1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identifier

Trade name : RHODASURF ON 877

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

Uses of the Substance/Mixture : Specific use(s): Dispersant agent, Emulsifier

Details of the supplier of the safety data sheet

Company : RHODIA Opérations
40 Rue de la Haie Coq
93306 Aubervilliers Cedex - France
Tel : +33 (0)1.53.56.50.00

Emergency telephone number : MULTI LINGUAL EMERGENCY NUMBER (24/7)
Europe/America/Africa : +44 1235 239 670 (UK)
Middle East & Africa speaking Arabic : +44 1235 239 671 (UK)
Asia Pacific : +65 3158 1074 (Singapore)
China : +86 10 5100 3039 (Beijing)

E-mail address : information.fds@eu.rhodia.com

2. HAZARDS IDENTIFICATION

Classification

Classification (67/548/EEC,1999/45/EC)

Xn: Harmful
Xi: Irritant

R22: Harmful if swallowed.
R41: Risk of serious damage to eyes.

Label elements

Hazardous products which must be listed on the label:

- Alcohols, C12-20, ethoxylated

Labelling according to EC Directives (67/548/EEC,1999/45/EC)

Pictogram :

Harmful

Symbol(s) : Xn Harmful

R-phrase(s) : R22 Harmful if swallowed.
R41 Risk of serious damage to eyes.

S-phrase(s) : S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S39 Wear eye/face protection.

Other hazards which do not result in classification

Does NOT present any particular fire hazard. On combustion, toxic gases are released. (following evaporation of water)
Hazardous reactions may occur on contact with certain chemicals. (Refer to the list of incompatible materials section 10: "Stability-Reactivity").
Toxic to aquatic organisms.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Chemical nature : Aqueous solution of
Fatty alcohol ethoxylates

Information on Components and Impurities

Chemical Name	Identification number	Classification 67/548/EEC	Classification REGULATION (EC) No 1272/2008	Concentration [%]
Alcohols, C12-20, ethoxylated	CAS-No. : 68526-94-3 self classification	Xi; R41 Xn; R22	H302 : Acute toxicity , Oral, Category 4 H318 : Serious eye damage , Category 1	>= 70 - < 80

For the full text of the R-phrases mentioned in this Section, see Section 16.
For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

Description of necessary first-aid measures

General advice : Show this safety data sheet to the doctor in attendance.
First aider needs to protect himself.
Place affected clothing in a sealed bag for subsequent decontamination.

Inhalation : Not applicable (aqueous liquid).

Skin contact : Remove contaminated clothing and shoes.
Wash off with plenty of water.

Eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Get immediate medical advice/ attention.

Ingestion : Do not give anything to drink.
Do NOT induce vomiting.
Obtain medical attention.

5. FIREFIGHTING MEASURES

Extinguishing media

Suitable extinguishing media	:	Extinguishing media - small fires Dry chemical Carbon dioxide (CO2) Extinguishing media - large fires Alcohol-resistant foam Polyvalent foam Water spray
Unsuitable extinguishing media	:	Do NOT use water jet.

Special hazards arising from the substance or mixture

Specific hazards during firefighting	:	Aqueous liquid. Does not present any particular risk in the event of a fire. Nevertheless, following the evaporation of water,the residue may burn: Liberates poisonous gas.

Advice for firefighters

Special protective equipment for firefighters	:	Self-contained breathing apparatus (EN 133) Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing
Specific fire fighting methods	:	Do not use a solid water stream as it may scatter and spread fire.
Further information	:	Standard procedure for chemical fires. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Avoid contact with eyes. Do not allow uncontrolled discharge of product into the environment. Stop the leak. Turn leaking containers leak-side up to prevent the escape of liquid. Personal protective equipment Wear suitable gloves. Eye/face protection Safety glasses Wear suitable protective clothing.
Environmental precautions	:	Contain the spilled material by bunding.

Methods for Cleaning or Taking Up

Recovery	:	Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). Use approved industrial vacuum cleaner for removal. Keep in properly labelled containers. Keep in suitable, closed containers for disposal.
Decontamination/cleaning	:	Wash non-recoverable remainder with large amounts of water. Clean contaminated surface thoroughly. Recover the cleaning water for subsequent disposal.
Disposal	:	Dispose of in accordance with local regulations.
Additional advice	:	Material can create slippery conditions.

7. HANDLING AND STORAGE

Handling

Technical measures	:	Does not require any specific or particular measures.
Advice on safe handling and usage	:	Handle in accordance with good industrial hygiene and safety practice. Comply with instructions for use.

Storage

Technical Measures for storage	:	Take all necessary measures to avoid accidental discharge of products into drains and waterways due to the rupture of containers or transfer systems. Caution : The stacking height must not exceed 3 pallets.

Storage conditions

Recommended	:	Stable under normal conditions. Keep in a dry, cool and well-ventilated place.
Incompatible products	:	Strong oxidizing agents Strong reducing agents.

Packaging Measures

Packaging conditions	:	Plastic container.
Packaging materials - Recommended	:	Plastic materials.
Packaging materials - To be avoided	:	Ordinary steel.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

Control measures

Engineering measures	:	Extract at emission point. Avoid splashes.

Personal protective equipment

Respiratory protection	:	Use a respirator with an approved filter if a risk assessment indicates this is necessary.
Hand protection	:	Glove material: Neoprene gloves For prolonged or repeated contact use protective gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Gloves must be inspected prior to use. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.
Eye protection	:	Safety goggles Face-shield
Skin and body protection	:	Full protective suit
Hygiene measures	:	Emergency equipment immediately accessible, with instructions for use. Ensure that eyewash stations and safety showers are close to the workstation location. Wash hands before breaks and immediately after handling the product. When using do not eat, drink or smoke. The user is responsible for monitoring the working environment in accordance with local laws and regulations.
Protective measures	:	The protective equipment must be selected in accordance with current CEN standards and in cooperation with the supplier of the protective equipment. Selection of appropriate personal protective equipment should be based on an evaluation of the performance characteristics of the protective equipment relative to the task(s) to be performed, conditions present, duration of use, and the potential hazards and/or risks that may occur during use.
General advice	:	Contain the spilled material by bunding.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form	:	viscous
Physical state	:	liquid
Colour	:	clear
Odour	:	slight

Odour Threshold	:	no data available

Safety data

pH	:	6.0 - 8.0 at 10 % (m/m) Aqueous solution
Freezing point	:	< 4 °C
Boiling point/boiling range	:	> 100 °C at 1,013.25 hPa
Flash point	:	> 93 °C closed cup
Flammability (solid, gas)	:	no data available
Autoignition temperature	:	no data available
Water solubility	:	soluble
Solubility in other solvents	:	no data available
Partition coefficient: n-octanol/water	:	no data available
Vapour pressure	:	< 31.33 hPa at 25 °C
Evaporation rate	:	no data available
Relative vapour density	:	no data available
Density	:	1.01 g/cm3 at 22 °C
Oxidation/Reduction Potential	:	no data available
Viscosity, dynamic	:	no data available
Viscosity, kinematic	:	no data available
Explosive properties	:	no data available
Thermal decomposition	:	no data available
Lower explosion limit	:	no data available
Upper explosion limit	:	no data available

10. STABILITY AND REACTIVITY

Chemical stability	:	Stable under normal conditions. Stable under recommended storage conditions.
Hazardous reactions		
Conditions to avoid	:	Heat, flames and sparks.
Materials to avoid	:	Strong oxidizing agents Strong reducing agents.

Decomposition products	:	On combustion or on thermal decomposition (following the evaporation of water) releases: (Carbon oxides (CO + CO2)).

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Acute oral toxicity	:	According to the data on the components Harmful if swallowed. Unpublished internal reports CESIO by calculation according to the conventional method
Acute inhalation toxicity	:	no data available
Acute dermal toxicity	:	no data available
Acute toxicity (other routes of administration)	:	no data available
Aspiration toxicity	:	no data available

Skin corrosion/irritation

Skin irritation	:	rabbit Mild skin irritation

Serious eye damage/eye irritation

Eye irritation	:	According to the data on the components Risk of serious damage to eyes. Unpublished internal reports CESIO by calculation according to the conventional method

Respiratory or skin sensitization

Sensitisation	:	no data available

Repeated dose toxicity

Repeated dose toxicity	:	no data available

STOT

STOT - single exposure	:	no data available
STOT - repeated exposure	:	no data available

Carcinogenicity

Carcinogenicity	:	Not classifiable as a human carcinogen.

Mutagenicity

Genotoxicity in vitro	:	no data available
Genotoxicity in vivo	:	no data available

Reproductive toxicity

Reproductive toxicity	:	no data available

12. ECOLOGICAL INFORMATION

Ecotoxicity assessment

Ecotoxicity assessment	:	According to the data on the components By analogy Toxic to aquatic organisms. Unpublished reports CESIO

Persistence and degradability

Biodegradability

Biodegradability	:	Ultimate aerobic biodegradability Readily biodegradable 94 % - 28 d Method: According to ISO 14593 method Unpublished internal reports undiluted product

Bioaccumulation

Partition coefficient: n-octanol/water	:	Not applicable Surface-Active

Mobility

Known distribution to environmental compartments	:	Ultimate destination of the product : Water Ultimate destination of the product : Sediment

Other adverse effects

Environment assessment	:	According to the data on the components By analogy Not classified as Dangerous for the Environment, according to EC criteria by calculation according to the conventional method

13. DISPOSAL CONSIDERATIONS

Product Disposal

Prohibition	:	Avoid release to the environment.

Advice on Disposal	:	Dispose of in accordance with local regulations.

Advice on cleaning and disposal of packaging

Measures for waste avoidance.	:	Do not dispose of the product at a rubbish tip.
Advice	:	Completely empty the packaging prior to decontamination. Carefully drain and then steam clean. The user's attention is drawn to the possible existence of local regulations regarding disposal.
Reason for waste disposal	:	Empty packaging Dispose of contents/ container to an approved waste disposal plant.
Other data	:	Dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION

ADR
not regulated

RID
not regulated

IMDG
not regulated

IATA
not regulated

ADN / ADNR
not regulated

Note: The above regulatory prescriptions are those valid on the date of publication of this sheet. Given the possible evolution of transport regulations for hazardous materials, it would be advisable to check their validity with your sales office.

15. REGULATORY INFORMATION

According to our knowledge, no specific regulatory information.

16. OTHER INFORMATION

Full text of R-phrases referred to under sections 2 and 3

R22	Harmful if swallowed.
R41	Risk of serious damage to eyes.

Full text of S-phrases referred to under sections 2 and 3

S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S39	Wear eye/face protection.

Full text of H-Statements referred to under sections 3 and 16.

H302	Harmful if swallowed.
H318	Causes serious eye damage.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. Such information is only given as a guidance to help the user handle, use, process, store, transport, dispose and release the product in satisfactory safety conditions and is not to be considered as a warranty or quality specification. It should be used in conjunction with technical sheets but do not replace them. Thus, the information only relates to the designated specific product and may not be applicable if such product is used in combination with other materials or in an other manufacturing process, unless otherwise specifically indicated. It does not release the user from ensuring he is in conformity with all regulations linked to its activity.