

Safety sheet

SMP FORTE

according to regulation (ES) 1907/2006 (REACH)

Issued: 04.08.2015
 Revision: 04.02.2016 Version: 0.1
 Catalogue No.: 645000

SECTION 1. Identification of material / substance and the company / enterprise

- 1.1 Product identifier:
 Trade name: SMP FORTE
 Identification number: Not assigned, mixture.
 Registration number: Not indicated.
- 1.2 Relevant recommended use of the substance or mixture and unrecommended use:
 Recommended use: Biocidal product for professional use.
 Unrecommended use: Unlisted.
- 1.3 Detailed data about the Safety Sheet supplier:
 Manufacturer/Importer: STOMIX, spol. s r.o.
 Place of business or registered office: 790 65 Skorošice 197, CZ
 Identification number: ID 48400874
 Telephone: +420 584 484 111
 Fax: +420 584 484 112
 Authorized specialist: zichova@stomix.cz
- 1.4 Telephone number for emergencies: Medical toxicology information service
 Mary Sheridan House
 15 St Thomas Street
 London SE1 9RY
 Tel: 020 7188 0600
 Fax: 020 7188 0800
 Website: www.medtox.co.uk
 Information for health risks only – acute poisoning of humans and animals

SECTION 2. Risk identification

- Overall classification of substance or mixture: The mixture is classified as dangerous.
- Dangerous effects to the health: Irritating to eyes, respiratory system and skin.
- Dangerous effects to environment: Very toxic for aquatic organisms.
- Physico-chemical effects: The mixture has no physico-chemical effects, which would affect the overall classification of the product.

2.1 Classification of the substance or mixture:

Classification according to regulation (ES) No. 1272/2008	Class and category	Standard phrases about hazard
	Aquatic Acute 1	H400
	Skin Irrit. 2	H315
	Eye Irrit. 2	H319
	Skin Sens. 1	H317

2.2 Elements of marking:

Warning symbol for the risk:



Danger.

H-phrases: H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H400 Very toxic to aquatic life.

P-phrases: P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection. P305+P351+P338 IF IN EYES: Rinse cautiously with

water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 If eye irritation persists: Get medical advice/attention. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P501 Dispose of container in accordance with local regulations.

Hazard determining components: 2-oktyltetrahydroisothiazol-3-on **Active substance:** 2,7 g/100 g Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides

2.3 Other hazards:

Mixture or components are not classified as PBT or vPvB. The components are not kept in Annex XIV. of the REACH Regulation or on the list of candidates for Annex XIV. of the REACH Regulation on the date of issue of the Safety Sheet.

SECTION 3. Composition / information about components

3.1 Substances: The product is mixture.

3.2 Mixtures: Microbiocide based on benzalkonium-chloride and octyl-isothiazolin.

Component identifier	Content in (%)	Index No. (CAS and ES number)	Classification acc. to 1272/2008
Diethyleneglycol	2,5 - 10	111-46-6, 203-872-2	STOT RE 2, H373; Acute Tox. 4, H302.
Quaternary ammonium compounds, benzyl (C12-C16), alkyl dimethyl, chlorides	2,5 - 10	68424-85-1, 270-325-2	Met. Corr. 1, H290; Skin Corr. 1B, H314; Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302.
2-oktyltetrahydroisothiazol-3-on	< 2,5	26530-20-1, 247-761-7	Acute Tox. 3, H311; Acute Tox. 3, H331, Skin Corr. 1B, H314; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302; Skin Sens. 1A, H317.

Supplement: The full text of P-phrases and H-phrases listed in Section No. 16.

SECTION 4. First aid instructions

- 4.1 Description of first aid:
- In the case of health problems or in the case of any problems, contact a doctor and provide information contained in this safety data sheet. The person performing first aid needs to protect himself. Take affected persons out of danger area and lay down. In case of irregular breathing or respiratory arrest provide artificial respiration. Immediately remove any clothing soiled by the product.
- When breathing: Ensure a supply of fresh air, ensure peace, prevent hypothermia. If problems continue then contact a doctor.
- In the case of contact with skin: Remove any contaminated clothes, wash the skin with soap and water and treat the affected area with a suitable reparation cream. If irritation persists seek medical attention.
- If affecting the eyes: Intensely rinse the eye with plenty of running potable water for at least 15 minutes with the lid open violently. Contact a doctor.
- In the case of ingestion: Place the affected person at rest, rinse mouth with water (only if the affected person is conscious), never induce vomiting, seek medical attention.
- 4.2 The most important acute and delayed symptoms and effects:
If any signs of irritation, due to contact with the product, will worsen, immediately call for medical assistance.
- 4.3 Instructions of any immediate medical attention and special treatment:
Special funds are not used, treatment is symptomatic.

SECTION 5. Measures during the liquidation of fire

- 5.1 Extinguishing agents:
- Suitable extinguishing agents: Water fog, splitting of water, foam and powder chemicals.
- Unsuitable extinguishing agents: Permanent water stream.
- 5.2 Special hazards arising from the substance or mixture:
- In case of fire may be released toxic combustion products, for example: Nitrogen oxides (NO_x), carbon monoxide (CO), sulfur dioxide (SO₂).
- 5.3 Instructions for firemen:
- Use protective equipment, depending on the nature of fire. Contaminated water must not enter drains. Liquidate the remainders of the fire with extinguishing water in accordance with local regulations in force.

SECTION 6. Measures in the case of accidental leakage

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| 6.1 Measures for personal precautions, protective equipment and emergency procedures: | Use the basic protective equipment (Section 8). Ensure adequate ventilation. Follow the normal working and hygienic regulations. Avoid contact with skin and eyes. |
| 6.2 Measures for environmental protection: | Prevent environmental contamination, contamination of surface water and sewer system, using sorption material. |
| 6.3 Methods and materials for reducing leakage and cleaning up: | The absorption with sand, sawdust or other absorption materials, mechanical pick up, deposit in a suitable container and dispose of as hazardous waste. Do not flush with water or aqueous cleansing agents containing water. |
| 6.4 Reference to other sections: | Information on safe handling see Section 7.
Information on personal protection equipment see Section 8.
Information on disposal see Section 13. |

SECTION 7. Handling and storage

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| 7.1 Precautions for safe handling: | Avoid contact with skin and eyes, use personal protective equipment. Handle the product according to technological instructions No. 07-007. Avoid release to the environment kept in containers that correspond to the original package, follow the instructions on the label of the product. |
| 7.2 Conditions for safe storage of substances and mixtures, including any incompatible substances and mixtures: | |
| Requirements for storage rooms and containers: | Store only in original container. |
| Information about mass storage conditions: | Store away from foodstuffs. |
| Further information about storage conditions: | Store in a dry place, away from direct sunlight, water and frost. |
| Recommended storage temperature: | 10 - 30 °C |
| 7.3 Final specific uses: | Unlisted. |

SECTION 8. Restriction of exposure / personal protective means

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| 8.1 Control parameters: | |
| Exposure limits according NV.No.361/2007 Coll., As amended: | Not specified. |
| 8.2 Exposure limitation: | Minimize leakage during handling, at workplace provide perfect ventilation. Before breaks and at the end of working hours to wash hands with soap and water. Do not eat, drink or smoke when using. Avoid contact with skin and eyes. Take off contaminated clothing. Precaution to protect the skin using cream. |
| Restriction of exposure to employees: | |
| Respiratory protection: | Not necessary, if perfect ventilation is ensured. |
| Eye protection: | Safety glasses. |
| Protection of hands: | Protective gloves. |
| Skin protection: | Protective work clothing. |
| Restriction of exposure to environment: | Close containers tightly again. Prevent leakage into soil and water. Wear the recommended instructions for use. |

SECTION 9. Physical and chemical properties

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| 9.1 Information about basic physical and chemical properties: | |
| Status of the matter: | Fluid. |
| Colour: | Colourless - yellowish. |
| Odour (scent): | Fine odour. |
| pH value: | 4.0 - 4.5 |
| Temperature (range of temperature) melting (°C): | Data is not available. |
| Temperature (range of temperature) for boiling (°C): | 100 °C |
| Inflammation point °C: | Not applicable. |
| Flammability: | Not applicable. |
| Pyrophoricity: | Not applicable. |
| Flammability limits: | |
| Flammability limits: upper limit (% vol.): | Not applicable. |

Flammability limits: lower limit (% vol.):	Data is not available.
Oxidation properties:	Data is not available.
Vapour tension (at °C):	23 mbar (Wasser)
Density (at 20°C):	1.000 - 1.010 g/cm ³
Solubility (at 20°C):	
- in water:	Not determined.
- in fats (including oil specification):	Not stated.
Dividing coefficient n-octanol/water:	Not stated.
Viscosity:	Not stated.
Density of vapours:	Not stated.
Speed of evaporation:	Not stated.
9.2 Further data:	Maximum VOC content in the product ready to use is 57 g/l mass.

SECTION 10. Stability and reactivity

10.1 Reactivity:	Under normal operating conditions, the mixture is stable.
10.2 Chemical stability:	Stable under normal temperatures and pressures.
10.3 Possibility of hazardous reactions:	No decomposition if used and stored as recommended.
10.4 Conditions which must be prevented:	Protect from wet and frost.
10.5 Incompatible materials:	Strong acids, hydroxides, oxidizing agents, anionic substance.
10.6 Hazardous decomposition products:	For storage prescribe and no more use.

SECTION 11. Toxicological information

11.1 Information on toxicological effects:	
a) Acute toxicity:	
- LD ₅₀ oral, rat (mg. kg ⁻¹):	> 5000
- LD ₅₀ dermal, rat or rabbit (mg . kg ⁻¹):	> 5000
- LD ₅₀ inhalation, rat, for aerosols or particles (mg . kg ⁻¹):	> 5 mg/l, 4h
- LC ₅₀ inhalation, rat, for gases and vapours (mg. kg ⁻¹):	No data available.
b) Causcity:	Mixture is not classified as caustic.
c) Irritable effect:	Mixture is classified as irritating to skin - in Annex I. CLP 1272/2008/EC, musous membrane, eyes - in Annex I. CLP 1272/2008/EC.
d) Sensitivity:	Contact skin sensitization possible. 26530-20-1 2-oktyltetrahydroisothiazol-3-on, sensitizing [OECD 429 (LLNA)] sensitising (Mouse).
e) Mutagenesis:	Mixture does not have classified any mutagenic effects.
f) Carcinogenicity:	Mixture does not have classified any carcinogenic effects.
g) Toxicity for reproduction:	Mixture is not classified as toxic for reproduction.
Other information:	Data is not available.

SECTION 12. Ecological information

12.1 Toxicity:	
- LC ₅₀ , 96 hour, fish (mg. l ⁻¹):	68424-85-1 Qaternary ammonium compounds, benzyl (C12-C16) alkyl dimethyl, chlorides 0.85 (Oncorhynchus mykiss) (OECD 203) S469 26530-20-1 2-oktyltetrahydroisothiazol-3-on 0.036 (Oncorhynchus mykiss) (OECD 203) S93
- EC ₅₀ , 48 hours, daphnia (mg. l ⁻¹):	68424-85-1 Qaternary ammonium compounds, benzyl (C12-C16) alkyl dimethyl, chlorides 0.016 (Daphnia magna) 26530-20-1 2-oktyltetrahydroisothiazol-3-on 0.42 (Daphnia magna) (OECD 202)
- IC ₅₀ , 72 hours, algae (mg. l ⁻¹):	Data is not available.
Other details:	Data is not available.

12.2 Other information:	<p>Working method: OECD 301 D (Closed bottle test). Analysing method oxygen consumption. The elimination stage: Components of the product are well-degradable waste from water. The degree of biodegradability:> 60%. The product is biologically difficult degradable. Behaviour in environmental systems: Components: Active ingredient OIT revealed biodegradability in the simulation test., Aerobic mineralization in surface water "according to the OECD test guide 309 at a concentration of 0.01 mg / l and 0.1 mg / l. OIT is rapidly flowing waters obouráno, DT50 (half decay = number of days to 50% degradation of the substance) is between 1 and 3 days. DT 90 value is equal to 3 and 5 days.</p>
12.3 Persistence and degradability:	<p>Very low potential for bioaccumulation (log Kow < 3). log Kow 2.9; OIT log Kow 0.5 - 1.58; BAC</p>
12.4 Bio-accumulating potential:	Data is not available.
12.5 Mobility in soil:	The mixture has no properties of PBT and vPvB.
12.6 Results of PBT and vPvB assessment:	Do not allow product to leak into ground water, catch basin or sewage system.

SECTION 13. Instructions for waste disposal

13.1 Waste treatment methods:	
a) Suitable methods for the mixture, or preparation and contaminated packaging disposal: Methods of disposal of contaminated packaging:	<p>Unused leftovers and the preparation captured in the release to absorbent material should be disposed of as hazardous waste in accordance with the regulations. Packaging of goods should be emptied as much as possible. Dispose as other impacts (150101 - Paper and cardboard packaging) in accordance with local regulations.</p>
b) Physical and chemical properties that may affect waste treatment options:	Not listed.
c) Eliminating waste disposal via sewer:	Waste water, containing this product should not get into the environmen without pretreatment with biological treatment plant. Keep out of sewers.
d) Special precautions recommended for waste management:	Not listed.

SECTION 14. Transport information

14.1 UN number:	3082
14.2 Proper shipping name for UN:	<p>ADR - 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID J. N. (Quarternary ammonium compounds, benzyl (C12-C16) alkyl dimethyl, chlorides). IMDG - ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Quarternary ammonium compounds, benzyl (C12-C16) alkyl dimethyl, chlorides), MARINE POLLUTANT IATA - ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Quarternary ammonium compounds, benzyl (C12-C16) alkyl dimethyl, chlorides).</p>

14.3 Class / Transport hazard class:



ADR - 9 (M6) Miscellaneous dangerous substances and articles.
IMDG, IATA - 9 Miscellaneous dangerous substances and articles.

14.4 Packing group:	ADR, IMDG, IATA: III
14.5 Warning board (Kemler):	Danger for the environment: Marine pollutant. Special marking (ADR, IATA) Symbol (fish and tree)
14.6 Special precautions for user:	Danger: Miscellaneous dangerous substances and articles. Kemlercode 90 EMS - group: F-A, S-F.
14.7 Bulk transport in according to Annex II of MARPOL 73/78 and the IBC Code:	Is not used.
Other details:	ADR - Limited quantity: 5l, Transport category 3, Tunnel restriction code E.

IATA - regulations on packaging / max. Net bottled unit: Airliner: 964 / 450 liters;
Cargo aircraft: 964/450 l
UN Model Regulation "": UN3082, ENVIRONMENTALLY HAZARDOUS
SUBSTANCE, LIQUID J. N. (Quaternary ammonium compounds, benzyl (C12-
C16) alkyl dimethyl, chlorides), 9, III.

SECTION 15. Information regarding regulations

15.1 Safety, health and environmental regulations / legislation specific for the substance or mixture:

Act 350/2011 Coll., on chemical substances and mixtures, and amending certain laws.

The implementing regulations for this Act:

EC Regulation 1907/2006 (REACH)

EC Regulation 1272/2008 (CLP)

15.2 Chemical safety assessment: Was not conducted.

SECTION 16. Other information

a) Changes in the Safety Sheet under review:

Changes to the previous version of the Safety Sheet: First edition Safety Data Sheet.

b) Key or legend to abbreviations:

RID: International regulations for the transport of dangerous goods by rail (The rules of the International Civil Aviation Organization).
ICAO: Organization of international civil aviation
PBT: Persistent, bioaccumulative, toxic.
vPvB: very persistent, very bioaccumulative.
ADR: European agreement concerning the carriage of dangerous goods by road
IMGD: International Maritime Dangerous Goods Code.
IATA: International Air Transport Association.
GHS: Globally Harmonized System of Classification and Labelling of Chemicals substances.
EINECS: European Inventory of Existing Commercial Chemical Substances.
ELINCS: European List of allowed chemicals.
LC50: Lethal Concentration 50%.
LD50: lethal dose, 50%.
Mett. Corr. 1: Corrosive for metals, the category 1.
Acute Tox. 4: Acute toxicity, category 4.
Acute Tox. 3: Acute toxicity, category 3.
Skin Corr. 1B: corrosion, skin irritation, Category 1B.
Skin Irrit. 2: corrosion, skin irritation, category 2.
Eye Dam. 1: Serious eye damage, category 1.
Eye Irrit. 2: Eye irritation category 2.
Skin Sens. 1: Skin sensitization, category 1.
Skin Sens. 1A: Skin sensitization, category 1A.
STOT RE 2: Toxicity to specific target organs, repeated exposure, category 2.
Aquatic Acute 1: Risk of water pollution, acute toxicity, category 1.
Aquatic Chronic 1: Risk of water pollution, chronic toxicity, category 1.

c) Key literature references and sources for data:

Information contained herein is based on our best knowledge and current legislation. This Safety Sheet has been further elaborated on the basis of the original Safety Sheet provided by the manufacturer.

d) List of applicable standard phrases of hazard and / or instructions for safe handling:

H290 - May be corrosive to metals.
H302 - Harmful if swallowed.
H311 - Toxic in contact with skin.
H314 - Causes severe skin burns and eye damage.
H317 - May cause an allergic skin reaction.
H318 - Causes serious eye damage.
H331 - Toxic if inhaled.
H373 - May cause damage to organs through prolonged or repeated exposure.
H400 - Very toxic to aquatic life.
H410 - Very toxic to aquatic life with long lasting effects.

e) Instructions for training:

Regular training for handling chemicals.

f) Other information:

This Safety Sheet contains data necessary for ensuring safety and protection of health at work and environmental protection. The data correspond to the current state of knowledge and experience and are in compliance with applicable laws and regulations. They cannot be considered a guarantee of the suitability of the product for specific applications. Handling the product is responsibility of the user. Workers who come into contact with hazardous substances or mixtures, shall be informed by the organization about in the necessary extent about the effects of these substances or mixtures, the way to treat them with the protective measures and the principles of first aid. Information about the properties of the product and its use can be found in the Product Data Sheet. This version invalidates all previous versions of the Safety Sheet.



WWW link