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

Product identifier

Trade name : GEROPON DOS PG

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

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

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

Xi: Irritant

R38: Irritating to skin.
R41: Risk of serious damage to eyes.

Label elements

Hazardous products which must be listed on the label:

- docusate sodium

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

Pictogram :

Irritant

Symbol(s) : Xi Irritant

R-phrase(s) : R38 Irritating to skin.
R41 Risk of serious damage to eyes.

S-phrase(s) : S24 Avoid contact with skin.
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

Harmful to aquatic organisms.
Does NOT present any particular fire hazard. On combustion, toxic gases are released. No specific hazard under normal conditions of use.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Chemical nature : Aqueous solution of
SODIUM DIALKYLSULPHOSUCCINATE

Information on Components and Impurities

Chemical Name	Identification number	Classification 67/548/EEC	Classification REGULATION (EC) No 1272/2008	Concentration [%]
docusate sodium	CAS-No. : 577-11-7 EINECS-No. : 209-406-4 self classification	Xi; R38 Xi; R41	H315 : Skin irritation , Category 2 H318 : Serious eye damage , Category 1	>= 60 - < 70
2-ethylhexan-1-ol	CAS-No. : 104-76-7 EINECS-No. : 203-234-3 self classification	Xi; R36 Xi; R38	H315 : Skin irritation , Category 2 H319 : Eye irritation , Category 2	>= 1 - < 3
propane-1,2-diol	CAS-No. : 57-55-6 EINECS-No. : 200-338-0 self classification	not classified	not classified :	> 10 - < 20

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 soap and plenty of water. Call a physician if irritation develops or persists.
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. Rinse mouth with water.

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: 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	:	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. Avoid contact with the skin and the eyes. Wear suitable gloves. Wear suitable protective clothing. Safety glasses
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.

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	:	Oxidizing agents

Packaging Measures

Packaging conditions	:	polyethylene containers
Packaging materials - Recommended	:	Plastic materials.
Packaging materials - To be avoided	:	Ordinary steel.
Storage period	:	12 Months

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

Control measures

Engineering measures	:	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	:	Neoprene gloves Where there is a risk of contact with hands, use appropriate 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	:	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. Use clean, well-maintained personal protection equipment. 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	:	clear
Physical state	:	liquid
Colour	:	colourless
Odour	:	very faint
Odour Threshold	:	no data available

Safety data

pH	:	5,0 - 7,0 at 5 % (m/v) Aqueous solution
Freezing point	:	< 0 °C
Boiling point/boiling range	:	ca. 100 °C
Flash point	:	not determined
Flammability (solid, gas)	:	no data available
Autoignition temperature	:	no data available
Oxidizing properties	:	No information available.
Water solubility	:	dispersible
Solubility in other solvents	:	organic polar solvents Dispersible with partial solubilisation 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. 1,09 g/cm3 at 20 °C
Oxidation/Reduction Potential	:	no data available
Viscosity, dynamic	:	ca. 135 mPa.s at 20 °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
Decomposition products	:	On combustion or on thermal decomposition (following the evaporation of water) releases: (Carbon oxides (CO + CO2)). Sulphur oxides

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Acute oral toxicity	:	According to the data on the components Not classified as harmful if swallowed Unpublished reports Published data by calculation according to the conventional method
Acute inhalation toxicity	:	no data available
Acute dermal toxicity	:	According to the data on the components Not classified as harmful by contact with skin Unpublished reports Published data by calculation according to the conventional method

Acute toxicity (other routes of administration)	:	no data available
Aspiration toxicity	:	no data available

Skin corrosion/irritation

Skin irritation	:	Irritating to skin. According to the data on the components Unpublished reports by calculation according to the conventional method

Serious eye damage/eye irritation

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

Respiratory or skin sensitization

Sensitisation

docusate sodium	:	Repeated Insult Patch Test Did not cause sensitization on laboratory animals. Test substance: Diluted product Unpublished reports
propane-1,2-diol	:	not sensitising

Repeated dose toxicity

Repeated dose toxicity

docusate sodium	:	Oral exposure 17.280 h - rat NOEL: 125 mg/kg Unpublished reports
propane-1,2-diol	:	Oral exposure 730 Days - rat NOEL: 2500 mg/kg Unpublished reports Oral exposure 24 Months - rat , males NOAEL: 1700 mg/kg Published data Oral exposure 24 Months - rat , females NOAEL: 2100 mg/kg Published data

STOT

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

Carcinogenicity

Carcinogenicity	:	no data available

Mutagenicity

Genotoxicity in vitro	:	No significant genotoxic potential was observed in tests performed on the components of the preparation Published data

Genotoxicity in vivo

propane-1,2-diol	:	In vivo tests did not show mutagenic effects Unpublished reports

Reproductive toxicity

Reproductive toxicity

docusate sodium	:	rat Oral exposure Unpublished reports no impairment of fertility has been observed
propane-1,2-diol	:	Fertility study 2 generations - mouse Oral exposure Fertility and developmental toxicity tests did not reveal any effect on reproduction.

Developmental Toxicity / Teratogenicity

docusate sodium	:	rat Application Route: Oral exposure Unpublished reports Foetal toxicity is not considered to be significant since it was only observed at doses which also caused maternal toxicity
propane-1,2-diol	:	rat Application Route: Oral exposure Did not show teratogenic effects in animal experiments. Published data mouse Application Route: Oral exposure Did not show teratogenic effects in animal experiments. Published data rabbit Application Route: Oral exposure Did not show teratogenic effects in animal experiments. Published data

12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Aquatic Compartment (including sediment)

Toxicity to fish

docusate sodium	:	LC50 - 96 h : 28 mg/l - Oncorhynchus mykiss (rainbow trout) Published data
propane-1,2-diol	:	LC50 - 96 h : 51.600 mg/l - Oncorhynchus mykiss (rainbow trout) Unpublished reports LC50 - 96 h : > 100 mg/l - Danio rerio (zebra fish) Unpublished reports

Toxicity to daphnia and other aquatic invertebrates.

docusate sodium	:	EC50 - 48 h : 36 mg/l - Daphnia magna (Water flea) Published data

Toxicity to aquatic plants

docusate sodium	:	EC50 - 72 h : 68 mg/l - Pseudokirchneriella subcapitata Published data

Ecotoxicity assessment

Ecotoxicity assessment

docusate sodium	:	Harmful to aquatic organisms.
2-ethylhexan-1-ol	:	Harmful to aquatic organisms. Unpublished reports
propane-1,2-diol	:	The product does not have any known adverse effects on the aquatic organisms tested Unpublished reports

Persistence and degradability

Biodegradability

Biodegradability

docusate sodium	:	Readily biodegradable Ultimate aerobic biodegradability 70 % - 28 d Method: OECD Guideline test type 310 Unpublished internal reports
2-ethylhexan-1-ol	:	Ultimate aerobic biodegradability Readily biodegradable 89 % - 28 d Method: OECD Test Guideline 301 Published data
propane-1,2-diol	:	Ultimate aerobic biodegradability Readily biodegradable 90 % - 28 d Published data
Ratio BOD/ThBOD	:	no data available

Bioaccumulation

Bioconcentration factor (BCF)

docusate sodium	:	Bioconcentration factor (BCF): < 9,3 Published data Not bioaccumulable

Mobility

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

Other adverse effects

Environment assessment	:	Not classified as Dangerous for the Environment, according to EC criteria

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

Other regulations	:	The surfactant(s) contained in this mixture 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.

16. OTHER INFORMATION

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

R36	Irritating to eyes.
R38	Irritating to skin.
R41	Risk of serious damage to eyes.

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

S24	Avoid contact with skin.
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.

H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.

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

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.