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

**Product identifier**

| | | |
|---|---|---|
| Trade name | : | MIRANATE B |

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

| | | |
|---|---|---|
| Uses of the Substance/Mixture | : | Specific use(s): Surfactants for various applications, Surfactants used in cosmetics |

**Details of the supplier of the safety data sheet**

| | | |
|---|---|---|
| Company | : | RHODIA Opérations<br>40 Rue de la Haie Coq<br>93306 Aubervilliers Cedex - France<br>Tel : +33 (0)1.53.56.50.00 |
| Emergency telephone number | : | MULTI LINGUAL EMERGENCY NUMBER (24/7)<br>Europe/America/Africa : +44 1235 239 670 (UK)<br>Middle East/Africa speaking Arabic : +44 1235 239 671 (UK)<br>Asia Pacific : +65 3158 1074 (Singapore)<br>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)**

Not a hazardous substance or mixture according to EC-directives 67/548/EEC or 1999/45/EC.

**Label elements**

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

| | | |
|---|---|---|
| Supplemental label elements for certain mixtures | : | Safety data sheet available on request for professional users. |

**Other hazards which do not result in classification**

Slightly irritating to eyes.
Does NOT present any particular fire hazard. On combustion, toxic gases are released. (following evaporation of water)
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

**Mixture**

Chemical nature : mixture based on
Sodium (2-butoxyethoxy)acetate

**Information on Components and Impurities**

| Chemical Name | Identification number | Classification 67/548/EEC | Classification REGULATION (EC) No 1272/2008 | Concentration [%] |
|---|---|---|---|---|
| 2-butoxyethanol | Index-No. : 603-014-00-0<br>CAS-No. : 111-76-2 | Xn; R20/21/22<br>Xi; R36/38 | H302 : Acute toxicity , Category 4<br>H311 : Acute toxicity , Category 3<br>H331 : Acute toxicity , Category 3<br>H315 : Skin irritation , Category 2<br>H319 : Eye irritation , Category 2 | >= 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.

Inhalation : not applicable

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

Eye contact : Rinse with running water whilst keeping the eyes wide open (at least 15 minutes)

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

## 5. FIREFIGHTING MEASURES

**Extinguishing media**

Suitable extinguishing media : Water spray
Foam
Multi-purpose powders
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:

with the release of toxic gas.

**Advice for firefighters**

| | | |
|---|---|---|
| Special protective equipment for firefighters | : | Self-contained breathing apparatus (EN 133)<br>Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing |
| 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.<br>Do not allow uncontrolled discharge of product into the environment.<br>Personal protective equipment<br>Wear suitable protective clothing.<br>Wear suitable gloves.<br>Safety glasses<br>Stop the leak. Turn leaking containers leak-side up to prevent the escape of liquid. |
| Environmental precautions | : | Do not let product enter drains.<br>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).<br>Keep in suitable, closed containers for disposal. |
| Decontamination/cleaning | : | Wash off with plenty of water.<br>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.

Storage conditions

Recommended : Stable under normal conditions.

Keep container tightly closed.
Keep in a dry, cool and well-ventilated place.
Keep away from incompatible materials to be indicated by the manufacturer

Incompatible products : Strong oxidizing agents

Packaging Measures

Packaging conditions : Keep only in the original container.

Packaging materials - Recommended : Coated steels.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Components with workplace control parameters**

| Components | Value type | Value | Update | Basis |
|---|---|---|---|---|
| 2-butoxyethanol | TWA | 20 ppm<br>98 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 | | | |
| 2-butoxyethanol | STEL | 50 ppm<br>246 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 | | | |

**Control measures**

Engineering measures : Provide adequate ventilation.
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 | : | Where there is a risk of contact with hands, use appropriate gloves<br>Gloves must be inspected prior to use.<br>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 glasses |
| Skin and body protection | : | Protective suit<br><br>Choose body protection according to the amount and concentration of the dangerous substance at the work place. |
| Hygiene measures | : | Ensure that eyewash stations and safety showers are close to the workstation location.<br>Use clean, well-maintained personal protection equipment.<br>Smoking, eating and drinking should be prohibited in the application area.<br>Wash hands before breaks and at the end of workday. |
| 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 | : | Do not let product enter drains.<br>Dam up. |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance**

| | | |
|---|---|---|
| Form | : | viscous |
| Physical state | : | liquid |
| Colour | : | colourless to pale yellow. |
| Odour | : | very faint |
| Odour Threshold | : | no data available |

**Safety data**

| | | |
|---|---|---|
| pH | : | 9,5 |
| Melting point/range | : | no data available |
| Boiling point/boiling range | : | ca. 100 °C |
| Flash point | : | > 100 °C<br>closed cup |
| Flammability (solid, gas) | : | no data available |

| | | |
|---|---|---|
| Autoignition temperature | : | no data available |
| Oxidizing properties | : | Non oxidizing material according to EC criteria |
| Water solubility | : | completely miscible |
| Solubility in other solvents | : | common organic solvents<br>insoluble<br><br>common organic solvents<br>partly 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. 1,1 g/cm3 |
| 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 (following the evaporation of water) releases:<br>(Carbon oxides (CO + CO2)). |

## 11. TOXICOLOGICAL INFORMATION

**Acute toxicity**

| | | |
|---|---|---|
| Acute oral toxicity | : | LD50 : 16.280 mg/kg - mouse<br>Not classified as harmful if swallowed<br>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 | : | rabbit<br>No skin irritation<br>Unpublished internal reports |

**Serious eye damage/eye irritation**

| | | |
|---|---|---|
| Eye irritation | : | No eye irritation<br>Slightly irritating to rabbits on ocular application.<br>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 : > 100 mg/l - Daphnia magna (Water flea)<br>Unpublished internal reports |

**Ecotoxicity assessment**

| | | |
|---|---|---|
| Acute aquatic toxicity | : | The product does not have any known adverse effects on the aquatic organisms tested<br>Unpublished internal reports |

**Persistence and degradability**

**Biodegradability**

| | | |
|---|---|---|
| Biodegradability | : | Ultimate aerobic biodegradability<br>Readily biodegradable<br>According to the data on the components<br>internal evaluation<br>Unpublished reports |

**Bioaccumulation**

| | | |
|---|---|---|
| Bioconcentration factor (BCF) | : | According to the data on the components<br>Not bioaccumulable.<br>Unpublished internal reports<br>Structure-activity relationship (SAR) |

**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 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.<br>Carefully drain and then steam clean. |
| Reason for waste disposal | : | Recycle following cleaning.<br>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

According to our knowledge, no specific regulatory information.

## 16. OTHER INFORMATION

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

| | |
|---|---|
| R20/21/22 | Harmful by inhalation, in contact with skin and if swallowed. |
| R36/38 | Irritating to eyes and skin. |

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

| | |
|---|---|
| H302 | Harmful if swallowed. |
| H311 | Toxic in contact with skin. |
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H331 | Toxic if inhaled. |

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.