

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

PRODUCT NAME: SYNPERONIC 91/8

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2. COMPOSITION/INFORMATION ON INGREDIENTS

PRODUCT DESCRIPTION

Fatty alcohol ethoxylate

| HAZARDOUS INGREDIENT(S) | CAS No. | % (w/w) | Symbol | R Phrases |
|--------------------------|---------|------------|--------|-----------|
| Fatty alcohol ethoxylate | - | 100 | Xn | R22 R41 |

3. HAZARDS IDENTIFICATION

This product has been assessed in accordance with the CESIO recommendations for the classification and labelling of surfactants (1999).

Harmful if swallowed.

Risk of serious damage to eyes.

4. FIRST-AID MEASURES

- Inhalation: Remove patient from exposure, keep warm and at rest.
Obtain medical attention if ill effects occur.
- Skin Contact: Remove contaminated clothing.
Wash skin with water.
If symptoms (irritation or blistering) occur obtain medical attention.
- Eye Contact: Immediately irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 10 minutes.
Obtain immediate medical attention.
- Ingestion: Do not induce vomiting.
Wash out mouth with water and give 200-300 ml (half a pint) of water to drink.
Obtain immediate medical attention.
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Further Medical Treatment

Symptomatic treatment and supportive therapy as indicated.

5. FIRE-FIGHTING MEASURES

Low fire hazard.

Unlikely to ignite except in high heat flux conditions.

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| Extinguishing Media: | As appropriate for surrounding materials/equipment. Use water with care to avoid possible violent production of steam. |
| Fire Fighting Protective Equipment: | A self contained breathing apparatus and suitable protective clothing should be worn in fire conditions. |

6. ACCIDENTAL RELEASE MEASURES

Do not allow to enter drains, sewers or watercourses.

Adsorb spillages onto sand, earth or any suitable adsorbent material.

Transfer to a container for disposal.

Wash the spillage area with water.

Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body.

7. HANDLING AND STORAGE

7.1 HANDLING

Avoid contact with eyes.

Avoid inhalation of high concentrations of mists.

7.2 STORAGE

Suitable containers: mild steel, stainless steel

Unsuitable containers: cast iron

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| Storage Temperature: | approx 20 Deg C approx 35 Deg C (molten) |
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|---------------|--|
| Storage Life: | 1 year(s) at 20 Deg C 6 month(s) (molten) |
|---------------|--|

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye Protection: Wear eye/face protection.

Occupational Exposure Limits

| HAZARDOUS INGREDIENT(S) | LTEL 8hr ppm | TWA mg/m³ | STEL ppm | STEL mg/m³ | Notes |
|---|-------------------------|---------------------------------|---------------------|----------------------------------|--------------|
| No Occupational Exposure Limit Assigned | | | | | |

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9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|------------------------------------|--------------------------------------|
| Form: | liquid / paste |
| Colour: | colourless / white |
| Odour: | mild |
| Odour Threshold (ppm): | No data. |
| pH (Value): | 6.2 (1% aqueous solution) |
| Boiling Point (Deg C): | No data. |
| Melting Point (Deg C): | 20 |
| Flash Point (Deg C): | 208 (open cup) No data. (closed cup) |
| Flammable Limits: | No data. |
| Auto Ignition Temperature (Deg C): | 395 |
| Explosive Properties: | No data. |
| Oxidising Properties: | No data. |
| Vapour Pressure (Pascals): | approx at 20 Deg C |
| Density (g/ml): | <130 approx at 20 Deg C |
| Solubility (Water): | soluble |
| Solubility (Other): | No data. |
| Partition Coefficient: | No data. |
| Pour Point (Deg C): | 20.5 |
| Cloud Point (Deg C): | 83 (1% aqueous solution) |
| Specific Gravity: | No data. |
| Viscosity (mPa.s): | 23.2 at 50 Deg C |

10. STABILITY AND REACTIVITY

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|-------------------------------------|--|
| Hazardous Reactions: | Incompatible materials: strong oxidising agents, strong acids, alkalis |
| Hazardous Decomposition Product(s): | None known |

11. TOXICOLOGICAL INFORMATION

This product has been assessed in accordance with the CESIO recommendations for the classification and labelling of surfactants (1999).

Inhalation

Unlikely to be hazardous by inhalation unless present as an aerosol.
High concentrations of mist may be irritant to the upper respiratory tract.

Skin Contact

Non-irritant following a single application to rabbit skin.
Unlikely to cause skin irritation.

Eye Contact

Risk of serious damage to eyes.
Severe/very severe irritant to rabbit eyes causing practically no initial pain.

Ingestion

Harmful if swallowed.
Oral Median Lethal Dose approx 2000 mg/kg (rat).

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Long Term Exposure

No information available.

12. ECOLOGICAL INFORMATION

Environmental Fate and Distribution

The product is soluble in water.

Persistence and Degradation

Biological Oxygen Demand (BOD 28 DAY/COD) (OECD 301C) 56%

Dissolved Organic Carbon Removal (DOC removal) (OECD 301C) 80%

Biodegradability (Wickbold) 100% (Bismuth active substance)

Biodegradability (porous pot) 97% (Bismuth active substance)

Biodegradability (OECD 301B) 10mg/l 81%

Biodegradability (OECD 301B) 20 mg/l 82%

This surfactant complies with the minimum 80% biodegradability requirement of the EEC non-ionics directive 82/242.

Toxicity

LC50 (rainbow trout) (96 hour) (semi-static) 23.7mg/l

EC50 (Daphnia magna) (48 hour) (static) 13.4 mg/l

WGK number

WGK 2 (VwVwS)

Effect on Effluent Treatment

The substance is anticipated to be substantially removed in biological treatment processes.

13. DISPOSAL CONSIDERATIONS

Disposal should be in accordance with local, state or national legislation.

14. TRANSPORT INFORMATION

Not Classified as Hazardous for Transport.

15. REGULATORY INFORMATION

EC Classification: HARMFUL

Hazard Symbol: Xn

Risk Phrases: R22: Harmful if swallowed.

R41: Risk of serious damage to eyes.

Safety Phrases: S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S39: Wear eye/face protection.

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16. OTHER INFORMATION

This data sheet was prepared in accordance with Directive 93/112/EC.

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