

SAFETY DATA SHEET

According to Regulations (EC) No 2015/830 and (EC) No 1907/2006

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: **FLOPAM™ EM 440 LH**

Type of product: Mixture.

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

Identified uses: Processing aid for industrial applications.

Uses advised against: None.

1.3. Details of the supplier of the safety data sheet

Company: SNF (UK) Limited
Solutions House, Ripley Close
Normanton WF6 1TB
United Kingdom

Telephone: 01924-311000

Telefax: 01924-311099

E-mail address: sds@snf.fr

1.4. Emergency telephone number

24-hour emergency number: +33 477 36 87 25

National Poison Information Service: NHS Direct: 0845 4647 or 111 (24/24, 7/7); Scotland: NHS 24 - 08454 24 24 24 (24/24, 7/7)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) 1272/2008:

Not classified.

2.2. Label elements

Labelling according to Regulation (EC) 1272/2008:

Hazard pictogram(s): None.

Signal word: None.

Hazard statement(s): None.
Precautionary statement(s): None.
Additional elements: EUH210 - Safety data sheet available on request

2.3. Other hazards

Spills produce extremely slippery surfaces.

PBT and vPvB assessment:
Does not fulfill the criteria according to Annex XIII of REACH.

For explanation of abbreviations see Section 16.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable, this product is not a substance.

3.2 Mixtures

Hazardous components

Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Concentration/ -range: 20 - 30%
ECHA List Number: 920-107-4
(Assigned to substances without a CAS N° or other numerical identifier.)
REACH Registration Number: 01-2119453414-43-XXXX
Classification according to Regulation (EC) No.1272/2008: Asp. Tox. 1;H304

Notes

Does not result in classification of the mixture if the kinematic viscosity is greater than 20.5 mm²/s measured at 40°C.

Isotridecanol, ethoxylated

Concentration/ -range: < 5%
EC-No.: Polymer
REACH Registration Number: Not applicable (polymer).
Classification according to Regulation (EC) No.1272/2008: Acute Tox. 4;H302, Eye Dam. 1;H318

For explanation of abbreviations see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:

Move to fresh air. No hazards which require special first aid measures.

Skin contact:

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. In case of persistent skin irritation, consult a physician.

Eye contact:

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention immediately.

Ingestion:

Rinse mouth with water. Do NOT induce vomiting. Call a physician or poison control centre immediately.

4.2. Most important symptoms and effects, both acute and delayed

None under normal use.

4.3. Indication of any immediate medical attention and special treatment needed.

None reasonably foreseeable.

Other information:

None.

SECTION 5: Fire-fighting measures*5.1. Extinguishing media**Suitable extinguishing media:*

Water. Water spray. Foam. Carbon dioxide (CO₂). Dry powder.

Unsuitable extinguishing media:

None.

*5.2. Special hazards arising from the substance or mixture**Hazardous decomposition products:*

Ammonia. Carbon oxides (CO_x). Nitrogen oxides (NO_x). Hydrogen chloride. Hydrogen cyanide (hydrocyanic acid) may be produced in the event of combustion in an oxygen deficient atmosphere.

*5.3. Advice for fire-fighters**Protective measures:*

Wear self-contained breathing apparatus and protective suit.

Other information:

Spills produce extremely slippery surfaces.

SECTION 6: Accidental release measures*6.1. Personal precautions, protective equipment and emergency procedures**Personal precautions:*

Do not touch or walk through spilled material. Spills produce extremely slippery surfaces.

Protective equipment:

Wear adequate personal protective equipment (see Section 8 Exposure Controls/Personal Protection).

Emergency procedures:

Keep people away from spill/leak.

6.2. Environmental precautions

Do not contaminate water.

*6.3. Methods and material for containment and cleaning up**Small spills:*

Do not flush with water. Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal.

Large spills:

Do not flush with water. Dam up. Clean up promptly by scoop or vacuum.

Residues:

Soak up with inert absorbent material. After cleaning, flush away traces with water.

6.4. Reference to other sections

SECTION 7: Handling and storage; SECTION 8: Exposure controls/personal protection; SECTION 13: Disposal considerations;

SECTION 7: Handling and storage*7.1. Precautions for safe handling*

Avoid contact with skin and eyes. Renders surfaces extremely slippery when spilled. When using, do not eat, drink or smoke.

7.2. Conditions for safe storage, including any incompatibilities.

Keep away from heat and sources of ignition. Freezing will affect the physical condition and may damage the material. Incompatible with oxidizing agents.

7.3. Specific end use(s)

None.

SECTION 8. Exposure controls/personal protection*8.1. Control parameters**National occupational exposure limits:*

None.

Derived No and Minimum Effect Levels (DNELs/DMELs)

None known.

*Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, < 2% aromatics**Isotridecanol, ethoxylated*

Predicted no-effect concentrations (PNECs)

None known.

8.2. Exposure controls

Appropriate engineering controls:

Ensure adequate ventilation, especially in confined areas. Use local exhaust if misting occurs. Natural ventilation is adequate in absence of mists.

Individual protection measures, such as personal protective equipment:*a) Eye/face protection:*

Safety glasses with side-shields.

b) Skin protection:

Wear coveralls and/or chemical apron and rubber footwear where physical contact can occur.

i) Hand protection:

PVC or other plastic material gloves.

c) Respiratory protection:

No personal respiratory protective equipment normally required.

d) Additional advice:

Wash hands and face before breaks and immediately after handling the product. Wash hands before breaks and at the end of workday.

Environmental exposure controls:

Do not allow uncontrolled discharge of product into the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

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| <i>a) Appearance:</i> | Viscous liquid, Milky. |
| <i>b) Odour:</i> | Aliphatic. |
| <i>c) Odour Threshold:</i> | No data available. |
| <i>d) pH:</i> | 4 - 6 @ 5 g/L |
| <i>e) Melting point/freezing point:</i> | < 5°C |
| <i>f) Initial boiling point and boiling range:</i> | > 100°C |
| <i>g) Flash point:</i> | Does not flash. |
| <i>h) Evaporation rate:</i> | No data available. |
| <i>i) Flammability (solid, gas):</i> | Not applicable. |
| <i>j) Upper/lower flammability or explosive limits:</i> | Not expected to create explosive atmospheres. |
| <i>k) Vapour pressure:</i> | 2.3 kPa @ 20°C |

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| l) Vapour density: | 0.804 g/litre @ 20°C |
| m) Relative density: | 1.0 - 1.1 |
| n) Solubility(ies): | Completely miscible. |
| o) Partition coefficient: | Not applicable. |
| p) Autoignition temperature: | Not applicable. |
| q) Decomposition temperature: | > 150°C |
| r) Viscosity: | > 20.5 mm ² /s @ 40°C |
| s) Explosive properties: | Not expected to be explosive based on the chemical structure. |
| t) Oxidizing properties: | Not expected to be oxidising based on the chemical structure. |

9.2. Other information

None.

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under recommended storage conditions.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Oxidizing agents may cause exothermic reactions.

10.4. Conditions to avoid

Protect from frost, heat and sunlight.

10.5. Incompatible materials

Oxidizing agents.

10.6. Hazardous decomposition products

Thermal decomposition may produce: hydrogen chloride gas, nitrogen oxides (NO_x), carbon oxides (CO_x). Ammonia. Hydrogen cyanide (hydrocyanic acid).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Information on the product as supplied:

Acute oral toxicity: LD50/oral/rat > 5000 mg/kg.

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| Acute dermal toxicity: | LD50/dermal/rat > 5000 mg/kg |
| Acute inhalation toxicity: | The product is not expected to be toxic by inhalation. |
| Skin corrosion/irritation: | Non-irritating to skin. |
| Serious eye damage/eye irritation: | Not irritating. (OECD 437) |
| Respiratory/skin sensitisation: | Not sensitizing. |
| Mutagenicity: | Not mutagenic. |
| Carcinogenicity: | Not carcinogenic. |
| Reproductive toxicity: | Not toxic for reproduction. |
| STOT - single exposure: | No known effects. |
| STOT - repeated exposure: | No known effects. |
| Aspiration hazard: | Due to the viscosity, this product does not present an aspiration hazard. |

Relevant information on the hazardous components:

Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, < 2% aromatics

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| Acute oral toxicity: | LD50/oral/rat > 5000 mg/kg. (OECD 401) |
| Acute dermal toxicity: | LD50/dermal/rabbit > 5000 mg/kg (OECD 402) |
| Acute inhalation toxicity: | LC50/inhalation/4 h/rat = 4951 mg/m ³ . (OECD 403) |
| Skin corrosion/irritation: | Not irritating. (OECD 404) Repeated exposure may cause skin dryness or cracking. |
| Serious eye damage/eye irritation: | Not irritating. (OECD 405) |
| Respiratory/skin sensitisation: | By analogy with similar products, this product is not expected to be sensitizing. (OECD 406) |
| Mutagenicity: | Not mutagenic. (OECD 471, 473, 474, 476, 478, 479) |
| Carcinogenicity: | Carcinogenicity study in rats (OECD 451): Negative. |
| Reproductive toxicity: | By analogy with similar substances, this substance is not expected to be toxic for reproduction. NOAEL/rat = 300 ppm. (OECD 421) |
| STOT - single exposure: | No known effects. |
| STOT - repeated exposure: | NOAEL/oral/rat/90 days >= 3000 mg/kg/day (OECD 408) (Based on results obtained from tests on analogous products). |
| Aspiration hazard: | May be fatal if swallowed and enters airways. |

Isotridecanol, ethoxylated

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| Acute oral toxicity: | LD50/oral/rat = 500 - 2000 mg/kg. |
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| <i>Acute dermal toxicity:</i> | LD50/dermal/rabbit > 2000 mg/kg |
| <i>Acute inhalation toxicity:</i> | No data available. |
| <i>Skin corrosion/irritation:</i> | Not irritating. (OECD 404) |
| <i>Serious eye damage/eye irritation:</i> | Causes serious eye irritation. (OECD 405) |
| <i>Respiratory/skin sensitisation:</i> | The results of testing on guinea pigs showed this material to be non-sensitizing. |
| <i>Mutagenicity:</i> | Not mutagenic. |
| <i>Carcinogenicity:</i> | Not carcinogenic. |
| <i>Reproductive toxicity:</i> | Two-Generation Reproduction Toxicity (OECD 416) NOAEL/rat > 250 mg/kg/day Prenatal Development Toxicity Study (OECD 414) NOAEL/Maternal toxicity/rat > 50 mg/kg/day NOAEL/Developmental toxicity/rat > 50 mg/kg/day |
| <i>STOT - single exposure:</i> | No known effects. |
| <i>STOT - repeated exposure:</i> | NOAEL/oral/rat/600 days = 50 mg/kg/day |
| <i>Aspiration hazard:</i> | No known effects. |

SECTION 12: Ecological information

12.1. Toxicity

Information on the product as supplied:

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| <i>Acute toxicity to fish:</i> | LC50/Fish/96 hours = 10 - 100 mg/L (Estimated) |
| <i>Acute toxicity to invertebrates:</i> | EC50/Daphnia/48 hours = 10 - 100 mg/L (Estimated) |
| <i>Acute toxicity to algae:</i> | Algal inhibition tests are not appropriate. The flocculation characteristics of the product interfere directly in the test medium preventing homogenous distribution which invalidates the test. |
| <i>Chronic toxicity to fish:</i> | No data available. |
| <i>Chronic toxicity to invertebrates:</i> | No data available. |
| <i>Toxicity to microorganisms:</i> | No data available. |
| <i>Effects on terrestrial organisms:</i> | No data available. Readily biodegradable, exposure to soil is unlikely. |
| <i>Sediment toxicity:</i> | No data available. Readily biodegradable, exposure to sediment is unlikely. |

Relevant information on the hazardous components:

Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, < 2% aromatics

| | |
|---|--|
| <i>Acute toxicity to fish:</i> | LC0/Oncorhynchus mykiss/96 hours > 1000 mg/L. (OECD 203) |
| <i>Acute toxicity to invertebrates:</i> | EC0/Daphnia magna/48 hours > 1000 mg/L. (OECD 202) |

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|------------------------------------|---|
| Acute toxicity to algae: | IC0/Pseudokirchneriella subcapitata/72 hours > 1000 mg/L. (OECD 201) |
| Chronic toxicity to fish: | NOEC/Oncorhynchus mykiss/28 days > 1000 mg/L. |
| Chronic toxicity to invertebrates: | NOEC/Daphnia magna/21 days > 1000 mg/L. |
| Toxicity to microorganisms: | EC50/Tetrahymena pyriformis/ 48h > 1000 mg/L. |
| Effects on terrestrial organisms: | No data available. |
| Sediment toxicity: | No data available. Readily biodegradable, exposure to sediment is unlikely. |

Isotridecanol, ethoxylated

| | |
|------------------------------------|--|
| Acute toxicity to fish: | LC50/Cyprinus carpio/96 hours = 1 - 10 mg/L (OECD 203) |
| Acute toxicity to invertebrates: | EC50/Daphnia/48 hours = 1 - 10 mg/L (OECD 202) |
| Acute toxicity to algae: | IC50/Desmodesmus subspicatus/72 hours = 1 - 10 mg/L (OECD 201) |
| Chronic toxicity to fish: | No data available. |
| Chronic toxicity to invertebrates: | No data available. |
| Toxicity to microorganisms: | EC10/activated sludge/17 hours > 10000 mg/L (DIN 38412-8) |
| Effects on terrestrial organisms: | No data available. |
| Sediment toxicity: | No data available. |

12.2. Persistence and degradability

Information on the product as supplied:

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| Degradation: | Readily biodegradable. |
| Hydrolysis: | At natural pHs (>6) the polymer degrades due to hydrolysis to more than 70% in 28 days. The hydrolysis products are not harmful to aquatic organisms. |
| Photolysis: | No data available. |

Relevant information on the hazardous components:

Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, < 2% aromatics

| | |
|--------------|------------------------|
| Degradation: | Readily biodegradable. |
| Hydrolysis: | Does not hydrolyse. |
| Photolysis: | No data available. |

Isotridecanol, ethoxylated

| | |
|--------------|---|
| Degradation: | Readily biodegradable. > 60% / 28 days (OECD 301 B) |
| Hydrolysis: | Does not hydrolyse. |

Photolysis: No data available.

12.3. Bioaccumulative potential

Information on the product as supplied:

The product is not expected to bioaccumulate.

Partition co-efficient (Log Pow): Not applicable.

Bioconcentration factor (BCF): No data available.

Relevant information on the hazardous components:

Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Partition co-efficient (Log Pow): 3 - 6

Bioconcentration factor (BCF): No data available.

Isotridecanol, ethoxylated

Partition co-efficient (Log Pow): > 3

Bioconcentration factor (BCF): No data available.

12.4. Mobility in soil

Information on the product as supplied:

No data available.

Relevant information on the hazardous components:

Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, < 2% aromatics

K_{oc}: No data available.

Isotridecanol, ethoxylated

K_{oc}: > 5000

12.5. Results of PBT and vPvB assessment

PBT assessment:

Does not fulfill the criteria according to Annex XIII of REACH.

vPvB assessment:

Does not fulfill the criteria according to Annex XIII of REACH.

12.6. Other adverse effects

None.

SECTION 13: Disposal considerations*13.1. Waste treatment methods**Waste from residues/unused products:*

Dispose in accordance with local and national regulations.

Contaminated packaging:

Rinse empty containers with water and use the rinse-water to prepare the working solution. If recycling is not practicable, dispose of in compliance with local regulations.

Recycling:

Store containers and offer for recycling of material when in accordance with the local regulations.

SECTION 14: Transport information

Land transport (ADR/RID)

Not classified.

Sea transport (IMDG)

Not classified.

Air transport (IATA)

Not classified.

SECTION 15: Regulatory information*15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture*

All components of this product have been registered or pre-registered with the European Chemicals Agency or are exempt from registration.

15.2. Chemical safety assessment

A Chemical Safety Assessment for this product has been carried out by the person responsible for producing this Safety Data Sheet. All relevant information used to conduct this assessment are included in this Safety Data Sheet as well any as any resulting Risk Reduction Measures.

SECTION 16: Other information

This data sheet contains changes from the previous version in section(s):

SECTION 3. Composition/information on ingredients, SECTION 16. Other Information.

Key or legend to abbreviations and acronyms used in the safety data sheet:

Abbreviations

Asp. Tox. 1 = Aspiration hazard Category Code 1

Acute Tox. 4 = Acute toxicity Category Code 4

Eye Dam 1 = Serious eye damage/eye irritation Category Code 1

H-Phrases

H302 - Harmful if swallowed

H304 - May be fatal if swallowed and enters airways

H318 - Causes serious eye damage

This SDS was prepared in accordance with the following:

Regulation (EU) No. 2015/830

Regulation (EC) No. 1272/2008

Regulation (EC) No. 1907/2006

Version: 16.01.b

ENCC046

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. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

ANNEX(ES)

This product is not hazardous as supplied and does not contain:

- hazardous components which require REACH registration; or,
- demonstrate relevant effects which would require a chemical safety assessment; or,
- are present at concentrations above their cut-off value.

Therefore, according to Regulation (EC) No 1907/2006, Article 31, paragraph 7, an Exposure Scenario is not required as an annex to the Safety Data Sheet.