Safety data sheet
according to UK REACH

Printing date 16.01.2025 Version number 1.04 (replaces version 1.03) Revision: 16.01.2025

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

· **1.1 Product identifier**

· **Trade name:** **TENSAZYM FOAM**

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

· **Sector of Use** SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

· **Application of the substance / the mixture** Cleaning agent/ Cleaner
Suitable for use in the food and beverage industry

· **1.3 Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:** Tensio
Doornpark 36
9120 Beveren
Belgium
Tel.: +32 3 755 48 74
Fax.: +32 3 755 51 55
e-mail: info@tensio.be

· **Further information obtainable from:** Product Safety Departement: SDS@tensio.be

· **1.4 Emergency telephone number:** +44 700 393 7989
Members of the public seeking specific information on poisons should contact:
In England and Wales: NHS 111 - dial 111
In Scotland: NHS 24 - dial 111

2 Hazards identification

· **2.1 Classification of the substance or mixture**

· **Classification according to Regulation (EC) No 1272/2008**

Eye Dam. 1 H318 Causes serious eye damage.

· **2.2 Label elements**

· **Labelling according to Regulation (EC) No 1272/2008** The product is classified and labelled according to the GB CLP regulation.

· **Hazard pictograms**

GHS05

· **Signal word** Danger

(Contd. on page 2)

Safety data sheet
according to UK REACH

Printing date 16.01.2025 Version number 1.04 (replaces version 1.03) Revision: 16.01.2025

Trade name: TENSAZYM FOAM

(Contd. of page 1)

· **Hazard-determining components of labelling:** 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)
Subtilisin
· **Hazard statements** H318 Causes serious eye damage.
· **Precautionary statements**
P280 Wear eye protection / face 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.
P310 Immediately call a doctor.
· **Additional information:** 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.
· **2.3 Other hazards**
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.

3 Composition/information on ingredients

· **3.2 Mixtures**
· **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous components:**		
CAS: 68891-38-3 NLP: 500-234-8	Alcohols, C12-14, ethoxylated, sulfates, sodium salts Skin Irrit. 2, H315; Eye Irrit. 2, H319	≥2.5–<10%

(Contd. on page 3)

Tensio Food safety

Safety data sheet
according to UK REACH

Printing date 16.01.2025 Version number 1.04 (replaces version 1.03) Revision: 16.01.2025

Trade name: TENSAZYM FOAM

(Contd. of page 2)

CAS: 69011-36-5 Reg.nr.: 01-2119976362-32-XXXX	Isotridecanol, ethoxylated 9EO Eye Dam. 1, H318; Acute Tox. 4, H302	≥3–≤10%
CAS: 55965-84-9	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 Tox. 3, H301; Acute Tox. 2, H310; Acute Tox. 2, H330; Skin Corr. 1C, H314; Eye Dam. 1, H318; Aquatic Acute 1, H400 (M=100); Aquatic Chronic 1, H410 (M=100); Skin Sens. 1A, H317, EUH071 Specific concentration limits: Skin Corr. 1C;H314: C ≥ 0.6 % Skin Irrit. 2; H315: 0.06 % ≤ C < 0.6 % Eye Dam. 1; H318: C ≥ 0.6 % Eye Irrit. 2; H319: 0.06 % ≤ C < 0.6 % Skin Sens. 1A; H317: C ≥ 0.0015 %	≥0.00025–<0.0015%

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

4 First aid measures

· **4.1 Description of first aid measures**
· **General information:** Seek immediate medical advice.
· **After inhalation:** Take affected persons into fresh air and keep quiet.
· **After skin contact:** If skin irritation continues, consult a doctor.
· **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
· **After swallowing:** Rinse out mouth and then drink plenty of water.
· **4.2 Most important symptoms and effects, both acute and delayed** Eye contact: lesions, irritations, pain, tearing, redness.
Ingestion: burns, irritation, pain.
· **4.3 Indication of any immediate medical attention and special treatment needed** Treat symptomatically. An eyewash is recommended in the immediate work area.

5 Firefighting measures

· **5.1 Extinguishing media**
· **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.

(Contd. on page 4)

Tensio Food safety

Safety data sheet
according to UK REACH

Printing date 16.01.2025 Version number 1.04 (replaces version 1.03) Revision: 16.01.2025

Trade name: TENSAZYM FOAM

(Contd. of page 3)

· **5.2 Special hazards arising from the substance or mixture** In case of fire, the following can be released:
Carbon monoxide (CO)

· **5.3 Advice for firefighters**

· **Protective equipment:** Wear fully protective suit.

6 Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures** Wear protective equipment. Keep unprotected persons away.
Wear protective clothing.

· **6.2 Environmental precautions:** Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.

· **6.3 Methods and material for containment and cleaning up:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Use neutralising agent.
Dispose contaminated material as waste according to section 13.

· **6.4 Reference to other sections** See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

· **7.1 Precautions for safe handling** Do not refill residue into storage receptacles.
Work only in fume cupboard.
Avoid splashes or spray in enclosed areas.

· **Information about fire - and explosion protection:** No special measures required.

· **7.2 Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.
Store in a cool location.

· **Information about storage in one common storage facility:** Not required.

· **Further information about storage conditions:** Store in cool, dry conditions in well sealed receptacles.
Protect from heat and direct sunlight.
Protect from contamination.

(Contd. on page 5)

Safety data sheet
according to UK REACH

Printing date 16.01.2025 Version number 1.04 (replaces version 1.03) Revision: 16.01.2025

Trade name: TENSAZYM FOAM

(Contd. of page 4)

· **7.3 Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

· **8.1 Control parameters**
· **Ingredients with limit values that require monitoring at the workplace:** The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
· **Additional information:** The lists valid during the making were used as basis.

· **8.2 Exposure controls**
· **Appropriate engineering controls** No further data; see section 7.
· **Individual protection measures, such as personal protective equipment**
· **General protective and hygienic measures:** Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the eyes.
Avoid contact with the eyes and skin.
· **Respiratory protection:** Not required.
· **Hand protection**

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves** The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
Synthetic rubber gloves
Butyl rubber, BR
Recommended thickness of the material: ≥ 0.19 mm
Plastic gloves
· **Penetration time of glove material** The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
For the mixture of chemicals mentioned in header 3 the penetration time has to be at least 60 minutes (Permeation according to EN 374 Part 3: Level 1).
· **Eye/face protection**

Tightly sealed goggles

(Contd. on page 6)

Safety data sheet
according to UK REACH

Printing date 16.01.2025 Version number 1.04 (replaces version 1.03) Revision: 16.01.2025

Trade name: TENSAZYM FOAM

(Contd. of page 5)

· **Body protection:** Impervious protective clothing

9 Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**	
· **General Information**	
· **Physical state**	Fluid
· **Colour:**	Brown
· **Odour:**	Characteristic
· **Odour threshold:**	Not determined.
· **Melting point/freezing point:**	Undetermined.
· **Boiling point or initial boiling point and boiling range**	100 °C
· **Flammability**	Not applicable.
· **Lower and upper explosion limit**	
· **Lower:**	Not determined.
· **Upper:**	Not determined.
· **Flash point:**	> 100 °C
· **Decomposition temperature (SADT):**	Not determined.
· **pH at 20 °C**	9.6
· **Viscosity:**	
· **Kinematic viscosity**	Not determined.
· **Dynamic at 20 °C:**	<10 mPas
· **Solubility**	
· **water:**	Fully miscible.
· **Partition coefficient n-octanol/water (log value)**	Not determined.
· **Vapour pressure:**	Not determined.
· **Density and/or relative density**	
· **Density at 20 °C:**	1.048 g/cm³
· **Relative density**	Not determined.
· **Vapour density**	Not determined.
· **9.2 Other information**	
· **Appearance:**	
· **Form:**	Liquid
· **Important information on protection of health and environment, and on safety.**	
· **Ignition temperature:**	Product is not selfigniting.
· **Explosive properties:**	Product does not present an explosion hazard.
· **Change in condition**	
· **Evaporation rate**	Not determined.
· **Information with regard to physical hazard classes**	
· **Explosives**	Void

(Contd. on page 7)

Tensio Food safety

Safety data sheet
according to UK REACH

Printing date 16.01.2025 Version number 1.04 (replaces version 1.03) Revision: 16.01.2025

Trade name: TENSAZYM FOAM

(Contd. of page 6)

· **Flammable gases**	Void
· **Aerosols**	Void
· **Oxidising gases**	Void
· **Gases under pressure**	Void
· **Flammable liquids**	Void
· **Flammable solids**	Void
· **Self-reactive substances and mixtures**	Void
· **Pyrophoric liquids**	Void
· **Pyrophoric solids**	Void
· **Self-heating substances and mixtures**	Void
· **Substances and mixtures, which emit flammable gases in contact with water**	Void
· **Oxidising liquids**	Void
· **Oxidising solids**	Void
· **Organic peroxides**	Void
· **Corrosive to metals**	Void
· **Desensitised explosives**	Void

*
10 Stability and reactivity

· **10.1 Reactivity**	No further relevant information available.
· **10.2 Chemical stability**	Stable under the handling and storage conditions recommended in Chapter 7.
· **Thermal decomposition / conditions to be avoided:**	No decomposition if used according to specifications.
· **10.3 Possibility of hazardous reactions**	No dangerous reactions known.
· **10.4 Conditions to avoid**	High temperatures and direct sunlight
· **10.5 Incompatible materials:**	No further relevant information available.
· **10.6 Hazardous decomposition products:**	No dangerous decomposition products known.

11 Toxicological information

· **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
· **Acute toxicity** Based on available data, the classification criteria are not met.

· **LD/LC50 values relevant for classification:**		
ATE (Acute Toxicity Estimates)		
Oral	LD50	>7,500–50,000 mg/kg (rat)

CAS: 68891-38-3 Alcohols, C12-14, ethoxylated, sulfates, sodium salts		
Oral	LD50	2,870 mg/kg (rat) ECHA : Oral LD50 (OECD 401), rat = 2870 mg/kg bw

(Contd. on page 8)

Safety data sheet
according to UK REACH

Printing date 16.01.2025 Version number 1.04 (replaces version 1.03) Revision: 16.01.2025

Trade name: TENSAZYM FOAM

(Contd. of page 7)

Dermal	LD50	>2,000 mg/kg (rat) ECHA: Dermal LD50 (OECD 402), rat > 2000 mg/kg bw (limit test)
CAS: 69011-36-5 Isotridecanol, ethoxylated 9EO		
Oral	LD50	>300–2,000 mg/kg (rat) Waarde MW - KMU
Dermal	LD50	>2,000 mg/kg (rat)
CAS: 55965-84-9 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)		
Oral	LD50	100 mg/kg (ATE)
Dermal	LD50	50 mg/kg (ATE)
Inhalative	LC50/ 4h	0.05 mg/l (ATE)

· **Serious eye damage/irritation** Causes serious eye damage.
· **11.2 Information on other hazards**

· **Endocrine disrupting properties**
None of the ingredients is listed.

12 Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:**		
CAS: 68891-38-3 Alcohols, C12-14, ethoxylated, sulfates, sodium salts		
Oral	No Observed Effect Concentration	1.2 mg/l (Invertebrates) ECHA : In the key-study a NOEC for invertebrates of 0.27 mg/L for reproduction could be determined after 21 days of exposure. Nevertheless for the PNEC-calculation NOEC-values were determined on the basis of a QSAR-model based on chronic risk to invertebrates. The NOEC used for PNEC-calculation is determined to be 1.2 mg/L.
		0.14 mg/l (Oncorhynchus mykiss) ECHA : NOEC (28 d) for Oncorhynchus mykiss = 0.14 mg/L (measured) related to mortality and sublethal effects (similar to OECD 215)
	LC50/ 96h	7.1 mg/l (fish) ECHA : In the key-study a LC50-value for fish of 7.1 mg a.s./L could be determined after 96 h after exposure.
	EC50/ 48h	7.4 mg/l (Daphnia magna) ECHA : In the key-study an EC50-value for daphnids of 7.4 mg a.s./L could be determined after 48 h of exposure.
CAS: 69011-36-5 Isotridecanol, ethoxylated 9EO		
	EC50/ 48h	1–10 mg/l (Daphnia magna) (OECD 202)
	EC50/ 72h	>1–10 mg/l (Scenedesmus subspicatus)

(Contd. on page 9)

Safety data sheet
according to UK REACH

Printing date 16.01.2025 Version number 1.04 (replaces version 1.03) Revision: 16.01.2025

Trade name: TENSAZYM FOAM

(Contd. of page 8)

· **12.2 Persistence and degradability** No further relevant information available.
· **12.3 Bioaccumulative potential** No further relevant information available.
· **12.4 Mobility in soil** No further relevant information available.
· **12.5 Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.
· **12.6 Endocrine disrupting properties** The product does not contain substances with endocrine disrupting properties.
· **12.7 Other adverse effects**
· **Additional ecological information:**
· **General notes:** Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
Must not reach sewage water or drainage ditch undiluted or unneutralised.
The surfactants ingredients of the product are biodegradable according to the requirements of regulation 648/2004/EC.

13 Disposal considerations

· **13.1 Waste treatment methods**
· **Recommendation** Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packaging:**
· **Recommendation:** Disposal must be made according to official regulations.
· **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

14 Transport information

· **14.2 UN proper shipping name**
· **ADR, IMDG, IATA** Void
· **Class** Void
· **ADR, IMDG, IATA** Void
· **14.5 Environmental hazards:** Not applicable.
· **14.6 Special precautions for user** Not applicable.
· **14.7 Maritime transport in bulk according to IMO instruments** Not applicable.

(Contd. on page 10)

Safety data sheet
according to UK REACH

Printing date 16.01.2025 *Version number 1.04 (replaces version 1.03)* *Revision: 16.01.2025*

Trade name: TENSAZYM FOAM

(Contd. of page 9)

· **UN "Model Regulation":** Void

15 Regulatory information

· **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
· **Poisons Act**

· **Regulated explosives precursors**
None of the ingredients is listed.

· **Regulated poisons**
None of the ingredients is listed.

· **Reportable explosives precursors**
None of the ingredients is listed.

· **Reportable poisons**
None of the ingredients is listed.

· **Labelling according to Regulation (EC) No 1272/2008** The product is classified and labelled according to the GB CLP regulation.

· **Hazard pictograms**

GHS05

· **Signal word** Danger

· **Hazard-determining components of labelling:** 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)
Subtilisin

· **Hazard statements** H318 Causes serious eye damage.

· **Precautionary statements**
P280 Wear eye protection / face 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.
P310 Immediately call a doctor.

· **Directive 2012/18/EU**
· **Named dangerous substances - ANNEX I** None of the ingredients is listed.
· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

(Contd. on page 11)

Tensio Food safety

Safety data sheet according to UK REACH

Printing date 16.01.2025 Version number 1.04 (replaces version 1.03) Revision: 16.01.2025

Trade name: TENSAZYM FOAM

(Contd. of page 10)

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

H301 Toxic if swallowed.
H302 Harmful if swallowed.
H310 Fatal in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H330 Fatal if inhaled.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
EUH071 Corrosive to the respiratory tract.

· **Contact:** Wim Lampaert
MSc Chemistry

· **Abbreviations and acronyms:**
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
ATE: Acute toxicity estimate values
Acute Tox. 3: Acute toxicity – Category 3
Acute Tox. 4: Acute toxicity – Category 4
Acute Tox. 2: Acute toxicity – Category 2
Skin Corr. 1C: Skin corrosion/irritation – Category 1C
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Skin Sens. 1A: Skin sensitisation – Category 1A
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

· ***Data compared to the previous version altered.**