

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name: Galden HT High Boiling (HT170, HT200, HT230, HT270)

Other identification:

1.2 Relevant identified uses of the substance or mixture and uses advised against

Antifreeze liquid. Lubricant. No specific uses advised against are identified.

1.3 Details of the supplier of the safety data sheet

SwanTek

Mintsfeet Road South, Kendal, LA9 6ND, UK

Tel: +44 (0)1539 722247 Email: service@swantek.com Web: www.swantek.com

1.4 Emergency telephone number

As per section 1.3

Section 2: Hazards identification

2.1 Classification of the substance or mixture

Not classified as hazardous

2.2 Label elements

Hazard pictograms: (none)

(none)

(none)

(none)

Signal word: (none)

Hazard statements:

Precautionary statements:

Other label elements:

2.3 Other hazards

This product does not contain any substances classified as PBT or vPvB.

Section 3: Composition / information on ingredients

3.1 Substances

3.2 Mixtures

1-Propene, 1,2,2,3,3,3-hexafluoro-,oxidized,polymd: 0 - 100%

Not classified as hazardous

The exact percentage is withheld as a trade secret in accordance with 29 CFR 1910.1200.

Section 4: First aid measures

4.1 Description of first aid measures

General: If in doubt, get medical attention promptly. Show this Safety Data Sheet to the medical personnel.

Protection of first aiders: Use protective equipment appropriate for surrounding materials.

Inhalation: No specific recommendations. If throat irritation or coughing persists, proceed as follows. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Loosen tight clothing such as collar, tie or belt. Get medical attention if any discomfort continues.

Ingestion: No specific recommendations. If throat irritation or coughing persists, proceed as follows. Rinse mouth. Get medical attention if any discomfort continues.

Skin: No specific recommendations. Rinse with water. Get medical attention if any discomfort continues.

Eye: Rinse with water. Get medical attention if any discomfort continues.

4.2 Most important symptoms and effects, both acute and delayed

General: The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

Inhalation: No specific symptoms known. Spray/mists may cause respiratory tract irritation.

Ingestion: No specific symptoms known. May cause discomfort if swallowed.

Skin: No specific symptoms known. May cause discomfort.

Eye: No specific symptoms known. May be slightly irritating to eyes.

4.3 Indication of any immediate medical attention and special treatment needed

Notes for the doctor: Treat symptomatically.

Specific treatments: No special treatment required.

Section 5: Firefighting measures

5.1 Extinguishing media

The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.

5.2 Special hazards arising from the substance or mixture

Containers can burst violently or explode when heated, due to excessive pressure build-up. Thermal decomposition or combustion products may include the following substances: Corrosive gases or vapors. Hydrogen fluoride (HF).

5.3 Advice for firefighters

Avoid breathing fire gases or vapors. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. If a leak or spill has not ignited, use water spray to disperse vapors and protect men stopping the leak.

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Standard Firefighter's clothing including helmets, protective boots and gloves will provide a basic level of protection for chemical incidents.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

No specific recommendations. For personal protection, see Section 8.

6.2 Environmental precautions

Avoid discharge into drains or watercourses or onto the ground.

6.3 Methods and material for containment and cleaning up

Reuse or recycle products wherever possible. Absorb spillage to prevent material damage. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Dispose of contents/container in accordance with national regulations.

6.4 Reference to other sections

For personal protection, see Section 8.

Section 7: Handling and storage

7.1 Precautions for safe handling

Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Handle all packages and containers carefully to minimize spills. Keep container tightly sealed when not in use. Avoid the formation of mists.

Wash promptly if skin becomes contaminated. Take off contaminated clothing and wash before reuse. Wash contaminated clothing before reuse.

7.2 Conditions for safe storage, including any incompatibilities

No specific recommendations.

7.3 Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

Section 8: Exposure controls / personal protection

8.1 Control parameters

8.2 Exposure controls

Appropriate engineering controls: No specific ventilation requirements.

Eye/face protection: No specific eye protection required during normal use. Large Spillages: Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible.

Hand protection: No specific hand protection recommended. Large Spillages: Wear protective gloves.

Hygiene measures: Wash hands thoroughly after handling. Wash at the end of each work shift and before eating, smoking and using the toilet. Do not eat, drink or smoke when using this product.

Respiratory protection: No specific recommendations. Provide adequate ventilation. Large Spillages: If ventilation is inadequate, suitable respiratory protection must be worn.

Environmental exposure controls: Not regarded as dangerous for the environment.

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Note: This information represents typical data and is not a specification.

Appearance	Colorless liquid
Odor	Odorless
Initial boiling point and range	165-270°C @ 760 mm Hg
Vapor pressure	0.01-0.2 hPa @ 20°C
Relative density	> 1.79
Solubility	Insoluble in water
Partition coefficient	Not available
Decomposition temperature	> 290°C
Viscosity	Not available
Explosive properties	Not considered to be explosive

9.2 Other information

Section 10: Stability and reactivity

10.1 Reactivity

There are no known reactivity hazards associated with this product.

10.2 Chemical stability

Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.

10.3 Possibility of hazardous reactions

No potentially hazardous reactions known.

10.4 Conditions to avoid

There are no known conditions that are likely to result in a hazardous situation.

10.5 Incompatible materials

Powdered metal.

10.6 Hazardous decomposition products

Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapors. Hydrogen fluoride (HF).

Section 11: Toxicological information

11.1 Information on toxicological effects

Toxicological effects: Not regarded as a health hazard under current legislation.

Acute toxicity - oral

Notes (oral LD₅₀): Based on available data the classification criteria are not met.

Acute toxicity - dermal

Notes (dermal LD₅₀): Based on available data the classification criteria are not met.

Acute toxicity - inhalation

Notes (inhalation LC₅₀): Based on available data the classification criteria are not met.

Skin corrosion/irritation

Animal data: Based on available data the classification criteria are not met.

Serious eye damage/irritation

Serious eye damage/irritation: Based on available data the classification criteria are not met.

Respiratory sensitization

Respiratory sensitization: Based on available data the classification criteria are not met.
Skin sensitization
Skin sensitization: Based on available data the classification criteria are not met.
Germ cell mutagenicity
Genotoxicity - in vitro: Based on available data the classification criteria are not met.
Carcinogenicity
Carcinogenicity: Based on available data the classification criteria are not met.
IARC carcinogenicity: None of the ingredients are listed or exempt.
Reproductive toxicity
Reproductive toxicity - fertility: Based on available data the classification criteria are not met.
Reproductive toxicity - development: Based on available data the classification criteria are not met.
Specific target organ toxicity - single exposure
STOT - single exposure: Not classified as a specific target organ toxicant after a single exposure.
Specific target organ toxicity - repeated exposure
STOT - repeated exposure: Not classified as a specific target organ toxicant after repeated exposure.
Aspiration hazard
Aspiration hazard: Based on available data the classification criteria are not met.
General information: No specific health hazards known. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Inhalation: No specific symptoms known. Spray/mists may cause respiratory tract irritation.
Ingestion: No specific symptoms known. May cause discomfort if swallowed.
Skin Contact: No specific symptoms known. May cause discomfort.
Eye contact: No specific symptoms known. May be slightly irritating to eyes.
Route of entry: Ingestion Inhalation Skin and/or eye contact
Target Organs: No specific target organs known.

Section 12: Ecological information

12.1 Toxicity

Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment. Based on available data the classification criteria are not met.

12.2 Persistence and degradability

The degradability of the product is not known.

12.3 Bioaccumulative potential

No data available on bioaccumulation.
Partition coefficient: Not available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

12.6 Other adverse effects

None known.

Section 13: Disposal considerations

13.1 Waste treatment methods

General information: The generation of waste should be minimized or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way.
Disposal methods Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste packaging should be collected for reuse or recycling. Incineration or landfill should only be considered when recycling is not feasible. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of the local water authority.

Section 14: Transport information

General

The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DoT).

14.1 UN Number

Not applicable.

14.2 UN proper shipping name

Not applicable.

14.3 Transport hazard class(es)

No transport warning sign required.

14.4 Packing group

Not applicable.

14.5 Environmental hazards

Environmentally Hazardous Substance: No.

14.6 Special precautions for user

Not applicable.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC code

Not applicable.

Section 15: Regulatory information

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

US Federal Regulations

SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities: None of the ingredients are listed or exempt.

CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA): None of the ingredients are listed or exempt.

SARA Extremely Hazardous Substances EPCRA Reportable Quantities: None of the ingredients are listed or exempt.

SARA 313 Emission Reporting: None of the ingredients are listed or exempt.

CAA Accidental Release Prevention: None of the ingredients are listed or exempt.

FDA - Essential Chemical: None of the ingredients are listed or exempt.

FDA - Precursor Chemical: None of the ingredients are listed or exempt.

SARA (311/312) Hazard Categories: None of the ingredients are listed or exempt.

OSHA Highly Hazardous Chemicals: None of the ingredients are listed or exempt.

US State Regulations

California Proposition 65 Carcinogens and Reproductive Toxins: None of the ingredients are listed or exempt.

California Air Toxics "Hot Spots" (A-I): None of the ingredients are listed or exempt.

California Air Toxics "Hot Spots" (A-II): None of the ingredients are listed or exempt.

California Directors List of Hazardous Substances: None of the ingredients are listed or exempt.

Massachusetts "Right To Know" List: None of the ingredients are listed or exempt.

Rhode Island "Right To Know" List: None of the ingredients are listed or exempt.

Minnesota "Right To Know" List: None of the ingredients are listed or exempt.

New Jersey "Right To Know" List: None of the ingredients are listed or exempt.

Pennsylvania "Right To Know" List: None of the ingredients are listed or exempt.

Inventories

US - TSCA: All the ingredients are listed or exempt.

US - TSCA 12(b) Export Notification: None of the ingredients are listed or exempt.

Australia - AICS: All the ingredients are listed or exempt.

Japan - MITI: All the ingredients are listed or exempt.

Korea - KECI: All the ingredients are listed or exempt.

China - IECSC: All the ingredients are listed or exempt.

Philippines - PICCS: All the ingredients are listed or exempt.

New Zealand - NZIOC: All the ingredients are listed or exempt.

15.2 Chemical safety assessment

Section 16: Other information

Only trained personnel should use this material.

The responsibility to ensure safe working conditions within the workplace remains with the user. The information on this SDS is given as a guide to the precautions required to maintain a safe work environment. This product is for professional use only. Not for sale or resale to the general public. Use in applications other than those described above may give rise to risks not covered by the information on this SDS. The physical and chemical properties on this SDS are typical properties and are not a specification. Please report any errors.