



## SAFETY DATA SHEET

### Galden HT Low Boiling

#### 1. Identification

##### Product identifier

**Product name** Galden HT Low Boiling

**Product number** HT55, HT70, HT80, HT110, HT135

##### Recommended use of the chemical and restrictions on use

**Application** Antifreeze liquid. Lubricant.

**Uses advised against** No specific uses advised against are identified.

##### Details of the supplier of the safety data sheet

**Supplier** Kurt J Lesker Company

**Manufacturer** Kurt J Lesker Company  
1925 Route 51  
Jefferson Hills, PA 15025  
+1 412-387-9200

Kurt J Lesker Company LTD  
United Kingdom  
15-16 Burgess Road  
Hastings, East Sussex, TN35 4NR  
England  
Customer Service: +44 (0) 1424 458100  
msds@lesker.com

##### Emergency telephone number

**Emergency telephone** North America [USA, Canada, Mexico]: 1-866-519-4752  
Mainland China: (+86) 4001 2001 74  
Europe: {int'l call prefix}-1-760-476-3961  
Asia Pacific: {int'l call prefix}-1-760-476-3960  
Middle East & Africa: {int'l call prefix}-1-760-476-3959

#### 2. Hazard(s) identification

##### Classification of the substance or mixture

**Physical hazards** Not Classified

**Health hazards** Not Classified

**Environmental hazards** Not Classified

##### Label elements

**Hazard statements** NC Not Classified

##### Other hazards

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

## Galden HT Low Boiling

### 3. Composition/information on ingredients

#### Mixtures

1-Propene, 1,2,2,3,3,3-hexafluoro-,oxidized,polymd.

0 - 100%

CAS number: 69991-67-9

#### Classification

Not Classified

The Full Text for all Hazard Statements are Displayed in Section 16.

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

### 4. First-aid measures

#### Description of first aid measures

|                                   |  |
|-----------------------------------|--|
| <b>General information</b>        | If in doubt, get medical attention promptly. Show this Safety Data Sheet to the medical personnel.   |
| <b>Inhalation</b>                 | 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. |
| <b>Ingestion</b>                  | No specific recommendations. If throat irritation or coughing persists, proceed as follows. Rinse mouth. Get medical attention if any discomfort continues.  |
| <b>Skin Contact</b>               | No specific recommendations. Rinse with water. Get medical attention if any discomfort continues.  |
| <b>Eye contact</b>                | Rinse with water. Get medical attention if any discomfort continues.   |
| <b>Protection of first aiders</b> | Use protective equipment appropriate for surrounding materials.  |

#### Most important symptoms and effects, both acute and delayed

|                            |   |
|----------------------------|---|
| <b>General information</b> | The severity of the symptoms described will vary dependent on the concentration and the length of exposure. |
| <b>Inhalation</b>          | No specific symptoms known. Spray/mists may cause respiratory tract irritation.                             |
| <b>Ingestion</b>           | No specific symptoms known. May cause discomfort if swallowed.  |
| <b>Skin contact</b>        | No specific symptoms known. May cause discomfort.   |
| <b>Eye contact</b>         | No specific symptoms known. May be slightly irritating to eyes.   |

#### Indication of immediate medical attention and special treatment needed

|                             |                                |
|-----------------------------|--------------------------------|
| <b>Notes for the doctor</b> | Treat symptomatically.         |
| <b>Specific treatments</b>  | No special treatment required. |

### 5. Fire-fighting measures

#### Extinguishing media

**Suitable 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.

#### Special hazards arising from the substance or mixture

**Specific hazards**                    Containers can burst violently or explode when heated, due to excessive pressure build-up.

## Galden HT Low Boiling

|  |   |
|--|---|
| <b>Hazardous combustion products</b>                 | Thermal decomposition or combustion products may include the following substances:<br>Corrosive gases or vapors. Hydrogen fluoride (HF).  |
| <b><u>Advice for firefighters</u></b>                |   |
| <b>Protective actions during firefighting</b>        | 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. |
| <b>Special protective equipment for firefighters</b> | 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.   |

### 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

**Personal precautions** No specific recommendations. For personal protection, see Section 8.

#### Environmental precautions

**Environmental precautions** Avoid discharge into drains or watercourses or onto the ground.

#### Methods and material for containment and cleaning up

**Methods for 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.

**Reference to other sections** For personal protection, see Section 8.

### 7. Handling and storage

#### Precautions for safe handling

**Usage precautions** 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.

**Advice on general occupational hygiene** Wash promptly if skin becomes contaminated. Take off contaminated clothing and wash before reuse. Wash contaminated clothing before reuse.

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

**Storage precautions** No specific recommendations.

**Storage class** Unspecified storage.

#### Specific end uses(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

### 8. Exposure Controls/personal protection

#### 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.

## Galden HT Low Boiling

|  |   |
|--|---|
| <b>Hygiene measures</b>                | 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. |
| <b>Respiratory protection</b>          | No specific recommendations. Provide adequate ventilation. Large Spillages: If ventilation is inadequate, suitable respiratory protection must be worn.                       |
| <b>Environmental exposure controls</b> | Not regarded as dangerous for the environment.  |

### 9. Physical and Chemical Properties

#### Information on basic physical and chemical properties

|   |                                 |
|---|---------------------------------|
| <b>Appearance</b>                                   | Colorless liquid.               |
| <b>Odor</b>   | Odorless.                       |
| <b>Odor threshold</b>                               | Not applicable.                 |
| <b>pH</b>   | Not applicable.                 |
| <b>Melting point</b>                                | Not available.                  |
| <b>Initial boiling point and range</b>              | 55-135°C @ 760 mm Hg            |
| <b>Flash point</b>                                  | Not applicable.                 |
| <b>Evaporation rate</b>                             | Not available.                  |
| <b>Flammability (solid, gas)</b>                    | Not applicable.                 |
| <b>Upper/lower flammability or explosive limits</b> | Not applicable.                 |
| <b>Vapor pressure</b>                               | 149-295 hPa @ 20°C              |
| <b>Vapor density</b>                                | Not available.                  |
| <b>Relative density</b>                             | > 1.66                          |
| <b>Bulk density</b>                                 | Not available.                  |
| <b>Solubility(ies)</b>                              | Insoluble in water.             |
| <b>Partition coefficient</b>                        | Not available. log Pow: ~ 4.43  |
| <b>Auto-ignition temperature</b>                    | Not applicable.                 |
| <b>Decomposition Temperature</b>                    | >290°C                          |
| <b>Viscosity</b>                                    | 0.748-1.7 cSt @ 20°C            |
| <b>Explosive properties</b>                         | Not considered to be explosive. |
| <b>Molecular weight</b>                             | Not available.                  |

### 10. Stability and reactivity

|   |   |
|---|---|
| <b>Reactivity</b>                         | There are no known reactivity hazards associated with this product.   |
| <b>Stability</b>                          | Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions. |
| <b>Possibility of hazardous reactions</b> | No potentially hazardous reactions known.   |

## Galden HT Low Boiling

|   |   |
|---|---|
| <b>Conditions to avoid</b>              | There are no known conditions that are likely to result in a hazardous situation.   |
| <b>Materials to avoid</b>               | Powdered metal.   |
| <b>Hazardous decomposition products</b> | 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). |

### 11. Toxicological information

#### Information on toxicological effects

|  |   |
|--|---|
| <b>Toxicological effects</b>                                     | Not regarded as a health hazard under current legislation.                  |
| <b><u>Acute toxicity - oral</u></b>                              |   |
| <b>Notes (oral LD<sub>50</sub>)</b>                              | Based on available data the classification criteria are not met.            |
| <b><u>Acute toxicity - dermal</u></b>                            |   |
| <b>Notes (dermal LD<sub>50</sub>)</b>                            | Based on available data the classification criteria are not met.            |
| <b><u>Acute toxicity - inhalation</u></b>                        |   |
| <b>Notes (inhalation LC<sub>50</sub>)</b>                        | Based on available data the classification criteria are not met.            |
| <b><u>Skin corrosion/irritation</u></b>                          |   |
| <b>Animal data</b>   | Based on available data the classification criteria are not met.            |
| <b><u>Serious eye damage/irritation</u></b>                      |   |
| <b>Serious eye damage/irritation</b>                             | Based on available data the classification criteria are not met.            |
| <b><u>Respiratory sensitization</u></b>                          |   |
| <b>Respiratory sensitization</b>                                 | Based on available data the classification criteria are not met.            |
| <b><u>Skin sensitization</u></b>                                 |   |
| <b>Skin sensitization</b>  | Based on available data the classification criteria are not met.            |
| <b><u>Germ cell mutagenicity</u></b>                             |   |
| <b>Genotoxicity - in vitro</b>                                   | Based on available data the classification criteria are not met.            |
| <b><u>Carcinogenicity</u></b>                                    |   |
| <b>Carcinogenicity</b>   | Based on available data the classification criteria are not met.            |
| <b>IARC carcinogenicity</b>                                      | None of the ingredients are listed or exempt.                               |
| <b><u>Reproductive toxicity</u></b>                              |   |
| <b>Reproductive toxicity - fertility</b>                         | Based on available data the classification criteria are not met.            |
| <b>Reproductive toxicity - development</b>                       | Based on available data the classification criteria are not met.            |
| <b><u>Specific target organ toxicity - single exposure</u></b>   |   |
| <b>STOT - single exposure</b>                                    | Not classified as a specific target organ toxicant after a single exposure. |
| <b><u>Specific target organ toxicity - repeated exposure</u></b> |   |
| <b>STOT - repeated exposure</b>                                  | Not classified as a specific target organ toxicant after repeated exposure. |
| <b><u>Aspiration hazard</u></b>                                  |   |
| <b>Aspiration hazard</b>   | Based on available data the classification criteria are not met.            |

## Galden HT Low Boiling

|                            |   |
|----------------------------|---|
| <b>General information</b> | No specific health hazards known. The severity of the symptoms described will vary dependent on the concentration and the length of exposure. |
| <b>Inhalation</b>          | No specific symptoms known. Spray/mists may cause respiratory tract irritation.   |
| <b>Ingestion</b>           | No specific symptoms known. May cause discomfort if swallowed.  |
| <b>Skin Contact</b>        | No specific symptoms known. May cause discomfort.   |
| <b>Eye contact</b>         | No specific symptoms known. May be slightly irritating to eyes.   |
| <b>Route of entry</b>      | Ingestion Inhalation Skin and/or eye contact  |
| <b>Target Organs</b>       | No specific target organs known.  |

### 12. Ecological Information

|   |   |
|---|---|
| <b>Ecotoxicity</b>                          | Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment. |
| <b><u>Toxicity</u></b>                      |   |
| <b>Toxicity</b>                             | Based on available data the classification criteria are not met.  |
| <b><u>Persistence and degradability</u></b> |   |
| <b>Persistence and degradability</b>        | The degradability of the product is not known.  |
| <b><u>Bioaccumulative potential</u></b>     |   |
| <b>Bio-Accumulative Potential</b>           | No data available on bioaccumulation.   |
| <b>Partition coefficient</b>                | Not available. log Pow: ~ 4.43  |
| <b><u>Mobility in soil</u></b>              |   |
| <b>Mobility</b>                             | No data available.  |
| <b><u>Other adverse effects</u></b>         |   |
| <b>Other adverse effects</b>                | None known.   |

### 13. Disposal considerations

#### Waste treatment methods

|                            |  |
|----------------------------|--|
| <b>General information</b> | 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.  |
| <b>Disposal methods</b>    | 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. |

### 14. Transport information

|                                       |  |
|---------------------------------------|--|
| <b>General</b>                        | The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DoT). |
| <b><u>UN Number</u></b>               | Not applicable.  |
| <b><u>UN proper shipping name</u></b> |  |

## Galden HT Low Boiling

Not applicable.

### Transport hazard class(es)

No transport warning sign required.

### Packing group

Not applicable.

### Environmental hazards

#### **Environmentally Hazardous Substance**

No.

### Special precautions for user

Not applicable.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

## 15. Regulatory information

### 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.

## Galden HT Low Boiling

### 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.

### 16. Other information

|                          |  |
|--------------------------|--|
| <b>Training advice</b>   | Only trained personnel should use this material.                                       |
| <b>Revision comments</b> | NOTE: Lines within the margin indicate significant changes from the previous revision. |
| <b>Issued by</b>         | HS&E Manager.  |
| <b>Revision date</b>     | 1/12/2017  |
| <b>Revision</b>          | 1  |
| <b>SDS No.</b>           | 5010   |



## Galden HT Low Boiling

**SDS status**

Approved.

**End of SDS**

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This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.