

# SAFETY DATA SHEET

According to Model Work Health and Safety Regulations

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## Section 1: Identification: Product identifier and chemical identity

### 1.1. Product identifier

Product name: **FLOPAM™ EM 532**

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 Australia Pty. Ltd.  
298 Broderick Road  
Lara, Vic 3212  
Australia

Telephone: +61.(0).3.5275.9200

Telefax: +61.(0).3.5275.8506

E-mail address: snf@snf.com.au

### 1.4. Emergency telephone number

24-hour emergency number: 1 800 033 111

## Section 2: Hazard(s) identification

### 2.1. Classification of the substance or mixture

Classification according to Model Work Health and Safety Regulations:

Not classified.

### 2.2. Label elements

Labelling according to Model Work Health and Safety Regulations:

Hazard pictogram(s): None.

Signal word: None.

Hazard statement(s): None.

Precautionary statement(s): None.

Additional elements: None.

### 2.3. Other hazards

Spills produce extremely slippery surfaces.

## Section 3: Composition and information on ingredients

### 3.1. Substances

Not applicable, this product is a mixture.

### 3.2. Mixtures

This product is a mixture.

### Hazardous components

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

Concentration/ -range: 20 - 45%

CAS Number: 64742-47-8

Classification according to Model  
Work Health and Safety Regulations: Asp. Tox. 1;H304

#### Notes:

Does not result in classification of the mixture if the kinematic viscosity is greater than 20.5 mm<sup>2</sup>/s measured at 40°C.

#### Isotridecanol, ethoxylated

Concentration/ -range: < 3%

CAS Number: 69011-36-5

Classification according to Model  
Work Health and Safety Regulations: 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. Alternatively, rinse immediately with Diphoterine ®. Get prompt medical attention.

*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: Firefighting measures*5.1. Extinguishing media**Suitable extinguishing media:*

Water. Water spray. Foam. Carbon dioxide (CO<sub>2</sub>). Dry powder.

Warning! Spills produce extremely slippery surfaces.

*Unsuitable extinguishing media:*

None.

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

Carbon oxides (CO<sub>x</sub>). Nitrogen oxides (NO<sub>x</sub>). 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. Prevent further leakage or spillage if safe to do so.

*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 and personal protection

##### 8.1. Control parameters

*Occupational exposure limits:*

None known.

##### 8.2. Exposure controls

Appropriate engineering controls:

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:*

i) *Hand protection:* PVC or other plastic material gloves.

ii) *Other:* Wear coveralls and/or chemical apron and rubber footwear where physical contact can occur.

*c) Respiratory protection:*

No personal respiratory protective equipment normally required.

*d) Additional advice:*

Wash hands before breaks and at the end of workday. Handle in accordance with good industrial hygiene and safety practice. Wash hands and face before breaks and immediately after handling the product.

*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*

<i>a) Appearance:</i>	Viscous liquid, Milky.
<i>b) Odour:</i>	Aliphatic.
<i>c) Odour Threshold:</i>	No data available.
<i>d) pH:</i>	5.5 - 8.5 @ 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
<i>l) Vapour density:</i>	0.804 g/litre @ 20°C
<i>m) Relative density:</i>	1.0 - 1.2
<i>n) Solubility(ies):</i>	Completely miscible.
<i>o) Partition coefficient:</i>	Not applicable.
<i>p) Autoignition temperature:</i>	No data available.
<i>q) Decomposition temperature:</i>	> 150°C
<i>r) Viscosity:</i>	> 20.5 mm <sup>2</sup> /s @ 40°C
<i>s) Explosive properties:</i>	Not expected to be explosive based on the chemical structure.
<i>t) Oxidizing properties:</i>	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*

None known.

### *10.4. Conditions to avoid*

Protect from frost, heat and sunlight.

### *10.5. Incompatible materials*

Incompatible with oxidizing agents.

### *10.6. Hazardous decomposition products*

Thermal decomposition may produce: nitrogen oxides (NO<sub>x</sub>), carbon oxides (CO<sub>x</sub>). Hydrogen cyanide (hydrocyanic acid) may be produced in the event of combustion in an oxygen deficient atmosphere.

## Section 11: Toxicological information

### *11.1. Information on toxicological effects*

#### Information on the product as supplied:

<i>Acute oral toxicity:</i>	LD50/oral/rat > 5000 mg/kg (Estimated)
<i>Acute dermal toxicity:</i>	LD50/dermal/rat > 5000 mg/kg. (Estimated)
<i>Acute inhalation toxicity:</i>	The product is not expected to be toxic by inhalation.
<i>Skin corrosion/irritation:</i>	Non-irritating to skin.
<i>Serious eye damage/eye irritation:</i>	Not irritating. (OECD 437)
<i>Respiratory/skin sensitisation:</i>	Not sensitizing.
<i>Mutagenicity:</i>	Not mutagenic.
<i>Carcinogenicity:</i>	Not carcinogenic.
<i>Reproductive toxicity:</i>	Not toxic for reproduction.
<i>STOT - Single exposure:</i>	No known effects.
<i>STOT - Repeated exposure:</i>	No known effect.
<i>Aspiration hazard:</i>	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

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:	LC0/inhalation/4 hours/rat $\geq$ 4951 mg/m <sup>3</sup> (OECD 403) (Based on results obtained from tests on analogous products)
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 $\geq$ 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

Acute oral toxicity:	LD50/oral/rat = 500 - 2000 mg/kg
Acute dermal toxicity:	LD50/dermal/rabbit > 2000 mg/kg.
Acute inhalation toxicity:	No data available.
Skin corrosion/irritation:	Not irritating. (OECD 404)
Serious eye damage/eye irritation:	Causes serious eye irritation. (OECD 405)
Respiratory/skin sensitisation:	The results of testing on guinea pigs showed this material to be non-sensitizing.
Mutagenicity:	Not mutagenic.
Carcinogenicity:	Not carcinogenic.
Reproductive toxicity:	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

STOT - Single exposure:	No known effects.
STOT - Repeated exposure:	NOAEL/oral/rat/600 days = 50 mg/kg/day
Aspiration hazard:	No known effects.

## Section 12: Ecological information

### 12.1. Toxicity

#### Information on the product as supplied:

Acute toxicity to fish:	LC50/Oncorhynchus mykiss/96 hours > 100 mg/L. (Estimated)
Acute toxicity to invertebrates:	EC50/Daphnia magna/48 hours > 100 mg/L. (Estimated)
Acute toxicity to algae:	IC50/Algae/72 hours > 100 mg/L (Estimated)
Chronic toxicity to fish:	No data available.
Chronic toxicity to invertebrates:	No data available.
Toxicity to microorganisms:	No data available.
Effects on terrestrial organisms:	No data available.
Sediment toxicity:	No data available.

#### Relevant information on the hazardous components:

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

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

Degradation:	Not readily biodegradable.
Hydrolysis:	Does not hydrolyse.
Photolysis:	No data available.

#### Relevant information on the hazardous components:

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

Degradation:	Readily biodegradable. 67.6% / 28 days (OECD 301 F) ; 68.8% / 28 days (OECD 306) ; 61.2% / 61 days (OECD 304 A)
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

Koc: No data available.

Isotridecanol, ethoxylated

Koc: > 5000

12.5. 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. Can be landfilled or incinerated, when in compliance with local regulations.

Recycling:

In accordance with local and national regulations.

Section 14: Transport information

Land transport (ADG)

Not classified.

*Sea transport (IMDG)*

Not classified.

*Air transport (IATA)*

Not classified.

#### Section 15: Regulatory information

*Information on the product as supplied:*

*Australian Inventory of Chemical Substances (AICS)*

All components of this product are either listed on the inventory or are exempt from listing.

#### Section 16: Any other relevant information

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

SECTION 8. Exposure controls/personal protection, SECTION 15. Regulatory information, SECTION 16. Other Information.

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

*Acronyms*

STOT = Specific target organ toxicity

*Abbreviations*

Acute Tox. 4 = Acute toxicity Category Code 4

Asp. Tox. 1 = Aspiration hazard Category Code 1

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

*Hazard statements*

H302 - Harmful if swallowed

H304 - May be fatal if swallowed and enters airways

H318 - Causes serious eye damage

*Training advice:*

Do not handle until all safety precautions have been read and understood.

*This SDS was prepared in accordance with the following:*

Model Work Health and Safety Regulations & Code of Practice on Preparation of Safety Data Sheets for Hazardous Chemicals.

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ENAC001A

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