

 	<h1>MATERIAL SAFETY DATA SHEET</h1>	Page : 1 / 4
		Version : 5
		Date : 13/2/2008
		Supersedes : 18/10/2007
<h2>THERMERA</h2>		1057200

### 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : THERMERA  
 Recommended uses : Heat transfer fluid  
 SUPPLIER :  
 Name : DEHON SERVICE  
 Address : 26, Avenue du Petit Parc  
 94683 VINCENNES Cedex  
 Telephone number : 01 43 98 75 00  
 Telefax number : 01 43 98 21 51  
 e-mail : ContactFDS@dehon.com  
 Department to contact : Department Material Safety Data Sheets - TEL : +33(0)1 49 83 53 00  
 EMERGENCY TELEPHONE NUMBER : EMERGENCY TELEPHONE NUMBER (24h/24) : +44 (0)208 762 8323  
 Anti-poison Center :INRS/ORFILA (France) : +33 (0) 1 45 42 59 59

### 2 HAZARDS IDENTIFICATION

MOST IMPORTANT HAZARDS :  
 Adverse human health effects : To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice  
 Environmental effects : Presents no particular risk to the environment, provided the disposal requirements ( see section 13) and national or local regulations are complied with.  
 Physical and chemical hazards :  
 - Fire or explosion : No particular fire or explosion hazard  
 Classification of the product : This product is not classified as a "hazardous preparation" according to European Community regulations

### 3 COMPOSITION / INFORMATION ON INGREDIENTS



PREPARATION :  
 Chemical nature : Aqueous solution of betaine monohydrate  
 Hazardous constituents : None

### 4 FIRST AID MEASURES

Inhalation : Not specifically applicable  
 Skin contact : Wash with soapy water  
 Eye contact : Immediately rinse with water for a prolonged period while holding the eyelids wide open  
 Ingestion : Rinse mouth out with water

### 5 FIRE-FIGHTING MEASURES

Suitable extinguishing media : Water spray  
 Foam  
 Dry powder  
 Carbon dioxide (CO2)  
 Unsuitable extinguishing media : None to our knowledge. If there is a fire close by, use suitable extinguishing agents

 	<h1>MATERIAL SAFETY DATA SHEET</h1>	Page : 2 / 4
		Version : 5
		Date : 13/2/2008
		Supersedes : 18/10/2007
<h2>THERMERA</h2>		1057200

### 6 ACCIDENTAL RELEASE MEASURES

Personal precautions :	Avoid contact with skin and eyes
Environmental precautions :	Do not allow product to spread into the environment
Clean up methods :	
- Recovery :	Absorb spillage with: - inert absorbent material.
- Cleaning/decontamination :	Wash non-recoverable remainder with large amounts of water
- Disposal :	Dispose of contaminated materials in accordance with current regulations

### 7 HANDLING AND STORAGE

HANDLING	
Technical measures :	Does not require any specific or particular measures
STORAGE	
Storage conditions :	
- Recommended :	Store : - the container tightly closed - in a cool, dry area. - away from direct sunlight
Packaging materials :	
- Recommended :	Original packaging

### 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal protection :	
- Hand protection :	Protective gloves made of rubber
- Eye protection :	Safety goggles

### 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical state :	Liquid
* Colour :	brown
Odour :	sweet
* pH value :	7 - 9
Specific temperatures :	
Melting point :	- 40 °C
Boiling point :	105 - 110 °C
Decomposition point :	> 110 °C
Flammability characteristics :	
Flash point :	Not applicable
Relative density, liquid (water=1) :	1050 - 1100 at 25 °C
Solubility :	
-in water :	Soluble
Octanol/water partition coefficient :	-3,1 (log Pow)

 	<h1>MATERIAL SAFETY DATA SHEET</h1>	Page : 3 / 4
		Version : 5
		Date : 13/2/2008
		Supersedes : 18/10/2007
<h2>THERMERA</h2>		1057200

### 10 STABILITY AND REACTIVITY

Stability : Stable at ambient temperature and under normal conditions of use

Hazardous reactions :

Conditions to avoid : Decomposes:  
- above 110 °C.

Materials to avoid : - acids

### 11 TOXICOLOGICAL INFORMATION

Acute toxicity : LD 50 oral (rat) : > 11000 mg/kg

Sensitization : Does not cause cutaneous sensitisation for guinea-pigs.

### 12 ECOLOGICAL INFORMATION

DEGRADABILITY:

Biodegradability : Readily biodegradable

BIOACCUMULATION:

Octanol/water partition coefficient : -3,1 (log Pow)  
Not potentially bioaccumulable.

ECOTOXICITY :

Effects on the aquatic environment : LC 50 (Fish) / 96 h : > 1000 mg/l

Effect on sewage treatment plant : Chemical oxygen demand (COD): 16,5 mg O2/g  
Biochemical oxygen demand (BOD)/5 days: 558 mg O2/g

### 13 DISPOSAL CONSIDERATIONS

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

### 14 TRANSPORT INFORMATION

INTERNATIONAL REGULATIONS :

RID/ADR/IMDG/IATA : Not restricted

NOTE : The above regulatory prescriptions are those valid on the date of publication of this sheet  
However, given the possible evolution of transport regulations for hazardous materials, in case the present sheet is dating back to more than 12 months ago, it would be advisable to check their validity with your commercial agency

### 15 REGULATORY INFORMATION



EC Labelling :

R Phrase(s) : No R phrase

S Phrase(s) : No S phrase

FURTHER REGULATIONS :

Germany : WGK (Water-endangerment class) : 1

 	<b>MATERIAL SAFETY DATA SHEET</b>	Page : 4 / 4
		Version : 5
		Date : 13/2/2008
		Supersedes : 18/10/2007
<b>THERMERA</b>		1057200

<b>15 REGULATORY INFORMATION</b>	<b>(continued)</b>
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NOTE : The regulatory information given in this part only indicate the principal regulations specifically applicable to the product described in the Safety Data Sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. The cited basic Community texts are being updated and transcribed in national law. Refer to all applicable national, international and local regulations or provisions.

<b>16 OTHER INFORMATION</b>
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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 annex II of the regulation (EC) 1907/2006 (REACH).

\* 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 mentionned 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.

**End of document**