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

Product identifier

Trade name	:	ANTAROX FM 33
CAS-No.	:	68154-97-2

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): Wetting agent, Defoamer, Detergent, (For further information, refer to the product technical data sheet)

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)

Acute toxicity, Oral, Category 4	H302: Harmful if swallowed.
Serious eye damage, Category 1	H318: Causes serious eye damage.

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

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

Label elements

Hazardous products which must be listed on the label:

- 68154-97-2 Alcohols, C10-12, ethoxylated propoxylated

REGULATION (EC) No 1272/2008

Pictogram :

Signal word : Danger

Hazard statements : H302 Harmful if swallowed.
H318 Causes serious eye damage.

Precautionary statements : **Prevention:**
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
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.
P308 IF exposed or concerned:
P310 Immediately call a POISON CENTER or doctor/ physician.

Other hazards which do not result in classification

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").

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

CAS-No. : 68154-97-2

Information on Components and Impurities

Chemical Name	CAS-No.	Classification 67/548/EEC	Classification REGULATION (EC) No 1272/2008	Concentration [%]
Alcohols, C10-12, ethoxylated propoxylated	68154-97-2 self classification	Xn; R22 Xi; R41	Acute Tox. 4; H302 Eye Dam. 1; H318	>= 99 - <= 100

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
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. Get immediate medical advice/ attention.
Ingestion	:	Do NOT induce vomiting. Do not give anything to drink. Consult a physician if necessary.

5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media	:	Water spray Multi-purpose powders 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	:	Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing Wear self contained breathing apparatus for fire fighting if necessary.
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	:	Personal protective equipment Wear suitable gloves. Avoid contact with eyes. Safety glasses Wear suitable protective equipment. Stop the leak. Turn leaking containers leak-side up to prevent the escape of liquid. Do not allow uncontrolled discharge of product into the environment.
Environmental precautions	:	Dam up.
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). 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 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.

Storage

Technical Measures for storage	:	No special storage conditions required.
Storage conditions		
Recommended	:	Stable under normal conditions. Keep in a dry, cool and well-ventilated place.
Incompatible products	:	Strong oxidizing agents

Packaging Measures

Packaging materials - Recommended : Plastic materials (polyethylene).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

Control measures

Engineering measures : Extract at emission point.

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

Gloves must be inspected prior to use.
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.

Eye protection : Safety goggles
Face-shield

Skin and body protection : Protective suit
Complete suit protecting against chemicals

Hygiene measures	:	Emergency equipment immediately accessible, with instructions for use. Ensure that eyewash stations and safety showers are close to the workstation location. Use clean, well-maintained personal protection equipment. Smoking, eating and drinking should be prohibited in the application area. Wash hands after handling.
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.
Risk Management Measures to control aqueous release	:	Retain and dispose of contaminated wash water.
Risk Management Measures to control release to soil	:	Avoid subsoil penetration.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form	:	no data available
Physical state	:	liquid
Colour	:	colourless to pale yellow.
Odour	:	characteristic
Odour Threshold	:	no data available

Safety data

pH	:	6,0 - 7,5 at 1 % (m/v) Aqueous solution
Congealing point	:	< 0 °C
Boiling point/boiling range	:	> 200 °C
Flash point	:	> 100 °C closed cup
Flammability (solid, gas)	:	no data available

Autoignition temperature	:	no data available
Oxidizing properties	:	Not considered as oxidizing, Structure-activity relationship (SAR)
Water solubility	:	soluble
Solubility in other solvents	:	organic polar solvents soluble Aromatic hydrocarbons soluble
Partition coefficient: n-octanol/water	:	no data available
Vapour pressure	:	no data available
Evaporation rate	:	no data available
Relative vapour density	:	no data available
Density	:	ca. 1 g/cm3 at 20 °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.
Hazardous reactions		
Materials to avoid	:	Strong oxidizing agents
Decomposition products	:	On combustion or on thermal decomposition (pyrolysis) releases: (Carbon oxides (CO + CO2)).

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Acute oral toxicity	:	LD50 : 940 mg/kg - rat Harmful if swallowed. Unpublished internal reports
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	:	No skin irritation By analogy Unpublished reports

Serious eye damage/eye irritation

Eye irritation	:	rabbit Risk of serious damage to eyes. Severe eye irritation Unpublished internal reports

Respiratory or skin sensitization

Sensitisation	:	No information 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	:	no data available

Mutagenicity

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

Reproductive toxicity

Reproductive toxicity	:	no data available

12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Aquatic Compartment (including sediment)

Toxicity to daphnia and other aquatic invertebrates.	:	EC50 - 48 h : 12 mg/l - Daphnia magna (Water flea) Unpublished internal reports

Ecotoxicity assessment

Ecotoxicity assessment	:	Harmful to aquatic organisms.

Persistence and degradability

Biodegradability

Biodegradability	:	Ultimate aerobic biodegradability Readily biodegradable 93 % - 28 d Method: OECD Test Guideline 302 By analogy Unpublished internal reports

Bioaccumulation

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

Mobility

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

13. DISPOSAL CONSIDERATIONS

Product Disposal

Prohibition	:	Should not be released into the environment.

Advice on Disposal	:	Dispose of wastes in an approved waste disposal facility.

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. 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

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 H-Statements referred to under sections 2 and 3.

H302	Harmful if swallowed.
H318	Causes serious eye damage.

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

P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
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.
P308	IF exposed or concerned:
P310	Immediately call a POISON CENTER or doctor/ physician.

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.

NB: In this document the numerical separator of the thousands is the "." (point), the decimal separator is "," (comma).