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1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : TEMPER-10, -20, -25, -30, -40, -55
 Recommended uses : Heat transfer fluid
 SUPPLIER :
 Name : DEHON SERVICE
 Address : 26, Avenue du Petit Parc
 94683 VINCENNES cedex
 Telephone number : +33 (0)1 43 98 75 00
 Telefax number : +33(0)1 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 carboxylic acids salts and inhibitor agents
 Hazardous constituents : None

4 FIRST AID MEASURES

Inhalation : Move the affected person to the fresh air
 Skin contact : Wash with soapy water
 If case of redness or irritation, call a doctor
 Eye contact : Rinse immediately and thoroughly, pulling the eyelids well away from the eye (15 minutes minimum)
 If irritation persists, consult an eye specialist
 Ingestion : If the person is fully conscious, make him/her drink water. Never give an unconscious person anything to drink
 Do not induce vomiting.
 consult a doctor

5 FIRE-FIGHTING MEASURES

Suitable extinguishing media : Carbon dioxide (CO2)
 Foam
 Powders
 Unsuitable extinguishing media : None to our knowledge. If there is a fire close by, use suitable extinguishing agents
 Specific hazards : On heating or during combustion :

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5 FIRE-FIGHTING MEASURES	(continued)
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Specific fire fighting methods : Toxic vapours may be released
Do not attempt to fight the fire without suitable protective equipment

6 ACCIDENTAL RELEASE MEASURES

Personal precautions : Avoid contact with skin and eyes
 Environmental precautions : Contain the spilled material by bunding
 - Recovery : Recover the product with absorbent material
 - Cleaning/decontamination : Wash the floor with plenty 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
 Precautions : Avoid repeated or prolonged contact with the skin

STORAGE
 Technical measures : Does not require any specific or particular technical measures
 Storage conditions :
 - Recommended : Store :
 - the container tightly closed
 - in a well-ventilated area



Packaging materials :
 - Recommended : Original packaging

8 EXPOSURE CONTROLS / PERSONAL PROTECTION
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Engineering measures : Ensure good ventilation of the work station
 Personal protection :
 - Respiratory protection : If the ventilation is suitable, it is not essential to wear respiratory equipment
 - Hand protection : Protective gloves made of rubber or PVC
 - Eye protection : Safety goggles
 Industrial hygiene : Do not drink, eat or smoke in the workplace
 Always wash hands after handling the product

9 PHYSICAL AND CHEMICAL PROPERTIES

Physical state : Liquid
 Colour : Colourless
 Odour : none
 pH value : 8-9
 Specific temperatures :
 Melting point : Temper-10<-10°C, Temper-20<-20°C, Temper-30<-30°C, Temper-40<-40°C, Temper-55<-55°C
 Boiling point : 109 °C
 Flash point : None
 Density : 1.086-1.240 g/cm3
 Solubility :
 -in water : Complete

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9 PHYSICAL AND CHEMICAL PROPERTIES (continued)

- in organic solvents : Soluble in :
- glycerine
- alcohols
- glycol

10 STABILITY AND REACTIVITY

Stability : Stable at ambient temperature and under normal conditions of use
Hazardous reactions :
Hazardous decomposition products : On combustion or on thermal decomposition (pyrolysis) releases :
Carbon oxides (CO, CO₂)

11 TOXICOLOGICAL INFORMATION

Acute toxicity : LD 50 oral (Rat) : > 5000 mg/kg
Local effects : Repeated or prolonged contact may cause slight irritation to the skin or cracking
Other : May cause slight temporary irritation to ocular mucous membranes
The product has a bitter taste for safety reasons, in case it is swallowed accidentally

12 ECOLOGICAL INFORMATION



DEGRADABILITY:
* Biodegradability : Readily biodegradable
99 % biodegradation after 28 days (OECD 301A)
BIOACCUMULATION:
Bioconcentration factor. Not bioaccumulable.
ECOTOXICITY :
Effects on the aquatic environment : LC 50 (Fish : Onchorynchus mykiss) / 96 h : 13900 mg/l
The product does not have any known adverse effect on the tested aquatic organisms

13 DISPOSAL CONSIDERATIONS

WASTE FROM PRODUCT :
Destruction/Disposal : Dispose of in accordance with relevant local regulations
CONTAMINATED PACKAGING :
Destruction/Disposal : Destroy at an authorised 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 regulated
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

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15 REGULATORY INFORMATION

<p>EC Labelling :</p> <p>R Phrase(s) :</p> <p>S Phrase(s) :</p> <p>NOTE :</p>	<p>No R phrase</p> <p>No S phrase</p> <p>The regulatory information given in this part only indicate the principal regulations specifically applicable to the product described in the Safety Data Sheet. The cited basic Community texts are being updated and transcribed in national law. Refer to all applicable national, international and local regulations or provisions. The user's attention is drawn to the possible existence of additional provisions which complete these regulations.</p>
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16 OTHER INFORMATION

<p>* Further information:</p> <p>* Update :</p>	<p>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).</p> <p>Modifications are indicated by an asterisk (*)</p>
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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.

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