SAFETY DATA SHEET

According to Regulation (EC) No 1907/2006 and its amendments

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

Product identifier

Product name: **FLOSET™ GEL EM**

Type of product: Mixture.

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

Identified uses: Processing aid for industrial applications.

Uses advised against: None.

Details of the supplier of the safety data sheet

Company: SNF SA
ZAC de Milieux
42163 Andrézieux
France

Telephone: +33 (0)4 77 36 86 00

Telefax: +33 (0)4 77 36 87 18

E-mail address: regs@snf.com

Emergency telephone number

24-hour emergency number: +33 (0)4 77 36 87 25

National Poison Information Service: This is a generic EU Safety Data Sheet. Consult your specific Member State version for this information.

SECTION 2: Hazards identification

Classification of the substance or mixture

Classification according to Regulation (EC) No.1272/2008: Not classified.

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 EUH208 - Contains Reaction mass of 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1). May produce an allergic reaction

Other hazards

Spills produce extremely slippery surfaces.

PBT and vPvB assessment:
Not PBT or vPvB according to the criteria of Annex XIII of REACH.

SECTION 3: Composition/information on ingredients

Substances
Not applicable, this product is a mixture.

Mixtures
This product is a mixture.

Hazardous components

Reaction mass of 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)

Concentration/ -range:	0.00015 - 0.0015 %
ECHA List Number: *(Assigned to substances without a CAS N° or other numerical identifier.)*	611-341-5
REACH Registration Number:	Exempt
Classification according to Regulation (EC) No.1272/2008:	Acute Tox. 3;H301, Acute Tox. 3;H311, Skin Corr. 1B;H314, Skin Sens. 1A;H317, Acute Tox. 3;H331, Aquatic Acute 1;H400, Aquatic Chronic 1;H410, M = 10

Notes:
Can be identified as Mixture of 5-chloro-2-methyl-4-isothiazolin-3-one (CAS 26172-55-4) and 2-methyl-4-isothiazolin-3-one (CAS 2682-20-4)

For explanation of abbreviations see section 16

SECTION 4: First aid measures

Description of first aid measures

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

Skin contact:
Wash off with plenty of water. Get medical attention immediately if irritation develops and persists.

Eye contact:
In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Ingestion:
If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel. Get medical attention.

Most important symptoms and effects, both acute and delayed

May cause sensitisation of susceptible persons by skin contact.

Indication of any immediate medical attention and special treatment needed.

None reasonably foreseeable.

Other information:
None.

SECTION 5: Fire-fighting measures

Extinguishing media

Suitable extinguishing media:
Water spray. Foam. Carbon dioxide (CO2). Dry powder.

Unsuitable extinguishing media:
None known.

Special hazards arising from the substance or mixture

Hazardous decomposition products:
Carbon oxides (COx). Nitrogen oxides (NOx).

Advice for fire-fighters

Protective measures:
Wear self contained breathing apparatus for fire fighting if necessary.

Other information:
Will not burn until water is evaporated. Spills produce extremely slippery surfaces.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions:
Avoid contact with skin. Spills produce extremely slippery surfaces.

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

Emergency procedures:
Prevent further leakage or spillage if safe to do so. Keep people away from spill/leak.

Environmental precautions

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

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.Do not allow solution to dry. Contain with dike. Pump into suitable and properly labelled containers.

Residues:
After cleaning, flush away traces with water.

Reference to other sections

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

SECTION 7: Handling and storage

Precautions for safe handling

Avoid contact with skin. Renders surfaces extremely slippery when spilled.

Conditions for safe storage, including any incompatibilities

Keep container tightly closed. Freezing will affect the physical condition and may damage the material.

Specific end use(s)

This information is not available.

SECTION 8. Exposure controls/personal protection

Control parameters

National occupational exposure limits:
This is a generic EU Safety Data Sheet. Individual Member States may have national occupational exposure limits relevant to this product. This information is included in the specific Member State version of this Safety Data Sheet.

Derived No and Minimum Effect Levels (DNELs/DMELs)
None known.

Predicted no-effect concentrations (PNEC)
None known.

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: Impervious gloves.

ii) Other: Chemical resistant apron or protective suit if splashing or repeated contact with solution is likely.

c) Respiratory protection:
Not required ; except in case of aerosol formation.

d) Additional advice:
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

Information on basic physical and chemical properties

a) Appearance:	Viscous liquid, White.
b) Odour:	Ester-like
c) Odour Threshold:	No data available.
d) pH:	7 - 9
e) Melting point/freezing point:	No data available.
f) Initial boiling point and boiling range:	No data available.
g) Flash point:	Does not flash.
h) Evaporation rate:	No data available.
i) Flammability (solid, gas):	Not applicable.
j) Upper/lower flammability or explosive limits:	Not expected to create explosive atmospheres.
k) Vapour pressure:	2.3 kPa @ 20°C
l) Vapour density:	No data available.
m) Relative density:	0.9 - 1.1
n) Solubility(ies):	Completely miscible in water.
o) Partition coefficient:	No data available.
p) Autoignition temperature:	Does not self-ignite (based on the chemical structure).
q) Decomposition temperature:	No data available.
r) Viscosity:	150 mPa.s @ 23°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.

Other information

None.

SECTION 10: Stability and reactivity

Reactivity

None known.

Chemical stability

Stable.

Possibility of hazardous reactions

None known.

Conditions to avoid

Protect from frost, heat and sunlight.

Incompatible materials

None known.

Hazardous decomposition products

Thermal decomposition may produce: Carbon oxides (COx). Nitrogen oxides (NOx).

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 (Estimated)
Acute dermal toxicity:	LD50/dermal/rat > 5000 mg/kg. (Estimated)
Acute inhalation toxicity:	The product is not expected to be toxic by inhalation.
Skin corrosion/irritation:	By analogy with similar products, this product is not expected to be irritating.
Serious eye damage/eye irritation:	By analogy with similar products, this product is not expected to be irritating.
Respiratory/skin sensitisation:	The product contains a small amount of sensitising substances which may provoke an allergic reaction among sensitive individuals in contact with skin.
Mutagenicity:	By analogy with similar products, this product is not expected to to be mutagenic.
Carcinogenicity:	By analogy with similar substances, this substance is not expected to be carcinogenic.

Reproductive toxicity: By analogy with similar substances, this substance is not expected to be toxic for reproduction.

STOT - Single exposure: No known effects.

STOT - Repeated exposure: No known effect.

Aspiration hazard: No hazards resulting from the material as supplied.

Relevant information on the hazardous components:

Reaction mass of 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)

Acute oral toxicity: No data available.

Acute dermal toxicity: No data available.

Acute inhalation toxicity: LC50/inhalation/4 hours/rat = 0.33 mg/L

Skin corrosion/irritation: Causes burns.

Serious eye damage/eye irritation: Causes burns.

Respiratory/skin sensitisation: The results of a test on guinea pigs showed this subtance to be a skin sensitizer. (OECD 406)

Mutagenicity: In vitro tests did not show mutagenic effects. In vivo tests did not show mutagenic effects.

Carcinogenicity: Did not show carcinogenic effects in animal experiments.

Reproductive toxicity: Not toxic for reproduction.

STOT - Single exposure: No data available.

STOT - Repeated exposure: No data available.

Aspiration hazard: No known effects.

SECTION 12: Ecological information

Toxicity

Information on the product as supplied:

Acute toxicity to fish: LC50/Fish/96 hours > 100 mg/L (Estimated)

Acute toxicity to invertebrates: EC50/Daphnia/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:

Reaction mass of 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)

Acute toxicity to fish: LC50/Oncorhynchus mykiss/96 hours = 0.19 mg/L. (OECD 203)
LC50/Lepomis macrochirus/96 hours = 0.28 mg/L

Acute toxicity to invertebrates: EC50/Daphnia magna/48 hours = 0.16 mg/L. (OECD 202)

Acute toxicity to algae: IC50/Selenastrum capricornutum/72 hours = 0.027 mg/L (OECD 201)

Chronic toxicity to fish: NOEC/Oncorhynchus mykiss/28 days = 0.098 mg/L (OECD 210)

Chronic toxicity to invertebrates: NOEC/Daphnia magna/21 days = 0.004 mg/L (OECD 211)

Toxicity to microorganisms: No data available.

Effects on terrestrial organisms: No data available.

Sediment toxicity: No data available.

Persistence and degradability

Information on the product as supplied:

Degradation: Not readily biodegradable.
Inherently biodegradable. 98% / 28 days (OECD 302)

Hydrolysis: No data available.

Photolysis: No data available.

Relevant information on the hazardous components:

Reaction mass of 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)

Degradation: Readily biodegradable. > 60% / 28 days (OECD 301 D)
Half-life: 1.82 - 1.92 d (OECD 308)

Hydrolysis: No data available.

Photolysis: No data available.

Bioaccumulative potential

Information on the product as supplied:

The product is not expected to bioaccumulate.

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

Bioconcentration factor (BCF): No data available.

Relevant information on the hazardous components:

Reaction mass of 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)

Partition co-efficient (Log Pow): <= 0.75 (OECD 107)

Bioconcentration factor (BCF): 3.6

Mobility in soil

Information on the product as supplied:

No data available.

Relevant information on the hazardous components:

Reaction mass of 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)

Koc: No data available.

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.

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:

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

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.

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 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
PBT = persistent, bioaccumulative and toxic
STOT = Specific target organ toxicity
vPvB = very persistent and very bioaccumulative

Abbreviations
Acute Tox. 3 = Acute toxicity, Hazard Category 3
Aquatic Acute 1 = Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1 = Hazardous to the aquatic environment — Chronic Hazard, Category 1
Skin Corr. 1B = Skin corrosion/irritation, Hazard Category 1B
Skin Sens. 1A = Sensitisation — Skin, hazard category 1A

Hazard statements
H301 - Toxic if swallowed
H311 - Toxic in contact with skin
H314 - Causes severe skin burns and eye damage
H317 - May cause an allergic skin reaction
H331 - Toxic if inhaled
H400 - Very toxic to aquatic life
H410 - Very toxic to aquatic life with long lasting effects

This SDS was prepared in accordance with the following:

Regulation (EC) N°1907/2006, as amended
Regulation (EC) N°1272/2008, as amended

Version: 17.01.a

RE006

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.