

## Safety Data Sheet

according to UK REACH Regulation

### DW-Therm HT, P20.340.32

Revision date: 26.11.2024

Product code: DW-ThermHT

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

### 1.1. Product identifier

DW-Therm HT, P20.340.32

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

#### Use of the substance/mixture

Heat transfer fluid

#### Uses advised against

Any non-intended use.

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

Company name: Huber UK Temperature Control Ltd.  
Street: Heage Road Industrial Estate  
Place: GB-DE5 3GH Ripley, Derbyshire  
Telephone: +44 1773 82 3369  
E-mail: info@huber-uk.co.uk  
Internet: https://www.huber-uk.co.uk

### 1.4. Emergency telephone number:

UK NPIS 0344 892 0111

#### Further Information

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## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### GB CLP Regulation

Aquatic Chronic 1; H410

Full text of hazard statements: see SECTION 16.

### 2.2. Label elements

#### GB CLP Regulation

Signal word: Warning

Pictograms:



#### Hazard statements

H410 Very toxic to aquatic life with long lasting effects.

#### Precautionary statements

P273 Avoid release to the environment.  
P391 Collect spillage.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

### 2.3. Other hazards

The mixture contains the following substances fulfilling the PBT criteria according to UK REACH:  
1,2,3,4-Tetrahydro-6-(1-phenylethyl)naphthalene.

This product does not contain a substance (> 0,1%) that has endocrine disrupting properties with respect to humans as no components meets the criteria. This product does not contain a substance (> 0,1 %) that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

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## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Relevant ingredients

| CAS No    | Chemical name                                   |          |          | Quantity     |
|-----------|---|----------|----------|--------------|
|           | EC No   | Index No | REACH No |              |
|           | Classification (GB CLP Regulation)              |          |          |              |
| 6196-98-1 | 1,2,3,4-Tetrahydro-6-(1-phenylethyl)naphthalene |          |          | 99 - < 100 % |
|           | 400-370-7                                       |          |          |              |
|           | Aquatic Chronic 1; H410                         |          |          |              |

Full text of H and EUH statements: see section 16.

#### Further Information

Product does not contain listed SVHC substances > 0.1 % according to UK REACH.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

#### After inhalation

In case of accident by inhalation: remove casualty to fresh air and keep at rest. In case of respiratory tract irritation, consult a physician.

#### After contact with skin

Gently wash with plenty of soap and water. In case of skin irritation, seek medical treatment.

#### After contact with eyes

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. In case of troubles or persistent symptoms, consult an ophthalmologist.

#### After ingestion

Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect). Do NOT induce vomiting. In all cases of doubt, or when symptoms persist, seek medical advice.

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

See sections 2 and 11

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

Carbon dioxide (CO<sub>2</sub>). Dry extinguishing powder. Alcohol resistant foam. Atomized water.

#### Unsuitable extinguishing media

High power water jet.

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

Can be released in case of fire: Carbon monoxide. Carbon dioxide (CO<sub>2</sub>).

### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

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**Additional information**

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.  
Co-ordinate fire-fighting measures to the fire surroundings.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures****General advice**

Safe handling: see section 7

**For non-emergency personnel**

Wear personal protection equipment (refer to section 8).

**For emergency responders**

No special measures are necessary.

**6.2. Environmental precautions**

Discharge into the environment must be avoided.

**6.3. Methods and material for containment and cleaning up****For containment**

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

Treat the recovered material as prescribed in the section on waste disposal.

**For cleaning up**

Clean contaminated objects and areas thoroughly observing environmental regulations.

**6.4. Reference to other sections**

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Advice on safe handling**

Wear suitable protective clothing. The expansion vessel (e) of the Unistat can be statically overlaid with inert gas. From a working temperature of 170°C, an inert gas blanket must be used in the expansion vessel.

**Advice on protection against fire and explosion**

Usual measures for fire prevention.

**Advice on general occupational hygiene**

Always close containers tightly after the removal of product. When using do not eat, drink or smoke. Wash hands before breaks and after work.

**Further information on handling**

General protection and hygiene measures: See section 8.

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep container tightly closed in a cool, well-ventilated place.

**Hints on joint storage**

Do not store together with: Explosives. Oxidizing solids. Oxidizing liquids. Radioactive substances. Infectious substances. Food and animal feedingstuff.

**Further information on storage conditions**

Keep the packing dry and well sealed to prevent contamination and absorption of humidity.

Recommended storage temperature: 20 °C

Protect against: frost. UV-radiation/sunlight. heat. Humidity

**7.3. Specific end use(s)**

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See section 1.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Additional advice on limit values**

To date, no national critical limit values exist.

**8.2. Exposure controls****Appropriate engineering controls**

Technical measures and the application of suitable work processes have priority over personal protection equipment.

Provide adequate ventilation.

**Individual protection measures, such as personal protective equipment****Eye/face protection**

Wear safety glasses; chemical goggles (if splashing is possible). EN ISO 16321-1:2022

**Hand protection**

Wear suitable gloves.

Suitable material:

FKM (fluororubber). - Thickness of glove material: 0,4 mm

Breakthrough time  $\geq$  8 h

Butyl rubber. - Thickness of glove material: 0,5 mm

Breakthrough time  $\geq$  8 h

CR (polychloroprenes, Chloroprene rubber). - Thickness of glove material: 0,5 mm

Breakthrough time  $\geq$  8 h

NBR (Nitrile rubber). - Thickness of glove material: 0,35 mm

Breakthrough time  $\geq$  8 h

PVC (Polyvinyl chloride). - Thickness of glove material: 0,5 mm

Breakthrough time  $\geq$  8 h

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

The selected protective gloves have to satisfy the specifications of the Personal Protective Equipment at Work (Amendment) Regulations 2022 and the standard EN ISO 374.

Check leak tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well.

**Skin protection**

Suitable protective clothing: Lab apron.

**Respiratory protection**

With correct and proper use, and under normal conditions, breathing protection is not required.

Respiratory protection necessary at:

-Exceeding exposure limit values

-Insufficient ventilation and aerosol or mist formation

Suitable respiratory protective equipment: particulates filter device (DIN EN 143). Type: P1-3

Half-face mask or quarter facepiece: maximum use concentration for substances with exposure limits: P1 filter: up to a max. of 4 times the exposure limit. P2 filter: up to a max. of 10 times the exposure limit. P3 filter: up to a max. of 30 times the expo.

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

**Environmental exposure controls**

Do not allow uncontrolled discharge of product into the environment.

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## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|   |                |                    |
|---|----------------|--------------------|
| Physical state:   | liquid         |                    |
| Colour:   | orange         |                    |
| Odour:  | characteristic |                    |
| Odour threshold:  | not determined |                    |
|   |                | <b>Test method</b> |
| Melting point/freezing point:                             | - 34 °C        | DIN 51583          |
| Boiling point or initial boiling point and boiling range: | 353 °C         | ASTM D 1120        |
| Flammability:   | not determined |                    |
| Lower explosion limits:                                   | 0,39 vol. %    |                    |
| Upper explosion limits:                                   | 4,59 vol. %    |                    |
| Flash point:  | 194 °C         | ASTM D 93          |
| Auto-ignition temperature:                                | 385 °C         |                    |
| Decomposition temperature:                                | not relevant   |                    |
| pH-Value:   | not determined |                    |
| Viscosity / kinematic:<br>(at 25 °C)                      | 30,8 mm²/s     | DIN 51562          |
| Water solubility:   | insoluble      |                    |
| Solubility in other solvents                              | not determined |                    |
| Dissolution rate:   | not relevant   |                    |
| Partition coefficient n-octanol/water:                    | not relevant   |                    |
| Dispersion stability:                                     | not relevant   |                    |
| Vapour pressure:  | not determined |                    |
| Density:  | not determined |                    |
| Bulk density:   | not relevant   |                    |
| Relative vapour density:                                  | not determined |                    |
| Particle characteristics:                                 | not relevant   |                    |

### 9.2. Other information

#### Information with regard to physical hazard classes

|                           |                           |
|---------------------------|---------------------------|
| Explosive properties      | none                      |
| Sustaining combustion:    | Not sustaining combustion |
| Self-ignition temperature |                           |
| Solid:                    | not relevant              |
| Gas:                      | not relevant              |
| Oxidizing properties      |                           |
| none                      |                           |

#### Other safety characteristics

|                          |                |
|--------------------------|----------------|
| Evaporation rate:        | not determined |
| Solvent separation test: | not determined |
| Solvent content:         | not determined |
| Solid content:           | not determined |
| Sublimation point:       | not relevant   |
| Softening point:         | not relevant   |
| Pour point:              | not relevant   |
| Viscosity / dynamic:     | not determined |
| Flow time:               | not determined |

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**Further Information**

No information available.

**SECTION 10: Stability and reactivity****10.1. Reactivity**

No information available.

**10.2. Chemical stability**

The product is chemically stable under recommended conditions of storage, use and temperature.

**10.3. Possibility of hazardous reactions**

Refer to section 10.5.

**10.4. Conditions to avoid**

Protect against: UV-radiation/sunlight. heat.

**10.5. Incompatible materials**

Materials to avoid: Oxidizing agents, strong. Reducing agents, strong.

**10.6. Hazardous decomposition products**

Does not decompose when used for intended uses.

**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in GB CLP Regulation****Toxicokinetics, metabolism and distribution**

No data available.

**Acute toxicity**

Based on available data, the classification criteria are not met.

**ATEmix calculated**

ATE (oral) &gt; 2000 mg/kg; ATE (dermal) &gt; 2000 mg/kg; ATE (inhalation vapour) &gt; 20 mg/l; ATE (inhalation dust/mist) &gt; 5 mg/l

**Irritation and corrosivity**

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

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

**Sensitising effects**

Based on available data, the classification criteria are not met.

**Carcinogenic/mutagenic/toxic effects for reproduction**

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

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

Reproductive toxicity: Based on available data, the classification criteria are not met.

**STOT-single exposure**

Based on available data, the classification criteria are not met.

**STOT-repeated exposure**

Based on available data, the classification criteria are not met.

**Aspiration hazard**

Based on available data, the classification criteria are not met.

**Specific effects in experiment on an animal**

No data available.

**11.2. Information on other hazards****Endocrine disrupting properties**

This product does not contain a substance (&gt; 0,1%) that has endocrine disrupting properties with respect to humans as no components meets the criteria.

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#### Other information

No data available.

### SECTION 12: Ecological information

#### 12.1. Toxicity

Very toxic to aquatic life with long lasting effects.

#### 12.2. Persistence and degradability

The product has not been tested.

#### 12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

#### 12.4. Mobility in soil

No data available.

#### 12.5. Results of PBT and vPvB assessment

The mixture contains the following substances fulfilling the PBT criteria according to UK REACH:

1,2,3,4-Tetrahydro-6-(1-phenylethyl)naphthalene.

#### 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

The aforementioned statement applies to substances contained in the product with a minimum content of 0.1 %.

#### 12.7. Other adverse effects

No data available.

#### Further information

Do not allow to enter into surface water or drains.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

##### Disposal recommendations

Observe in addition any national regulations! Consult the local waste disposal expert about waste disposal.

Non-contaminated packages may be recycled.

According to (EWC) European Waste Catalogue, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

Control report for waste code/ waste marking according to (EWC) European Waste Catalogue:

##### List of Wastes Code - contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

##### Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

### SECTION 14: Transport information

#### Land transport (ADR/RID)

##### 14.1. UN number or ID number:

UN 3082

##### 14.2. UN proper shipping name:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(1,2,3,4-Tetrahydro-6-(1-phenylethyl)naphthalene)

##### 14.3. Transport hazard class(es):

9

##### 14.4. Packing group:

III

Hazard label:

9

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Classification code: M6  
 Special Provisions: 274 335 375 601  
 Limited quantity: 5 L  
 Excepted quantity: E1  
 Transport category: 3  
 Hazard No: 90  
 Tunnel restriction code: -

#### Inland waterways transport (ADN)

**14.1. UN number or ID number:** UN 3082  
**14.2. UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (1,2,3,4-Tetrahydro-6-(1-phenylethyl)naphthalene)  
**14.3. Transport hazard class(es):** 9  
**14.4. Packing group:** III  
 Hazard label: 9



Classification code: M6  
 Special Provisions: 274 335 375 601  
 Limited quantity: 5 L  
 Excepted quantity: E1

#### Marine transport (IMDG)

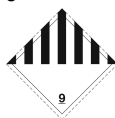
**14.1. UN number or ID number:** UN 3082  
**14.2. UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (1,2,3,4-Tetrahydro-6-(1-phenylethyl)naphthalene)  
**14.3. Transport hazard class(es):** 9  
**14.4. Packing group:** III  
 Hazard label: 9



Marine pollutant: YES  
 Special Provisions: 274 335 969  
 Limited quantity: 5 L  
 Excepted quantity: E1  
 EmS: F-A, S-F

#### Air transport (ICAO-TI/IATA-DGR)

**14.1. UN number or ID number:** UN 3082  
**14.2. UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (1,2,3,4-Tetrahydro-6-(1-phenylethyl)naphthalene)  
**14.3. Transport hazard class(es):** 9  
**14.4. Packing group:** III  
 Hazard label: 9



Special Provisions: A97 A158 A197 A215  
 Limited quantity Passenger: 30 kg G



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|  |      |       |
|--|------|-------|
| Passenger LQ:                          | Y964 |       |
| Excepted quantity:                     | E1   |       |
| IATA-packing instructions - Passenger: |      | 964   |
| IATA-max. quantity - Passenger:        |      | 450 L |
| IATA-packing instructions - Cargo:     |      | 964   |
| IATA-max. quantity - Cargo:            |      | 450 L |

#### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: Yes



Danger releasing substance: 1,2,3,4-Tetrahydro-6-(1-phenylethyl)naphthalene

#### 14.6. Special precautions for user

Refer to section 6 - 8

#### 14.7. Maritime transport in bulk according to IMO instruments

not relevant

#### Other applicable information

Hazchem code: •3Z

### SECTION 15: Regulatory information

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

##### EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3

Directive 2010/75/EU on industrial emissions: not determined

Directive 2004/42/EC on VOC in paints and varnishes: not determined

Information according to Directive 2012/18/EU (SEVESO III): E1 Hazardous to the Aquatic Environment

##### Additional information

Safety Data Sheet according to UK-REACH Regulation

The mixture is classified as hazardous according to GHS (GB CLP).

UK REACH Appendix XVII, No (mixture): 3

##### National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Water hazard class (D): 3 - highly hazardous to water

#### 15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

### SECTION 16: Other information

#### Changes

Rev. 1,0; Initial release: 26.11.2024

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#### Abbreviations and acronyms

Aquatic Chronic: Chronic aquatic hazard  
 ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
 AGW: Arbeitsplatzgrenzwert  
 CAS: Chemical Abstracts Service  
 CLP: Classification, Labelling and Packaging of substances and mixtures  
 DNEL: Derived No Effect Level  
 d: day(s)  
 EINECS: European INventory of Existing Commercial chemical Substances  
 ELINCS: European List of Notified Chemical Substances  
 ECHA: European Chemicals Agency  
 EWC: European Waste Catalogue  
 IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER  
 IMDG: International Maritime Code for Dangerous Goods  
 IATA: International Air Transport Association  
 IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)  
 ICAO: International Civil Aviation Organization  
 ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)  
 GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
 GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)  
 h: hour  
 LOAEL: Lowest observed adverse effect level  
 LOAEC: Lowest observed adverse effect concentration  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent  
 NOAEL: No observed adverse effect level  
 NOAEC: No observed adverse effect concentration  
 NLP: No-Longer Polymers  
 N/A: not applicable  
 OECD: Organisation for Economic Co-operation and Development  
 PNEC: predicted no effect concentration  
 PBT: Persistent bioaccumulative toxic  
 RID: Regulation Concerning the International Transport of Dangerous Goods by Rail  
 REACH: Registration, Evaluation, Authorisation of Chemicals  
 SVHC: substance of very high concern  
 TRGS: Technische Regeln für Gefahrstoffe  
 UN: United Nations  
 VOC: Volatile Organic Compounds  
 WGK: Water Hazard Class (Germany)

#### Classification for mixtures and used evaluation method according to GB CLP Regulation

|                         |                          |
|-------------------------|--------------------------|
| Classification          | Classification procedure |
| Aquatic Chronic 1; H410 | Calculation method       |

#### Relevant H and EUH statements (number and full text)

H410 Very toxic to aquatic life with long lasting effects.

#### Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

*(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*