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

Product identifier

Trade name	:	RHODASURF AAE/10-E
Product number	:	27274-31-3

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

Uses of the Substance/Mixture	:	Industry sector: Manufacture of chemical products Specific use(s): Intermediate for synthesis

Details of the supplier of the safety data sheet

Company	:	RHODIA Italia S.p.a. Via Milano, 78/80 20021 Ospiate di Bollate - Milano - Italia Tel : +39.02.38.33.41
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 (REGULATION (EC) No 1272/2008)

Eye irritation, Category 2	H319: Causes serious eye irritation.

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

Xi: Irritant	R36: Irritating to eyes.

Label elements

Hazardous products which must be listed on the label:

- 27274-31-3 Allyl alcohol, ethoxylated

REGULATION (EC) No 1272/2008

Pictogram :

Signal word : Warning

Hazard statements : H319 Causes serious eye irritation.

Precautionary statements : **Prevention:**
P264 Wash skin thoroughly after handling.
P280 Wear protective gloves/ eye protection/ face protection.
Response:
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 If eye irritation persists: Get medical advice/ attention.

Other hazards

Does NOT present any particular fire hazard. On combustion, toxic gases are released. Hazardous reactions may occur on contact with certain chemicals. (Refer to the list of incompatible materials section 10: "Stability-Reactivity"). No specific hazard under normal conditions of use.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

CAS-No. : 27274-31-3

Information on Components and Impurities

Chemical Name	Index-No. CAS-No.	Classification 67/548/EEC	Classification REGULATION (EC) No 1272/2008	Concentration [%]
Allyl alcohol, ethoxylated	27274-31-3 self classification	Xi; R36	Eye Irrit. 2; H319	>= 99 - <= 100
allyl alcohol	603-015-00-6 107-18-6	R10 T; R23/24/25 Xi; R36/37/38 N; R50	Flam. Liq. 2; H225 Acute Tox. 3; H301 Acute Tox. 3; H311 Acute Tox. 3; H331 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335 Aquatic Acute 1; H400	< 1

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.

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

Eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
If eye irritation persists, consult a physician

Ingestion : Do NOT induce vomiting.
Rinse mouth with water.

5. FIRE-FIGHTING MEASURES

Extinguishing media

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

Unsuitable extinguishing media : High volume water jet

Special hazards arising from the substance or mixture

Specific hazards during fire fighting	:	Combustible. However, does not present any particular risk in the event of a fire. On combustion, toxic gases are released.

Advice for firefighters

Special protective equipment for fire-fighters	:	Self-contained breathing apparatus (EN 133) Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing
Specific fire fighting methods	:	Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Do not allow uncontrolled discharge of product into the environment. Personal protective equipment Wear suitable protective equipment. Safety glasses Wear suitable gloves. Stop the leak. Turn leaking containers leak-side up to prevent the escape of liquid.
Environmental precautions	:	Dam up. Do not let product enter drains.
Methods for Cleaning or Taking Up		
Recovery	:	Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Pump up the product into a spare container :- suitably labelled. Keep in suitable, closed containers for disposal.
Decontamination/cleaning	:	Wash off with plenty of water.
Disposal	:	Dispose of contents/ container to an approved waste disposal plant.
Additional advice	:	Material can create slippery conditions.

7. HANDLING AND STORAGE

Handling

Technical measures	:	No special protective measures against fire required.
Advice on safe handling and usage	:	Handle in accordance with good industrial hygiene and safety practice.

Storage

Technical Measures for storage	:	No special storage conditions required.
Storage conditions		
Recommended	:	Stable under normal conditions. Keep in a cool, well-ventilated place.
Incompatible products	:	Strong oxidizing agents Strong reducing agents.
Packaging Measures		
Packaging materials - Recommended	:	Plastic materials., Steel drum

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	Value type	Value	Update	Basis
allyl alcohol	TWA	2 ppm 4.8 mg/m3	2000-06-16	Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values
	Identifies the possibility of significant uptake through the skin, Indicative			
allyl alcohol	STEL	5 ppm 12.1 mg/m3	2000-06-16	Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values
	Identifies the possibility of significant uptake through the skin, Indicative			
allyl alcohol	TWA	2 ppm 4.8 mg/m3	2005-04-06	UK. EH40 WEL - Workplace Exposure Limits
	Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.			
allyl alcohol	STEL	4 ppm 9.7 mg/m3	2005-04-06	UK. EH40 WEL - Workplace Exposure Limits
	Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.			

Control measures

Engineering measures	:	Extract at emission point. Apply technical measures to comply with the occupational exposure limits. Maintain air concentrations below occupational exposure standards.

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 Protective index Class 6 Break through time: > 480 min Glove thickness: 1.8 mm The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. 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. Gloves must be inspected prior to use.
Eye protection	:	Safety glasses with side-shields
Skin and body protection	:	Protective suit Complete suit protecting against chemicals
Hygiene measures	:	Ensure that eyewash stations and safety showers are close to the workstation location. Use clean, well-maintained personal protection equipment. Wash hands before breaks and at the end of workday. When using do not eat, drink or smoke.
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	:	Dam up. Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form	:	no data available
Physical state	:	liquid
Colour	:	slightly yellow
Odour	:	very faint
Odour Threshold	:	no data available

Safety data

pH	:	6.0 - 8.0 at 5 % (m/v) Aqueous solution
Pour point	:	8 °C
Softening point	:	< 10 °C
Boiling point/boiling range	:	> 75 °C at 1,013 hPa
Flash point	:	> 100 °C closed cup
Flammability (solid, gas)	:	no data available
Autoignition temperature	:	no data available
Water solubility	:	soluble
Solubility in other solvents	:	organic polar solvents soluble Aromatic hydrocarbons soluble
Partition coefficient: n-octanol/water	:	log Pow: < 3 Structure-activity relationship (SAR)
Vapour pressure	:	< 0.0133 hPa at 25 °C
Evaporation rate	:	no data available
Relative vapour density	:	no data available

Density	:	ca. 1.09 g/cm3 at 20 °C
Relative density	:	0.84 at 25 °C
Oxidation/Reduction Potential	:	no data available
Viscosity, dynamic	:	230 mPa.s at 25 °C
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.
Hazardous reactions		
Materials to avoid	:	Strong oxidizing agents Strong reducing agents.
Decomposition products	:	On combustion or on thermal decomposition (pyrolysis) releases: (Carbon oxides (CO + CO2)).

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Acute oral toxicity	:	No information available.
Acute inhalation toxicity	:	no data available
Acute dermal toxicity	:	No information available.
Acute toxicity (other routes of administration)	:	no data available
Aspiration toxicity	:	no data available

Skin corrosion/irritation

Skin irritation	:	No information available.

Serious eye damage/eye irritation

Eye irritation	:	Irritating to eyes. No information available. internal evaluation

Respiratory or skin sensitization

Sensitisation	:	No information available.

Repeated dose toxicity

Repeated dose toxicity	:	No information available.

STOT

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

Carcinogenicity

Carcinogenicity	:	no data available

Mutagenicity

Genotoxicity in vitro	:	No information available.
Genotoxicity in vivo	:	No information available.

Reproductive toxicity

Reproductive toxicity	:	no data available

Experience with human exposure

Experience with human exposure : Inhalation	:	No information available.
Experience with human exposure : Ingestion	:	No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Ecotoxicity assessment

Ecotoxicity assessment	:	No information available.

M-Factor

allyl alcohol	:	M-Factor = 1 (according to the Globally Harmonized System (GHS) and the REGULATION (EC) No 1272/2008)

Persistence and degradability

Biodegradability

Biodegradability	:	Ultimate aerobic biodegradability Readily biodegradable By analogy Unpublished reports

Bioaccumulation

Partition coefficient: n-octanol/water	:	Not potentially bioaccumulable Structure-activity relationship (SAR)

Mobility

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

13. DISPOSAL CONSIDERATIONS

Product Disposal

Interdiction	:	Do not let product enter drains.
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.
Reason for waste disposal	:	Recycle following cleaning.
Other data	:	Dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION

ADR
not regulated

RID
not regulated

IMDG
not regulated

IATA
not regulated

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

16. OTHER INFORMATION

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

R10	Flammable.
R23/24/25	Toxic by inhalation, in contact with skin and if swallowed.
R36	Irritating to eyes.
R36/37/38	Irritating to eyes, respiratory system and skin.
R50	Very toxic to aquatic organisms.

Full text of H-Statements referred to under sections 2 and 3.

H225	Highly flammable liquid and vapour.
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.

Full text of P-Statements referred to under sections 2 and 3.

P264	Wash skin thoroughly after handling.
P280	Wear protective gloves/ eye protection/ face protection.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313	If eye irritation persists: Get medical advice/ attention.

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.