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

Product identifier

Trade name : RHODAPEX ES STD

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

Uses of the Substance/Mixture : Specific use(s): Surfactants for various applications, (For further information, refer to the product technical data sheet)

Details of the supplier of the safety data sheet

Company : RHODIA INC;
8, Cedar Brook Drive;
NJ 08512 Cranbury;
United States;
Tel. : +1 609 860 4000;
Fax : +1 609 860 2241

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

Skin irritation, Category 2	H315: Causes skin irritation.
Serious eye damage, Category 1	H318: Causes serious eye damage.
Acute aquatic toxicity, Category 2	H401: Toxic to aquatic life.

Label elements

Hazardous products which must be listed on the label:

- 68585-34-2 Sodium alkyl C10-C16 ether sulphate
- 68002-97-1 Alcohols, C10-16, ethoxylated

Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

Pictogram :

Signal word : Danger

Hazard statements :

H315	Causes skin irritation.
H318	Causes serious eye damage.
H401	Toxic to aquatic life.

Precautionary statements :

General:
None.

Prevention:

P264	Wash skin thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear protective gloves/ eye protection/ face protection.

Response:

P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor/ physician.
P321	Specific treatment (see supplemental first aid instructions on this label).
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P362	Take off contaminated clothing and wash before reuse.

Storage:
None.

Disposal:

P501	Dispose of contents/ container to an approved waste disposal plant.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Chemical nature : Aqueous surfactant solution.

Information on Components and Impurities

Chemical Name	CAS-No.	Identification number	GHS Classification	Concentration [%]
Sodium alkyl C10-C16 ether sulphate	68585-34-2		H315 : Skin irritation, Category 2 H318 : Serious eye damage, Category 1 H401 : Acute aquatic toxicity, Category 2	>= 25 - < 30
Alcohols, C10-16, ethoxylated	68002-97-1		H318 : Serious eye damage, Category 1 H400 : Acute aquatic toxicity, Category 1	>= 1 - < 5
sodium chloride	7647-14-5		H303 : Acute toxicity, Oral, Category 5	>= 1 - < 5

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.
Do not leave the victim unattended.
First aider needs to protect himself.
Place affected clothing in a sealed bag for subsequent decontamination.

Inhalation : Remove to fresh air.

Skin contact : Take off contaminated clothing and shoes immediately.
Wash off immediately with plenty of water for at least 15 minutes.
Call a physician if irritation develops or persists.

Eye contact : Rinse with running water whilst keeping the eyes wide open (at least 15 minutes)
Get immediate medical advice/ attention.

Ingestion : Rinse mouth with water.
Do NOT induce vomiting.
Consult a physician if necessary.

5. FIREFIGHTING 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 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: On combustion, toxic gases are released.

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

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Avoid contact with the skin and the eyes. Wear suitable gloves. Eye/face protection Safety glasses Wear suitable protective clothing. Stop the leak. Turn leaking containers leak-side up to prevent the escape of liquid.
Environmental precautions	:	Prevent product from entering drains. Contain the spilled material by bunding.
Methods for Cleaning or Taking Up		
Recovery	:	Absorb the product onto porous material. Clean up promptly by sweeping or vacuum. Pick up and transfer to properly labelled containers. Keep in suitable, closed containers for disposal.
Decontamination/cleaning	:	Wash off with plenty of water. 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. Avoid contact with skin and eyes.

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.
Storage conditions		
Recommended	:	Stable under normal conditions. Keep container tightly closed. Keep in a dry, cool and well-ventilated place. Protect from frost. Keep away from heat.
Incompatible products	:	Strong acids Strong oxidizing agents Strong reducing agents.
Packaging Measures		
Packaging conditions	:	Store in original container.
Packaging materials - Recommended	:	Plastic materials.
Storage period	:	365 Days
Storage temperature	:	4 - 49 °C

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

We are not aware of any national exposure limit.

Control measures

Engineering measures	:	effective ventilation in all processing areas Avoid splashes. 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: Gloves 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	:	Ensure that eyewash stations and safety showers are close to the workstation location. Safety glasses In case of contact through splashing: Wear face-shield and protective suit.
Skin and body protection	:	Long sleeved clothing Protective suit Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Hygiene measures	:	Wash hands before eating, drinking, or smoking. Smoking, eating and drinking should be prohibited in the application area. Wash hands before breaks and immediately after handling the product.
Protective measures	:	Handle in accordance with good industrial hygiene and safety practice.
General advice	:	Prevent product from entering drains. 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	:	7.5 - 8.5 (10 %) Aqueous solution
Freezing point	:	< 0 °C
Boiling point/boiling range	:	100 °C
Flash point	:	> 93 °C closed cup
Flammability (solid, gas)	:	no data available

Autoignition temperature	:	no data available
Oxidizing properties	:	Non oxidizing material according to EC criteria
Water solubility	:	soluble
Solubility in other solvents	:	no data available
Partition coefficient: n-octanol/water	:	no data available
Vapour pressure	:	< 31.3 hPa (25 °C)
Evaporation rate	:	no data available
Relative vapour density	:	no data available
Density	:	1 g/cm3 (25 °C)
Oxidation/Reduction Potential	:	no data available
Viscosity, dynamic	:	< 100 mPa.s (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 at room temperature. Stable under normal conditions.
Hazardous reactions		
Conditions to avoid	:	Heat, flames and sparks.
Materials to avoid	:	Strong acids Strong oxidizing agents Strong reducing agents
Decomposition products	:	On combustion or on thermal decomposition (following the evaporation of water) releases: Carbon oxides Sulphur oxides On contact with acid releases: sulphuric acid

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Acute oral toxicity	:	Not classified as harmful if swallowed 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	:	Skin irritation By analogy Unpublished reports

Serious eye damage/eye irritation

Eye irritation	:	Risk of serious damage to eyes. Severe eye irritation By analogy Unpublished reports

Respiratory or skin sensitization

Sensitisation	:	Not classified as sensitising by skin contact Information given is based on data obtained from similar substances. Unpublished reports

Repeated dose toxicity

Repeated dose toxicity	:	Oral exposure 90 Days - rat NOAEL: 50 mg/kg/day Information given is based on data obtained from similar substances. Unpublished reports

STOT

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

Carcinogenicity

Carcinogenicity	:	no data available

Mutagenicity

Genotoxicity in vitro	:	Product is not considered to be genotoxic By analogy Unpublished reports
Genotoxicity in vivo	:	no data available

Reproductive toxicity

Reproductive toxicity	:	no data available
Developmental Toxicity / Teratogenicity	:	rat Oral exposure No effect observed on development Unpublished reports

12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Acute aquatic toxicity	:	Toxic to aquatic life., By analogy, Dry chemical, Unpublished reports

M-Factor

Alcohols, C10-16, ethoxylated
Acute aquatic toxicity = 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 internal reports

Bioaccumulation

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

Bioconcentration factor (BCF)	:	Not bioaccumulable By analogy Published data

Mobility

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

Other adverse effects

Environment assessment	:	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.
Reason for waste disposal	:	Recycle following cleaning. Destroy at an authorised site.
Other data	:	Dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION

ADR
not regulated

RID
not regulated

IMDG
not regulated

IATA
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

Following last version of regulations are applicable for the chemical classification, SDS and label:
-General Rule for classification and hazard communication of chemicals, GB 13690
-Series standards of Safety rules for classification, precautionary labeling and precautionary statements of chemicals (GB 20576~GB 20602)
-General rules for preparation of precautionary label for chemicals, GB 15258
-Safety data sheet for chemical products—Content and order of sections, GB/T 16483

16. OTHER INFORMATION

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

H303	May be harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H400	Very toxic to aquatic life.
H401	Toxic to aquatic life.

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

P264	Wash skin thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear protective gloves/ eye protection/ face protection.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor/ physician.
P321	Specific treatment (see supplemental first aid instructions on this label).
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P362	Take off contaminated clothing and wash before reuse.
P501	Dispose of contents/ container to an approved waste disposal plant.

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.