAC-1:**

None of the ingredients are listed.

· **PAC-2:**

None of the ingredients are listed.

· **PAC-3:**

None of the ingredients are listed.

· **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.

US

(Contd. on page 4)

## Safety Data Sheet

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2024 and GHS Rev 07

Date of issue: 02/19/2026

Revised on 02/19/2026

**Trade Name: NuTherm HT100**

### 7 Handling and Storage

**Precautions for safe handling:**

Do not breathe thermal decomposition products. Store work clothes separately from other clothing, food and tobacco products. Avoid release to the environment. No smoking: Smoking while using this product can result in contamination of the tobacco and/or smoke and lead to the formation of hazardous decomposition products. Keep away from sparks, flames, and extreme heat.

**Information about protection against explosions and fires:** No special measures required.

**Conditions for safe storage, including any incompatibilities**

**Storage**

**Requirements to be met by storerooms and receptacles:**

Store in the original container.

Store away from strong bases.

**Information about storage in one common storage facility:** Not required

**Further information about storage conditions:** None.

**Specific end use(s):** No further relevant information available.

### 8 Exposure Controls/Personal Protection

**Control parameters:**

**Components with occupational exposure limits:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

**Additional information:** The lists that were valid during the creation of this SDS were used as basis.

**Exposure controls:**

**Appropriate engineering controls** No further data; see section 7.

**Personal protective equipment**

**General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

Wash hands before breaks and at the end of work.

**Breathing equipment:** Not required

**Protection of hands:**

Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions.

Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing.

**Material of gloves:** Gloves made from the following material(s) are recommended: Neoprene

**Penetration time of glove material:** Not applicable.

**Eye protection:**



Goggles recommended during refilling.

(Contd. on page 5)

US

## Safety Data Sheet

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2024 and GHS Rev 07

Date of issue: 02/19/2026

Revised on 02/19/2026

**Trade Name: NuTherm HT100**

· **Limitation and supervision of exposure into the environment:** None

### 9 Physical and Chemical Properties

· **Information on basic physical and chemical properties**

· **General Information**

· <b>Physical state</b>	Liquid
· <b>Color:</b>	Clear, Colorless
· <b>Odor:</b>	Solvent-like
· <b>Odor threshold:</b>	Not determined
· <b>Melting point/Melting range:</b>	-135 °C (-211 °F)
· <b>Boiling point/Boiling range:</b>	≥129 °C (≥264.2 °F)
· <b>Flammability:</b>	Has flammable limits
· <b>Explosion limits:</b>	
· <b>Lower:</b>	1.8 Vol %
· <b>Upper:</b>	15.0 Vol %
· <b>Flash point:</b>	None
· <b>Auto igniting:</b>	≥330 °C (≥626 °F)
· <b>Decomposition temperature:</b>	Not determined
· <b>pH-value:</b>	Not determined.
· <b>Viscosity:</b>	
· <b>Kinematic:</b>	Not determined
· <b>Dynamic:</b>	Not determined
· <b>Solubility in / Miscibility with:</b>	
· <b>Water @ 20 °C (68 °F):</b>	.0213 ppm
· <b>Partition coefficient (n-octanol/water):</b>	5.75 log POW
· <b>Vapor pressure @ 20 °C (68 °F):</b>	≤2.1 hPa (≤1.6 mm Hg)
· <b>Vapor pressure:</b>	
· <b>Density @ 20 °C (68 °F):</b>	1.63 g/cm <sup>3</sup> (13.6024 lbs/gal)
· <b>Relative density:</b>	Not determined
· <b>Vapor density:</b>	Not determined
· <b>Particle characteristics</b>	Not applicable

· **Other information:**

· <b>Appearance:</b>	
· <b>Form:</b>	Liquid
· <b>Important information on protection of health and environment, and on safety.</b>	
· <b>Ignition temperature:</b>	Product is not self-igniting.
· <b>Danger of explosion:</b>	Product does not present an explosion hazard.
· <b>Solvent content:</b>	
· <b>VOC content:</b>	0.00 %
· <b>Solids content:</b>	0.0 %
· <b>Change in condition</b>	
· <b>Evaporation rate:</b>	Not determined

US

(Contd. on page 6)

## Safety Data Sheet

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2024 and GHS Rev 07

Date of issue: 02/19/2026

Revised on 02/19/2026

**Trade Name: NuTherm HT100**

### 10 Stability and Reactivity

- **Reactivity:** No further relevant information available.
- **Chemical stability:** Product is stable under normal conditions.
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **Possibility of hazardous reactions:** No dangerous reactions known.
- **Conditions to avoid:** Avoid all sources of ignition: heat, sparks and open flames.
- **Incompatible materials:** Strong bases
- **Hazardous decomposition products:**  
Hydrogen fluoride, Perfluoroisobutylene (PFIB), Toxic Vapor, Gas, Particulate

### 11 Toxicological Information

- **Information on toxicological effects:**
- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:** No data available.
- **Primary irritant effect:**
- **On the skin:** No irritating effect.
- **On the eye:** No irritating effect.
- **Additional toxicological information:**
- **Interactive effects** No interactive effects between components are known.
- **Carcinogenic categories:**
- **IARC (International Agency for Research on Cancer):**  
None of the ingredients are listed.
- **NTP (National Toxicology Program):**  
None of the ingredients are listed.
- **OSHA-Ca (Occupational Safety & Health Administration):**  
None of the ingredients are listed.
- **Alternative sources for toxicological information**  
No non-standard sources for toxicological information where used.

### 12 Ecological Information

- **Toxicity:**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability:** No further relevant information available.
- **Bioaccumulative potential:** No further relevant information available.
- **Mobility in soil:** No further relevant information available.
- **Results of PBT and vPvB assessment:**
- **PBT:** Not applicable
- **vPvB:** Not applicable

(Contd. on page 7)

US

## Safety Data Sheet

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2024 and GHS Rev  
07

Date of issue: 02/19/2026

Revised on 02/19/2026

**Trade Name: NuTherm HT100**

- **Other adverse effects:**
- **Additional ecological information:**
- **General notes:** Not known to be hazardous to water.

### 13 Disposal Considerations

- **Waste treatment methods**
- **Recommendation:**  
Observe all federal, state and local environmental regulations when disposing of this material.
- **Uncleaned packaging**
- **Recommendation:**  
Dispose of waste product in a permitted industrial waste facility. As a disposal alternative, incinerate in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. Combustion products will include HF. Facility must be capable of handling halogenated materials. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

### 14 Transport Information

- |   |                        |
|---|------------------------|
| · <b>UN-Number:</b><br>· <b>DOT, ADR/ADN, IMDG, IATA</b>  | Non-Regulated Material |
| · <b>UN proper shipping name:</b><br>· <b>DOT, ADR/ADN, IMDG, IATA</b>                            | Non-Regulated Material |
| · <b>Transport hazard class(es):</b><br>· <b>DOT, ADR/ADN, ADN, IMDG, IATA</b><br>· <b>Class:</b> | Non-Regulated Material |
| · <b>Packing group:</b><br>· <b>DOT, ADR/ADN, IMDG, IATA</b>                                      | Non-Regulated Material |
| · <b>Environmental hazards:</b>   | Not applicable         |
| · <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:</b>                 | Not applicable         |
| · <b>Special precautions for user:</b>  | Not applicable         |
| · <b>UN "Model Regulation":</b>   | Non-Regulated Material |

### 15 Regulatory Information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture:**  
No further relevant information available.

(Contd. on page 8)

## Safety Data Sheet

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2024 and GHS Rev  
07

Date of issue: 02/19/2026

Revised on 02/19/2026

**Trade Name: NuTherm HT100**

· **SARA (Superfund Amendments and Reauthorization):**

· **Section 355 (extremely hazardous substances):**

None of the ingredients are listed.

· **Section 313 (Specific toxic chemical listings):**

None of the ingredients are listed.

· **TSCA (Toxic Substances Control Act):**

All components have the value ACTIVE.

· **Hazardous Air Pollutants**

None of the ingredients are listed.

· **California Proposition 65:**

· **Chemicals known to cause cancer:**

None of the ingredients are listed.

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients are listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients are listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients are listed.

· **New Jersey Right-to-Know List:**

None of the ingredients are listed.

· **New Jersey Special Hazardous Substance List:**

None of the ingredients are listed.

· **Pennsylvania Right-to-Know List:**

None of the ingredients are listed.

· **Pennsylvania Special Hazardous Substance List:**

None of the ingredients are listed.

· **Carcinogenic categories:**

· **EPA (Environmental Protection Agency):**

None of the ingredients are listed.

· **TLV (Threshold Limit Value established by ACGIH):**

None of the ingredients are listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health):**

None of the ingredients are listed.

· **GHS label elements** Non-Regulated Material

· **Hazard pictograms:** Non-Regulated Material

· **Signal word:** Non-Regulated Material

· **Hazard statements:** Non-Regulated Material

· **National regulations:**

The product is not subject to be labelled according with the prevailing version of the regulations on hazardous substances.

(Contd. on page 9)

## Safety Data Sheet

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2024 and GHS Rev  
07

Date of issue: 02/19/2026

Revised on 02/19/2026

**Trade Name: NuTherm HT100**

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 16 Other Information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

· **Date of previous version** 08/18/2025

· **Version number of previous version:** 1

· **Date of preparation** 02/19/2026

· **Abbreviations and acronyms:**

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road

ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety and Health

OSHA: Occupational Safety & Health Administration

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

· **\* Data compared to the previous version altered.**

SDS created by MSDS Authoring Services [www.msdsauthoring.com](http://www.msdsauthoring.com) +1-877-204-9106