



MATERIAL SAFETY DATA SHEET

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Version : 3

Date : 14 / 4 / 2014

Supersedes : 29 / 11 / 2013

SOLRNETT**103105**

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

1.1. Product identifier

Product name : SOLRNETT

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

1.2.1 Relevant identified uses : Ready to use cleaning fluid for heat transfer fluid networks in thermal solar systems

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 (Netherlands) : +31 30 274 8888
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) : This product is not classified as a "hazardous preparation" according to European Community regulations

2.1.2 Directive EEC/67/548 or 1999/45/CE : This product is not classified as a "hazardous preparation" according to European Community regulations

2.2. Label elements

2.2.1 Labelling EC 1272/2008 (CLP) : None

2.3. Other hazards : Slightly irritating to eyes and skin

SECTION 3 Composition/information on ingredients

3.1./3.2. Substance / Preparation : Preparation

Substance name	Contents	CAS No	EC No	Index No	Ref REACH	Classification
2-aminoethanol	< 1 %	141-43-5	205-483-3	603-030-00-8	01-2119486455-28	Xn; R20/21/22 C; R34 Skin Corr. 1B; H314 Acute Tox. 4 (Dermal); H312 Acute Tox. 4 (Inhalation); H332 Acute Tox. 4 (Oral); H302

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SECTION 4 First aid measures

4.1. Description of first aid measures

- Inhalation** : In case of troubles :
Move the affected person to the fresh air
If symptoms persist call a doctor
- Skin contact** : Rinse with plenty of water
- 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** : Rinse mouth out with water
If the quantity swallowed is significant :
Seek medical advice (show the label where possible).

4.2. Most important symptoms and effects, both acute and delayed : Headaches
Dizziness

4.3. Indication of any immediate medical attention and special treatment needed : No information available

SECTION 5 Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray
Carbon dioxide (CO₂)
Foam

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 : On heating, may partially decompose, releasing combustible gases

5.3. Advice for firefighters : Do not breathe fumes
Do not attempt to fight the fire without suitable protective equipment

SECTION 6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures : Avoid contact with skin and eyes

6.2. Environmental precautions : Contain the spilled material by bunding
Do not allow product to spread into the environment

6.3. Methods and material for containment and cleaning up : Absorb non-recoverable liquid with:
- saw-dust or an inert absorbent material
- dry sand.
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"

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SECTION 7 Handling and storage
7.1. Precautions for safe handling
Technical measures : Does not require any specific or particular measures

Precautions : Avoid any direct contact with the product
 Work in a well-ventilated area

Industrial hygiene : Always wash hands after handling the product

7.2. Conditions for safe storage, including any incompatibilities
Storage conditions
- Recommended : Store :
 - protected from heat
 - protected from frost
 - in a well-ventilated area

Packaging materials
- Recommended : Coated steels
 Plastic materials

7.3. Specific end use(s) : No data

SECTION 8 Exposure controls/personal protection
8.1. Control parameters
8.1.1. Occupational Exposure Limits : 2-aminoethanol : USA (NIOSH) : REL - TWA (8h; mg/m³) : 8
 2-aminoethanol : USA (NIOSH) : REL - TWA (8h; ppm) : 3
 2-aminoethanol : USA (NIOSH) : REL - STEL (15min; mg/m³) : 15
 2-aminoethanol : USA (NIOSH) : REL - STEL (15min; ppm) : 6
 2-aminoethanol : France : LEP - VME (8h; mg/m³) : 2.5
 2-aminoethanol : France : LEP - VME (8h; ppm) : 1
 2-aminoethanol : France : LEP - VLE (15min; mg/m³) : 7.6
 2-aminoethanol : France : LEP - VLE (15min; ppm) : 3

Personal protection :
- Respiratory protection : No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation.
 If the occupational exposure limit is exceeded : Mask with A canister

- Hand protection : Neoprene protective gloves

- 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 : light yellow

9.1.b. Odour : Low

9.1.c. Odour threshold : No information available

 * **9.1.d. pH** : 10.8 (product as is)

9.1.e. Melting point / Freezing point : - 28°C

9.1.f. Initial boiling point - boiling range : > 100 °C

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SECTION 9 Physical and chemical properties (continued)

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 information available
9.1.l. Vapour density	: No information available
9.1.m. Relative density	
* 9.1.m. Density	: 0.975 g/cm ³ at 20 °C
9.1.n. Solubility	
-in water	: Complete
9.1.o. Partition coefficient : n-octanol / water	: No data
9.1.p. Auto-ignition temperature	: No data
9.1.q. Thermal decomposition	: No data
9.1.r. Viscosity	: No data
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	

SECTION 10 Stability and reactivity

10.1. Reactivity	: None under normal conditions
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	: Refer to the technical directions
10.5. Incompatible materials	: Strong acids Strong oxidizing agents
10.6. Hazardous decomposition products :	: On thermal decomposition (pyrolysis), releases : Carbon oxides (CO, CO ₂) Nitrogen oxides

SECTION 11 Toxicological information

11.1. Information on toxicological effects	
• Acute toxicity	
On ingredients	
2-aminoethanol	: Rat oral LD50 [mg/kg] : 1720 to 2740 : Rat dermal LD50 [mg/kg] : 1000
• Skin corrosion/irritation	: Repeated or prolonged contact may cause slight irritation to the skin
• Serious eye damage/irritation	: Slightly irritating to the eyes
• Respiratory or skin sensitisation	: No sensitizing effect is known
• Germ cell mutagenicity	: No information available
• Carcinogenicity	: No information available

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SECTION 11 Toxicological information (continued)

- Reproductive toxicity : No information available
- STOT-single exposure : No information available
- STOT-repeated exposure : No information available
- Aspiration hazard : No information available

SECTION 12 Ecological information

- 12.1. Toxicity : No information available
Do not allow the product, as is, to spread into the environment
- 12.2. Persistence and degradability : Readily biodegradable (results obtained on a similar product)
The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer
- 12.3. Bioaccumulative potential : No data
- 12.4. Mobility in soil : No data
- 12.5. Results of PBT and vPvB assessment : No data
- 12.6. Other adverse effects

SECTION 13 Disposal considerations

13.1. Waste treatment methods

WASTE FROM PRODUCT :

- Destruction/Disposal** : Conform to current legislation, regulations and orders
Do not allow product to spread into the environment Dispose of at a licensed waste collection center
Do not discharge into drains or waterways without neutralizing.

CONTAMINATED PACKAGING :

- Decontamination/cleaning** : Clean with water

- 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

- 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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SOLRNETT**103105****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.

France : Professional diseases(table(s) nr 49,49bis,84) : applicable

REGULATION EC No 648/2004 : Contains : < 5 % Non-ionic surfactants

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.

List of relevant R phrases (§ 3) : R20/21/22 : Harmful by inhalation, in contact with skin and if swallowed.
R34 : Causes burns.

List of relevant H phrases (Section 3) : H302 - Harmful if swallowed
H312 - Harmful in contact with skin
H314 - Causes severe skin burns and eye damage
H332 - Harmful if inhaled

*** Update** : All chapters have been modified since the previous version

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.

End of document**DEHON SERVICE**

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