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

Product identifier

Trade name : MACKANATE CP

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

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

Details of the supplier of the safety data sheet

Company : Rhodia UK Ltd
Burrwood Way
Holywell Green
Halifax
HX4 9BH
England
Tel: +441422312200
Fax: +441422312222

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

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.
S37/39 Wear suitable gloves and eye/face protection.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Information on Components and Impurities

Chemical Name	Identification number	Classification 67/548/EEC	Classification REGULATION (EC) No 1272/2008	Concentration [%]
Butanedioic acid, sulfo-, C-(2-coco amido-1-methylethyl) esters, disodium salts	CAS-No. : 68515-65-1 EINECS-No. : 271-102-2 self classification	Xi; R38 Xi; R41	H315 : Skin irritation , Category 2 H318 : Serious eye damage , Category 1	>= 25 - < 30
trisodium sulphonatosuccinate	CAS-No. : 13419-59-5 EINECS-No. : 236-524-3 self classification	Xi; R38 Xi; R41	H315 : Skin irritation , Category 2 H318 : Serious eye damage , Category 1	>= 1 - < 3

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.
Wash immediately and thoroughly for a prolonged period (at least 15 minutes).
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	:	The product is not flammable. Carbon dioxide (CO2) Dry powder Water spray
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: with the release of toxic gas.

Advice for firefighters

Special protective equipment for firefighters	:	Wear self contained breathing apparatus for fire fighting if necessary. Use personal protective equipment.
Further information	:	Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Avoid contact with the skin and the eyes. Wear suitable protective equipment. Wear suitable gloves. Tightly fitting safety goggles Stop the leak. Turn leaking containers leak-side up to prevent the escape of liquid. For further information refer to section 8 "Exposure controls/personal protection".
Environmental precautions	:	Contain the spilled material by bunding. Try to prevent the material from entering drains or water courses.

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). Wash off with plenty of water.
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

Advice on safe handling and usage	:	Avoid splashes. Handle in accordance with good industrial hygiene and safety practice.

Storage

Technical Measures for storage	:	Store at room temperature in the original container.
Storage conditions		
Recommended	:	Stable under normal conditions. Keep in a well-ventilated place. Keep away from heat and sources of ignition.
To be avoided	:	Keep away from incompatible materials to be indicated by the manufacturer
Incompatible products	:	Do not mix with incompatible materials (See list section 10).
Packaging Measures		
Packaging materials - Recommended	:	Plastic drum, Plastic materials.
Packaging materials - To be avoided	:	Uncoated metals
Storage temperature	:	4 - 40 °C

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

Control measures

Engineering measures	:	Avoid splashes.

Personal protective equipment

Respiratory protection	:	Use a respirator with an approved filter if a risk assessment indicates this is necessary.

Hand protection	:	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. 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. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
Eye protection	:	Safety glasses In case of contact through splashing: Wear face-shield and protective suit.
Skin and body protection	:	Choose body protection according to the amount and concentration of the dangerous substance at the work place. Remove and wash contaminated clothing.
Hygiene measures	:	Emergency equipment immediately accessible, with instructions for use. Ensure that eyewash stations and safety showers are close to the workstation location. Regular cleaning of equipment, work area and clothing. Use clean, well-maintained personal protection equipment. Store personal protection equipment in a clean location away from the work area. Contaminated work clothing should not be allowed out of the workplace. Before reuse, thoroughly clean personal protection equipment Wash hands before breaks and immediately after handling the product. Shower or bathe at the end of working. 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	:	Contain the spilled material by bunding. Try to prevent the material from entering drains or water courses.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form	:	Aqueous solution
Physical state	:	liquid
Colour	:	light yellow
Odour	:	slight
Odour Threshold	:	no data available

Safety data

pH	:	5.0 - 7.0 (25 °C) (undiluted)
Melting point/range	:	no data available
Boiling point/boiling range	:	ca. 100 °C
Flash point	:	Not applicable (aqueous liquid).
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	:	no data available
Evaporation rate	:	no data available
Relative vapour density	:	> 1
Density	:	no data available
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		
Conditions to avoid	:	Avoid excessive heat for prolonged periods of time.
Materials to avoid	:	Strong acids Strong bases Strong oxidizing agents Strong reducing agents

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

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Acute oral toxicity	:	Not classified as harmful if swallowed
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	:	Irritating to skin. According to the data on the components According to the classification criteria for mixtures.

Serious eye damage/eye irritation

Eye irritation	:	Risk of serious damage to eyes. According to the data on the components According to the classification criteria for mixtures.

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	:	no data available

Mutagenicity

Genotoxicity in vitro	:	no data available

Genotoxicity in vivo : no data available

Reproductive toxicity

Reproductive toxicity : no data available

12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Ecotoxicity assessment

Acute aquatic toxicity : no data available

Chronic aquatic toxicity : no data available

Persistence and degradability

Biodegradability

Biodegradability : Biodegradable.

Bioaccumulation

Bioconcentration factor (BCF) : no data available

Other adverse effects

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

13. DISPOSAL CONSIDERATIONS

Product Disposal

Prohibition : Should not be released into the environment.

Advice on Disposal : Dispose of in accordance with local regulations.
Dispose of as hazardous waste in compliance with local and national 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 : Reuse or recycle following washing.

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

Classification

Classification (REGULATION (EC) No 1272/2008)

Skin irritation, Category 2	H315: Causes skin irritation.
Serious eye damage, Category 1	H318: Causes serious eye damage.

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

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.
S37/39	Wear suitable gloves and eye/face protection.

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

H315	Causes skin irritation.
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.