

THERMERA R

105720100

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

1.1. Product identifier

Trade name : THERMERA R

1.2. Relevant identified uses of the substance or mixture and uses advised against
1.2.1 Relevant identified uses : Heat transfer fluid

1.3. Details of the supplier of the safety data sheet

 : DEHON SERVICE
 26 Avenue du Petit Parc
 94683 VINCENNES Cedex France
 Tel : +33 (0) 1 43 98 75 00
 Fax : +33 (0) 1 43 98 21 51

e-mail : ContactFDS@climalife.dehon.com

1.4 Emergency telephone number

 : EMERGENCY TELEPHONE NUMBER (24h/24) : + 33 (0) 1 72 11 00 03
 Anti-poison Center : INRS/ORFILA (France) : +33 (0) 1 45 42 59 59
 Anti-poison Centre (Belgium) : +32 70 245 245
 Anti-poison Centre (Spain) : +34 91 562 04 20
 Anti-poison Centre (Finland/Estonia) : +358 9 471977
 Anti-poison Centre (Netherlands) : +31 30 274 8888
 Anti-poison Centre (United Kingdom) : +44 870 600 6266
 Poisons Information Centre (Hungary) : +36 80 201 199

SECTION 2 Hazards identification

2.1. Classification of the substance or mixture
2.1.1. Regulation (EC) No 1272/2008 (CLP) : Not classified as dangerous product.

2.2. Label elements
2.2.1 Labelling EC 1272/2008 (CLP) : None

2.3. Other hazards : Repeated or prolonged skin contact may cause dermatitis and defatting.

SECTION 3 Composition/information on ingredients

3.1./3.2. Substance / Mixture : Mixture

Components contributing to the hazard :

Substance name	Contents	CAS No	EC No	Index No	Ref REACH	Classification
Betaine	: 40 to 60 %	107-43-7	203-490-6	----	01-2119520508-42	Not classified. (DSD/DPD) Not classified. (GHS)

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SECTION 4 First aid measures

4.1. Description of first aid measures

- Inhalation** : In case of irritation or coughing : Move the affected person to the fresh air
- Skin contact** : Wash with soapy water
Obtain medical attention if irritation persists.
- Eye contact** : Immediately rinse with water for a prolonged period while holding the eyelids wide open
- Ingestion** : Rinse mouth out with water
Seek medical attention if ill effect develops.

4.2. Most important symptoms and effects, both acute and delayed : No information available

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

SECTION 5 Fire-fighting measures

5.1. Extinguishing media

- Suitable extinguishing media** : Water spray
Carbon dioxide (CO₂)
Alcohol resistant foam
Dry powder
- Unsuitable extinguishing media** : None to our knowledge. If there is a fire close by, use suitable extinguishing agents
- 5.2. Special hazards arising from the substance or mixture** : Non flammable.
- 5.3. Advice for firefighters** : Complete protective clothing
Self-contained breathing apparatus

SECTION 6 Accidental release measures

- 6.1. Personal precautions, protective equipment and emergency procedures** : Avoid contact with skin and eyes
Do not breathe vapours
- 6.2. Environmental precautions** : Not specifically applicable
- Environmental precautions :** : Do not allow product to spread into the environment
- 6.3. Methods and material for containment and cleaning up** : Absorb spillage with:
- absorbent material
Wash non-recoverable remainder with large amounts of water
Dispose of contaminated materials in accordance with current regulations.
- 6.4 Reference to other sections** : For further information refer to section 8 "Exposure controls/personal protection"

SECTION 7 Handling and storage

- 7.1. Precautions for safe handling**
- Technical measures** : Does not require any specific or particular measures
- 7.2. Conditions for safe storage, including any incompatibilities**
- Recommended** : Store :
- in a cool, well-ventilated area
- the container tightly closed
- Packaging materials**

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SECTION 7 Handling and storage (continued)

- Recommended : Original packaging
 7.3. Specific end use(s)

SECTION 8 Exposure controls/personal protection
8.1. Control parameters
Personal protection :

- Respiratory protection : No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation.
 - Hand protection : Protective gloves made of rubber
 - Eye protection : Safety goggles

SECTION 9 Physical and chemical properties
9.1. Information on basic physical and chemical properties
9.1.a. Appearance

- Physical state : Liquid
 Colour : Brown

9.1.b. Odour : Light.

9.1.c. Odour threshold : No data

9.1.d. pH : 7 - 9

9.1.e. Melting point / Freezing point : -35 °C

9.1.f. Initial boiling point - boiling range : 105-110 °C

9.1.g. Flash point : None

9.1.h. Evaporation rate : No data

9.1.i. Flammability : Non flammable.

9.1.j. Explosion limits (lower - upper) : Not applicable

9.1.k. Vapour pressure : No data

9.1.l. Vapour density : No data

9.1.m. Density : 1092,9 kg/m³ at 20 °C

9.1.n. Solubility

-in water : Soluble

9.1.o. Partition coefficient : n-octanol / water : No data

9.1.p. Auto-ignition temperature : Not applicable

9.1.q. Thermal decomposition : > 110 °C

9.1.r. Viscosity

Kinematic viscosity : 3,8 mm²/s at 40°C

9.1.s. Explosive Properties : Not explosive material according to EC criteria

9.1.t. Oxidising properties : Non oxidizing material according to EC criteria

9.2. Other information
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SECTION 10 Stability and reactivity

- 10.1. Reactivity : No data
- 10.2. Chemical stability : Stable at ambient temperature and under normal conditions of use
- 10.3. Possibility of hazardous reactions : No dangerous reactions known under normal conditions of use
- 10.4. Conditions to avoid : may decompose slowly above 65 °C
Decomposes:
- above 110 °C.
- 10.5. Incompatible materials : No information available
- 10.6. Hazardous decomposition products : None, to our knowledge

SECTION 11 Toxicological information

- 11.1. Information on toxicological effects
- Acute toxicity
- On ingredients
- Betaine : Rat oral LD50 [mg/kg] : 11179
- Respiratory or skin sensitization : Does not cause cutaneous sensitisation for guinea-pigs.
- Skin corrosion/irritation : Not irritating to skin
 - Serious eye damage/irritation : Not irritating to eyes
 - Respiratory or skin sensitisation : No sensitizing effect is known
 - Germ cell mutagenicity : No information available
 - Carcinogenicity : No information available
 - Reproductive toxicity : No information available
 - STOT-single exposure : No information available
 - STOT-repeated exposure : No information available
 - Aspiration hazard : Not applicable


SECTION 12 Ecological information

- 12.1. Toxicity
- Effects on the aquatic environment : This product contains no hazardous components for the aquatic environment.
- 12.2. Persistence and degradability : Readily biodegradable
- 12.4. Mobility in soil
- 12.5. Results of PBT and vPvB assessment
- 12.6. Other adverse effects

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SECTION 13 Disposal considerations

13.1. Waste treatment methods

WASTE FROM PRODUCT :

Destruction/Disposal : Conform to current legislation, regulations and orders

CONTAMINATED PACKAGING :

Destruction/Disposal : Dispose of at an licensed site

NOTE : The user's attention is drawn to the possible existence of specific european, national or local regulations regarding disposal

SECTION 14 Transport information

RID/ADR/IMDG/IATA : Not regulated

SECTION 15 Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture : Ensure all national/local regulations are observed.

Germany : : WGK (Water-endangerment class) : 1

15.2. Chemical safety assessment : No information available

SECTION 16 Other information

Further information : Product for industrial use only
 For more information regarding the use of this product, please refer to our technical information or contact the sales department in your region
 This safety data sheet has been written in conformity with the regulation (UE) 453/2010.

*** Update** : Modifications are indicated by an asterisk (*)

This sheet complements the technical sheets but does not replace them. The information given is based on our knowledge of the product, at the time of publication. It is given in good faith.
 Besides, the attention of the user is drawn to the possible risks incurred by using the product for any other use than that for which it was intended.

In no way does this exempt the user from knowing and applying all the regulations controlling his activity. He alone will take on the responsibility for taking the precautions involved by the use of the product.

The aim of all the mandatory regulations mentioned is just to help the user to fulfil his obligations regarding the use of hazardous products.

This information must not be considered exhaustive. It does not exempt the user from ensuring that other obligations than those mentioned could apply, related to the storage and use of the product, this being his sole responsibility.

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