

SAFETY DATA SHEET

According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020

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

1.1. Product identifier

Product name: **FLOFOAM™ H 16**

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. Defoamer.

Uses advised against: All non-professional uses.

1.3. Details of the supplier of the safety data sheet

Company: SNF (UK) Limited
1 Red Hall Crescent, Paragon Business Village
Wakefield WF1 2DF
United Kingdom

Telephone: 01924-311000

Telefax: 01924-311099

E-mail address: sds@snf.com

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) No.1272/2008:

Not classified.

2.2. Label elements

Labelling according to Regulation (EC) 1272/2008:

Hazard pictogram(s):

Contains:	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

None.

PBT and vPvB assessment:

Not PBT or vPvB according to the criteria of 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 a mixture.

3.2. Mixtures

Hazardous components

1-Hexanol, 2-ethyl-, manufacture of, by-products from, distillation residues

Concentration/ -range:	< 10%
EC-No.:	271-832-1
REACH Registration Number:	01-2119485030-49-XXXX
Classification according to Regulation (EC) No.1272/2008:	Skin Irrit. 2;H315, Aquatic Chronic 3;H412

Distillates hydrotreated light paraffinic (DMSO <3%)

Concentration/ -range:	< 10%
EC-No.:	265-158-7
REACH Registration Number:	01-2119487077-29-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.

Petroleum distillates, hydrotreated heavy naphthenic

Concentration/ -range:	< 10%
EC-No.:	265-155-0
REACH Registration Number:	01-2119467170-45-XXXX
Classification according to Regulation (EC) No.1272/2008:	Not classified as hazardous but subject to occupational exposure limit.

Petroleum distillates, hydrotreated light naphthenic

Concentration/ -range:	< 10%
EC-No.:	265-156-6
REACH Registration Number:	01-2119480375-34-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.

Petroleum distillates, hydrotreated heavy paraffinic

Concentration/ -range:	< 10%
EC-No.:	265-157-1
REACH Registration Number:	01-2119484627-25-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.

White mineral oil (petroleum)

Concentration/ -range:	< 10%
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EC-No.: 232-455-8
REACH Registration Number: 01-2119487078-27-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.

Distillates (Fischer-Tropsch), heavy, C18-50-branched, cyclic and linear

Concentration/ -range: < 10%
EC-No.: 482-220-0
REACH Registration Number: 01-0000020163-82-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.

For explanation of abbreviations see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:
If inhaled, remove to fresh air. Get medical attention if symptoms appear.

Skin contact:
Remove soaked clothing immediately and wash affected skin with soap and water. Get medical attention if irritation develops and persists.

Eye contact:
In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention if irritation develops and persists.

Ingestion:
Do NOT induce vomiting. Rinse mouth. Call a physician immediately.

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

Aspiration may cause pulmonary oedema and pneumonitis. May cause sensitisation by skin contact. Prolonged skin contact may cause skin irritation with susceptible persons.

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

None reasonably foreseeable.

Other information:

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

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

Unsuitable extinguishing media:

High volume water jet.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products:

Thermal decomposition may produce: carbon oxides (CO_x).

5.3. Advice for firefighters

Protective measures:

Wear full protective clothing and self-contained breathing apparatus.

Other information:

Cool closed containers exposed to fire with water spray.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions:

Avoid contact with skin and eyes. 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

As with all chemical products, do not flush into surface water.

6.3. Methods and material for containment and cleaning up

Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.

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. Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal.

Residues:

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. Use personal protective equipment. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Keep away from sources of ignition - No smoking. Keep in a dry, cool and well-ventilated place. Incompatible with strong acids and oxidizing agents.

7.3. Specific end use(s)

This information is not available.

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

None known.

*Derived No and Minimum Effect Levels (DNELs/DMELs)**1-Hexanol, 2-ethyl-, manufacture of, by-products from, distillation residues*Workers:*Long-term systemic effects:*

Inhalation 66.1 mg/m³

Skin contact 18.75 mg/kg/day

*Petroleum distillates, hydrotreated heavy naphthenic*Workers:*Long-term local effects:*

Inhalation 5.4 mg/m³

*White mineral oil (petroleum)*Workers:

Long-term systemic effects:

<i>Inhalation</i>	164.56 mg/m ³
<i>Skin contact</i>	217.05 mg/kg/day

*Consumer:**Long-term systemic effects:*

<i>Inhalation</i>	34.78 mg/m ³
<i>Skin contact</i>	93.02 mg/kg/day
<i>Ingestion</i>	25 mg/kg/day

*Predicted no-effect concentrations (PNEC)**1-Hexanol, 2-ethyl-, manufacture of, by-products from, distillation residues*

<i>Freshwater:</i>	0.034 mg/L
<i>Intermittent release:</i>	0.34 mg/L
<i>Marine water:</i>	0.0034 mg/L
<i>Sewage treatment plant:</i>	16.55 mg/L
<i>Sediment (freshwater):</i>	0.364 mg/kg
<i>Sediment (marine water):</i>	0.0364 mg/kg
<i>Soil:</i>	0.051 mg/kg
<i>Oral (secondary poisoning):</i>	33.3 mg/kg

Distillates hydrotreated light paraffinic (DMSO <3%)

<i>Oral (secondary poisoning):</i>	9.33 mg/kg
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Petroleum distillates, hydrotreated heavy naphthenic

<i>Oral (secondary poisoning):</i>	9.33 mg/kg
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Petroleum distillates, hydrotreated light naphthenic

<i>Oral (secondary poisoning):</i>	9.33 mg/kg
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Petroleum distillates, hydrotreated heavy paraffinic

Oral (secondary poisoning): 9.33 mg/kg

Distillates (Fischer-Tropsch), heavy, C18-50-branched, cyclic and linear

Sewage treatment plant: 10 mg/L

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: For prolonged or repeated contact use protective gloves.

ii) Other: Protective suit.

c) Respiratory protection:

No personal respiratory protective equipment normally required. In case of insufficient ventilation, wear suitable respiratory equipment.

d) Additional advice:

Wash hands before breaks and at the end of workday. Wash hands before eating, drinking, or smoking. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Handle in accordance with good industrial hygiene and safety practice.

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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|---|--|
| a) Appearance: | Viscous liquid, Light yellow to amber. |
| b) Odour: | Characteristic |
| c) Odour Threshold: | No data available. |
| d) pH: | No data available. |
| e) Melting point/freezing point: | No data available. |
| f) Initial boiling point and boiling range: | No data available. |
| g) Flash point: | > 100°C |
| h) Evaporation rate: | No data available. |
| i) Flammability (solid, gas): | Not applicable. |

j) Upper/lower flammability or explosive limits:	No data available.
k) Vapour pressure:	No data available.
l) Vapour density:	No data available.
m) Relative density:	0.8 - 1.0 (See Technical Bulletin or Product Specifications for a more precise value, if available)
n) Solubility(ies):	Insoluble in water.
o) Partition coefficient:	No data available.
p) Autoignition temperature:	No data available.
q) Decomposition temperature:	No data available.
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 at normal conditions.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Oxidizing agents may cause exothermic reactions.

10.4. Conditions to avoid

Avoid extremes of temperature.

10.5. Incompatible materials

Incompatible with strong acids and oxidizing agents.

10.6. Hazardous decomposition products

Thermal decomposition may produce: carbon oxides (CO_x).

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>	Moderate skin irritant.
<i>Serious eye damage/eye irritation:</i>	Not irritating.
<i>Respiratory/skin sensitisation:</i>	The product is not expected to be sensitizing.
<i>Mutagenicity:</i>	Based on available data, product is not expected to be mutagenic.
<i>Carcinogenicity:</i>	Based on available data, product is not expected to be carcinogenic.
<i>Reproductive toxicity:</i>	Based on available data, product is not expected to be 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:

1-Hexanol, 2-ethyl-, manufacture of, by-products from, distillation residues

<i>Acute oral toxicity:</i>	LD50/oral/rat > 5000 mg/kg (OECD 401)
<i>Acute dermal toxicity:</i>	No data available.
<i>Acute inhalation toxicity:</i>	LC50/inhalation/4 hours/rat > 5.4 mg/L (aerosol / mist) (OECD 403)
<i>Skin corrosion/irritation:</i>	Moderately irritating to the skin. (OECD 404)
<i>Serious eye damage/eye irritation:</i>	Slightly irritating. (OECD 405)
<i>Respiratory/skin sensitisation:</i>	Not sensitizing. (OECD 406)
<i>Mutagenicity:</i>	Negative in the Ames Test (OECD 471). Negative in the In Vitro Mammalian Chromosome Aberration Test (OECD 473). Negative in the In vitro Mammalian Cell Gene Mutation Test (OECD 476).
<i>Carcinogenicity:</i>	Based on the absence of mutagenicity, it is unlikely that the substance is carcinogenic.
<i>Reproductive toxicity:</i>	Based on available data, product is not expected to be toxic for reproduction. NOAEL/rat = 1000 mg/kg/day (OECD 422) NOAEL/Maternal toxicity/rat = 1000 mg/kg/day (OECD 422) NOAEL/Developmental toxicity/rat = 1000 mg/kg/day (OECD 422)

<i>STOT - Single exposure:</i>	No known effects.
<i>STOT - Repeated exposure:</i>	Based on available data, product is not expected to demonstrate chronic toxic effects. NOAEL/oral/rat = 1000 mg/kg/day (OECD 422)
<i>Aspiration hazard:</i>	No known effects.
<u><i>Distillates hydrotreated light paraffinic (DMSO <3%)</i></u>	
<i>Acute oral toxicity:</i>	LD50/oral/rat > 5000 mg/kg (OECD 401) (Based on results obtained from tests on analogous products)
<i>Acute dermal toxicity:</i>	LD50/dermal/rabbit > 5000 mg/kg (OECD 402) (Based on results obtained from tests on analogous products)
<i>Acute inhalation toxicity:</i>	LC50/inhalation/4 hours/rat > 5.53 mg/L (aerosol / mist) (OECD 403) (Based on results obtained from tests on analogous products)
<i>Skin corrosion/irritation:</i>	Not irritating. (OECD 404) (Based on results obtained from tests on analogous products)
<i>Serious eye damage/eye irritation:</i>	Not irritating. (OECD 405) (Based on results obtained from tests on analogous products)
<i>Respiratory/skin sensitisation:</i>	Not sensitizing. (OECD 406) (Based on results obtained from tests on analogous products)
<i>Mutagenicity:</i>	Based on available data, product is not expected to be mutagenic. In vitro mutagenicity tests were negative in some cases and positive in other cases. (OECD 471, 473) (Based on results obtained from tests on analogous products) In vivo tests did not show mutagenic effects. (OECD 474) (Based on results obtained from tests on analogous products)
<i>Carcinogenicity:</i>	By analogy with similar substances, this substance is not expected to be carcinogenic. (OECD 451, 453)
<i>Reproductive toxicity:</i>	By analogy with similar substances, this substance is not expected to be toxic for reproduction. NOAEL/rat >= 1000 mg/kg/day (OECD 421) Prenatal Development Toxicity Study (OECD 414) - NOAEL/Developmental toxicity/rat >= 2000 mg/kg/day
<i>STOT - Single exposure:</i>	No known effects.
<i>STOT - Repeated exposure:</i>	By analogy with similar products, this product is not expected to demonstrate chronic toxic effects. LOAEL/oral/rat/90 days = 125 mg/kg/day (OECD 408) NOAEC/inhalation/120 h/rat > 980 mg/m ³ (OECD 412)
<i>Aspiration hazard:</i>	May be fatal if swallowed and enters airways.

Petroleum distillates, hydrotreated heavy naphthenic

<i>Acute oral toxicity:</i>	LD50/oral/rat > 5000 mg/kg (OECD 401)
<i>Acute dermal toxicity:</i>	LD50/dermal/rabbit > 2000 mg/kg (OECD 402)
<i>Acute inhalation toxicity:</i>	LC50/inhalation/4 hours/rat > 5.53 mg/L (OECD 403)
<i>Skin corrosion/irritation:</i>	Non-irritating to skin. (OECD 404)
<i>Serious eye damage/eye irritation:</i>	Mild eye irritation. (OECD 405)
<i>Respiratory/skin sensitisation:</i>	Not sensitizing. (OECD 406)
<i>Mutagenicity:</i>	Not mutagenic. (OECD 471, 474, 476)
<i>Carcinogenicity:</i>	Not carcinogenic.
<i>Reproductive toxicity:</i>	Not toxic for reproduction. (OECD 421) Prenatal Development Toxicity Study (OECD 414) - NOAEL/Developmental toxicity/rat = 2000 mg/kg/day
<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.

Petroleum distillates, hydrotreated light naphthenic

<i>Acute oral toxicity:</i>	LD0/oral/rat > 5000 mg/kg (OECD 401)
<i>Acute dermal toxicity:</i>	LD0/dermal/rabbit > 5000 mg/kg (OECD 402)
<i>Acute inhalation toxicity:</i>	LC50/inhalation/4 hours/rat > 5.53 (OECD 403)
<i>Skin corrosion/irritation:</i>	Not irritating. (OECD 404)
<i>Serious eye damage/eye irritation:</i>	Not irritating. (OECD 405)
<i>Respiratory/skin sensitisation:</i>	Not sensitizing. (OECD 406)
<i>Mutagenicity:</i>	In vitro tests showed mutagenic effects which were not observed with in vivo test. Not mutagenic. (OECD 474)
<i>Carcinogenicity:</i>	Carcinogenicity study in rats (OECD 451): Negative. Not carcinogenic. (OECD 453)
<i>Reproductive toxicity:</i>	NOAEL/rat >= 1000 mg/kg/day (OECD 421) Prenatal Development Toxicity Study (OECD 414) - NOAEL/Developmental toxicity/rat >= 2000 mg/kg/day
<i>STOT - Single exposure:</i>	No known effects.
<i>STOT - Repeated exposure:</i>	LOAEL/oral/rat/90 days = 125 mg/kg/day (OECD 408) (Based on results obtained from tests on analogous products) NOAEC/inhalation/120 h/rat > 980 mg/m ³
<i>Aspiration hazard:</i>	May be fatal if swallowed and enters airways.

Petroleum distillates, hydrotreated heavy paraffinic

Acute oral toxicity:	LD0/oral/rat > 5000 mg/kg (OECD 401)
Acute dermal toxicity:	LD0/dermal/rabbit > 5000 mg/kg (OECD 402)
Acute inhalation toxicity:	LC50/inhalation/4 hours/rat > 5.53 mg/L (OECD 403)
Skin corrosion/irritation:	Not irritating. (OECD 404)
Serious eye damage/eye irritation:	Not irritating. (OECD 405)
Respiratory/skin sensitisation:	Not sensitizing. (OECD 406)
Mutagenicity:	Based on available data, product is not expected to be mutagenic. In vitro tests showed mutagenic effects which were not observed with in vivo test. Not mutagenic. (OECD 474)
Carcinogenicity:	Based on available data, product is not expected to be carcinogenic. Carcinogenicity study in rats (OECD 451): Negative. Not carcinogenic. (OECD 453)
Reproductive toxicity:	Based on available data, product is not expected to be toxic for reproduction. NOAEL/rat \geq 1000 mg/kg/day (OECD 421) Prenatal Development Toxicity Study (OECD 414) - NOAEL/Developmental toxicity/rat \geq 2000 mg/kg/day
STOT - Single exposure:	No known effects.
STOT - Repeated exposure:	Based on available data, product is not expected to demonstrate chronic toxic effects. LOAEL/oral/rat/90 days = 125 mg/kg/day (OECD 408) (Based on results obtained from tests on analogous products) NOAEC/inhalation/120 h/rat > 980 mg/m ³
Aspiration hazard:	May be fatal if swallowed and enters airways.

White mineral oil (petroleum)

Acute oral toxicity:	LD50/oral/rat > 5000 mg/kg (OECD 401) (Based on results obtained from tests on analogous products)
Acute dermal toxicity:	LD50/dermal/rabbit > 2000 mg/kg (OECD 402) (Based on results obtained from tests on analogous products)
Acute inhalation toxicity:	LC0/inhalation/4 hours/rat \geq 5 mg/L (aerosol / mist) (OECD 403) (Based on results obtained from tests on analogous products)

<i>Skin corrosion/irritation:</i>	Not irritating. (OECD 404) (Based on results obtained from tests on analogous products) Prolonged skin contact may cause skin irritation and/or dermatitis.
<i>Serious eye damage/eye irritation:</i>	Not irritating. (OECD 405) (Based on results obtained from tests on analogous products)
<i>Respiratory/skin sensitisation:</i>	Not sensitizing. (OECD 406) (Based on results obtained from tests on analogous products)
<i>Mutagenicity:</i>	By analogy with similar products, this substance is not expected to be mutagenic. (OECD 471, 473, 474, 476)
<i>Carcinogenicity:</i>	By analogy with similar substances, this substance is not expected to be carcinogenic. Carcinogenicity study in rat (OECD 453): NOAEL \geq 1200 mg/kg/day
<i>Reproductive toxicity:</i>	By analogy with similar substances, this substance is not expected to be toxic for reproduction. NOAEL/rat \geq 1000 mg/kg/day (OECD 421) NOAEL/rat \geq 2000 mg/kg/day (OECD 415) Prenatal Development Toxicity Study (OECD 414) - NOAEL/Maternal toxicity/rat $>$ 5000 mg/kg/day - NOAEL/Developmental toxicity/rat $>$ 5000 mg/kg/day
<i>STOT - Single exposure:</i>	No known effects.
<i>STOT - Repeated exposure:</i>	By analogy with similar products, this product is not expected to demonstrate chronic toxic effects. NOAEL/oral/rat \geq 1200 mg/kg/day (OECD 453) NOAEC/inhalation/rat = 50 mg/m ³ (aerosol / mist) (OECD 412) NOAEL/dermal/rat/90 days \geq 2000 mg/kg/day (OECD 411)
<i>Aspiration hazard:</i>	May be fatal if swallowed and enters airways.
<u><i>Distillates (Fischer-Tropsch), heavy, C18-50-branched, cyclic and linear</i></u>	
<i>Acute oral toxicity:</i>	LD0/oral/rat $>$ 5000 mg/kg (OECD 420)
<i>Acute dermal toxicity:</i>	No data available.
<i>Acute inhalation toxicity:</i>	No data available.
<i>Skin corrosion/irritation:</i>	Not irritating. (OECD 404)
<i>Serious eye damage/eye irritation:</i>	Not irritating. (OECD 405)
<i>Respiratory/skin sensitisation:</i>	Not sensitizing. (OECD 406)
<i>Mutagenicity:</i>	Negative in the Ames Test (OECD 471). Negative in the In Vitro Mammalian Chromosome Aberration Test (OECD 473). Not mutagenic. (OECD 475, 487)

<i>Carcinogenicity:</i>	Based on the absence of mutagenicity, it is unlikely that the substance is carcinogenic.
<i>Reproductive toxicity:</i>	Two-Generation Reproduction Toxicity (OECD 416) - NOAEL/rat = 1000 mg/kg/day
<i>STOT - Single exposure:</i>	No known effects.
<i>STOT - Repeated exposure:</i>	NOAEL/oral/rat/90 days = 1000 mg/kg/day (OECD 408)
<i>Aspiration hazard:</i>	May be fatal if swallowed and enters airways.

SECTION 12: Ecological information

12.1. Toxicity

Information on the product as supplied:

<i>Acute toxicity to fish:</i>	LC50/Fish/96 hours > 100 mg/L (Estimated)
<i>Acute toxicity to invertebrates:</i>	No data available.
<i>Acute toxicity to algae:</i>	no data available.
<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.
<i>Sediment toxicity:</i>	No data available.

Relevant information on the hazardous components:

1-Hexanol, 2-ethyl-, manufacture of, by-products from, distillation residues

<i>Acute toxicity to fish:</i>	LC50/Danio rerio/96 hours = 50 mg/L (OECD 203)
<i>Acute toxicity to invertebrates:</i>	EC50/Daphnia magna/48 hours > 38 mg/L (OECD 202)
<i>Acute toxicity to algae:</i>	IC50/Desmodesmus subspicatus/72 hours > 34 mg/L (OECD 201)
<i>Chronic toxicity to fish:</i>	No data available.
<i>Chronic toxicity to invertebrates:</i>	No data available.
<i>Toxicity to microorganisms:</i>	EC50/activated sludge/3 hours = 1655 mg/L (OECD 209)
<i>Effects on terrestrial organisms:</i>	no data available.
<i>Sediment toxicity:</i>	No data available.

Distillates hydrotreated light paraffinic (DMSO <3%)

Acute toxicity to fish:	NOEC/Pimephales promelas/96 hours \geq 100 mg/L (WAF) (OECD 203)
Acute toxicity to invertebrates:	NOEC/Daphnia magna/96 hours \geq 10000 mg/L (WAF) (OECD 202)
Acute toxicity to algae:	NOEC/Pseudokirchneriella subcapitata/72 hours \geq 100 mg/L (WAF) (OECD 201)
Chronic toxicity to fish:	NOEC/Oncorhynchus mykiss/14 days \geq 1000 mg/L (Estimated)
Chronic toxicity to invertebrates:	NOEC/Daphnia magna/21 days = 10 mg/L (WAF) (OECD 211)
Toxicity to microorganisms:	EC0/Tetrahymena pyriformis/ 40 h \geq 1000 mg/L.
Effects on terrestrial organisms:	no data available.
Sediment toxicity:	No data available.

Petroleum distillates, hydrotreated heavy naphthenic

Acute toxicity to fish:	NOEC/Pimephales promelas/96 hours > 100 mg/L (OECD 203)
Acute toxicity to invertebrates:	NOEC/Daphnia magna/48 hours = 10000 mg/L (OECD 202)
Acute toxicity to algae:	NOEC/Pseudokirchneriella subcapitata/72 hours = 100 mg/L (OECD 201)
Chronic toxicity to fish:	NOEC/Oncorhynchus mykiss/14 days = 1000 mg/L (Estimated)
Chronic toxicity to invertebrates:	NOEC/Daphnia magna/21 days = 10 mg/L (OECD 211)
Toxicity to microorganisms:	No data available.
Effects on terrestrial organisms:	no data available.
Sediment toxicity:	No data available.

Petroleum distillates, hydrotreated light naphthenic

Acute toxicity to fish:	NOEC/Pimephales promelas/96 hours \geq 100 mg/L (OECD 203)
Acute toxicity to invertebrates:	NOEC/Daphnia magna/48 hours \geq 10000 mg/L (OECD 202)
Acute toxicity to algae:	NOEC/Pseudokirchneriella subcapitata/72 hours \geq 100 mg/L (OECD 201)
Chronic toxicity to fish:	NOEC/Oncorhynchus mykiss/14 days \geq 1000 mg/L (Estimated)
Chronic toxicity to invertebrates:	NOEC/Daphnia magna/21 days = 10 mg/L (OECD 211)
Toxicity to microorganisms:	EC50/Tetrahymena pyriformis/ 40 h > 1000 mg/L.
Effects on terrestrial organisms:	no data available.
Sediment toxicity:	No data available.

Petroleum distillates, hydrotreated heavy paraffinic

<i>Acute toxicity to fish:</i>	NOEC/Pimephales promelas/96 hours \geq 100 mg/L (OECD 203)
<i>Acute toxicity to invertebrates:</i>	NOEC/Daphnia magna/96 hours \geq 10000 mg/L (OECD 202)
<i>Acute toxicity to algae:</i>	NOEC/Pseudokirchneriella subcapitata/96 hours \geq 10000 mg/L (OECD 201)
<i>Chronic toxicity to fish:</i>	NOEC/Oncorhynchus mykiss/14 days \geq 1000 mg/L (Estimated)
<i>Chronic toxicity to invertebrates:</i>	NOEC/Daphnia magna/21 days = 10 mg/L (OECD 211)
<i>Toxicity to microorganisms:</i>	EC50/Tetrahymena pyriformis/ 40 h > 1000 mg/L.
<i>Effects on terrestrial organisms:</i>	no data available.
<i>Sediment toxicity:</i>	No data available.
<u><i>White mineral oil (petroleum)</i></u>	
<i>Acute toxicity to fish:</i>	NOEC/Oncorhynchus mykiss/96 hours \geq 100 mg/L (OECD 203) NOEC/Leuciscus idus/96 hours \geq 100 mg/L (OECD 203)
<i>Acute toxicity to invertebrates:</i>	NOEC/Daphnia magna/48 hours \geq 100 mg/L (OECD 202)
<i>Acute toxicity to algae:</i>	NOEC/Pseudokirchneriella subcapitata/72 hours \geq 100 mg/L (OECD 201)
<i>Chronic toxicity to fish:</i>	NOEC/Oncorhynchus mykiss/28 days \geq 1000 mg/L (Estimated)
<i>Chronic toxicity to invertebrates:</i>	NOEC/Daphnia magna/21 days = 10 mg/L (OECD 211) (Based on results obtained from tests on analogous products).
<i>Toxicity to microorganisms:</i>	Based on available data, product is not expected to be toxic to microorganisms.
<i>Effects on terrestrial organisms:</i>	no data available.
<i>Sediment toxicity:</i>	No data available.
<u><i>Distillates (Fischer-Tropsch), heavy, C18-50-branched, cyclic and linear</i></u>	
<i>Acute toxicity to fish:</i>	LC50/Danio rerio/96 hours > 1000 mg/L (OECD 203)
<i>Acute toxicity to invertebrates:</i>	NOEC/Daphnia magna/48 hours = 100 mg/L (OECD 202)
<i>Acute toxicity to algae:</i>	NOEC/Desmodesmus subspicatus/72 hours = 100 mg/L (OECD 201)
<i>Chronic toxicity to fish:</i>	NOEC/Pimephales promelas/33 days = 100 mg/L (OECD 210)
<i>Chronic toxicity to invertebrates:</i>	NOEC/Daphnia magna/21 days = 100 mg/L (OECD 211)
<i>Toxicity to microorganisms:</i>	EC0/activated sludge/3 hours \geq 1000 mg/L (OECD 209)

Effects on terrestrial organisms: no data available.
Sediment toxicity: EC50/Sediment/28 days > 1000 mg/kg (OECD 218)

12.2. Persistence and degradability

Information on the product as supplied:

Degradation: Inherently biodegradable.

Hydrolysis: No data available.

Photolysis: No data available.

Relevant information on the hazardous components:

1-Hexanol, 2-ethyl-, manufacture of, by-products from, distillation residues

Degradation: Inherently biodegradable. 30 - 35% / 29 days (OECD 301 B)

Hydrolysis: No data available.

Photolysis: No data available.

Distillates hydrotreated light paraffinic (DMSO <3%)

Degradation: Inherently biodegradable.

Hydrolysis: Does not hydrolyse.

Photolysis: No data available.

Petroleum distillates, hydrotreated heavy naphthenic

Degradation: Inherently biodegradable. 31.13% / 28 days (OECD 301 F)

Hydrolysis: Does not hydrolyse.

Photolysis: No data available.

Petroleum distillates, hydrotreated light naphthenic

Degradation: Inherently biodegradable.

Hydrolysis: Does not hydrolyse.

Photolysis: No data available.

Petroleum distillates, hydrotreated heavy paraffinic

Degradation: Inherently biodegradable.

Hydrolysis: Does not hydrolyse.

Photolysis: No data available.

White mineral oil (petroleum)

Degradation: Inherently biodegradable. Expected to be ultimately biodegradable.
31% / 28 days (OECD 301 F)

Hydrolysis: Does not hydrolyse.

Photolysis: No data available.

Distillates (Fischer-Tropsch), heavy, C18-50-branched, cyclic and linear

Degradation: Inherently biodegradable.

Hydrolysis: Does not hydrolyse.

Photolysis: No data available.

12.3. Bioaccumulative potential

Information on the product as supplied:

No data available.

Relevant information on the hazardous components:

1-Hexanol, 2-ethyl-, manufacture of, by-products from, distillation residues

Partition co-efficient (Log Pow): 1.6 @ 23°C (OECD 107)

Bioconcentration factor (BCF): No data available.

Distillates hydrotreated light paraffinic (DMSO <3%)

Partition co-efficient (Log Pow): 1.99 - 18.02

Bioconcentration factor (BCF): No data available.

Petroleum distillates, hydrotreated heavy naphthenic

Partition co-efficient (Log Pow): 2 - 6

Bioconcentration factor (BCF): < 500

Petroleum distillates, hydrotreated light naphthenic

Partition co-efficient (Log Pow): No data available.

Bioconcentration factor (BCF): No data available.

Petroleum distillates, hydrotreated heavy paraffinic

Partition co-efficient (Log Pow): 1.99 - 18.02

Bioconcentration factor (BCF): No data available.

White mineral oil (petroleum)

Partition co-efficient (Log Pow): 4.3 - 18.02

Bioconcentration factor (BCF): ≤ 10900

Distillates (Fischer-Tropsch), heavy, C18-50-branched, cyclic and linear

Partition co-efficient (Log Pow): $> 6.5 @ 40^{\circ}\text{C}, \text{pH } 6.6$

Bioconcentration factor (BCF): ≤ 29

12.4. Mobility in soil

Information on the product as supplied:

No data available.

Relevant information on the hazardous components:

1-Hexanol, 2-ethyl-, manufacture of, by-products from, distillation residues

K_{OC}: No data available.

Distillates hydrotreated light paraffinic (DMSO <3%)

K_{OC}: No data available.

Petroleum distillates, hydrotreated heavy naphthenic

K_{OC}: No data available.

Petroleum distillates, hydrotreated light naphthenic

K_{OC}: No data available.

Petroleum distillates, hydrotreated heavy paraffinic

Koc: No data available.

White mineral oil (petroleum)

Koc: log Koc = 3.58 - 14.70

Distillates (Fischer-Tropsch), heavy, C18-50-branched, cyclic and linear

Koc: log Koc > 5.63 @ 40°C

12.5. Results of PBT and vPvB assessment

PBT assessment:

Not PBT according to the criteria of Annex XIII of REACH.

vPvB assessment:

Not vPvB according to the criteria of Annex XIII of REACH.

12.6. Other adverse effects

None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products:

Dispose in accordance with local and national regulations.

Contaminated packaging:

Reuse or recycle container after thorough cleaning. If recycling is not practicable, dispose of in compliance with local regulations.

Recycling:

In accordance with local and national 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

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 1. Identification of the substance/mixture and of the company/undertaking, SECTION 2. Hazards identification, SECTION 3. Composition/information on ingredients, SECTION 4. First aid measures, SECTION 5. Fire-fighting measures, SECTION 6. Accidental release measures, SECTION 7. Handling and storage, SECTION 8. Exposure controls/personal protection, SECTION 9. Physical and chemical properties, SECTION 10. Stability and reactivity, SECTION 11. Toxicological information, SECTION 12. Ecological information, SECTION 13. Disposal considerations, SECTION 14. Transport information, SECTION 15. Regulatory information, SECTION 16. Other Information.

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

Acronyms

PBT = persistent, bioaccumulative and toxic

STOT = Specific target organ toxicity

vPvB = very persistent and very bioaccumulative

Abbreviations

Aquatic Chronic 3 = Hazardous to the aquatic environment — Chronic Hazard, Category 3

Asp. Tox. 1 = Aspiration hazard, Hazard Category 1

Skin Irrit. 2 = Skin corrosion/irritation, Hazard Category 2

Hazard statements

H304 - May be fatal if swallowed and enters airways

H315 - Causes skin irritation

H412 - Harmful to aquatic life with long lasting effects

Training advice:

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

This SDS was prepared in accordance with the following:

Regulation (EC) N°1907/2006, as amended

Regulation (EC) N°1272/2008, as amended

Version: 20.01.a

DEFM003

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/or does not contain hazardous components:

- which require REACH registration; or,
- which demonstrate relevant effects which would require a chemical safety assessment; or,
- which 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.