



SAFETY DATA SHEET FRESHEN FREE 10X

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

1.1. Product identifier

Product name FRESHEN FREE 10X

Product number 14996

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

Identified uses Cleaning agent. Professional

1.3. Details of the supplier of the safety data sheet

Supplier Univar Solutions UK Ltd
Aquarius House
6 Mid Point Business Park
Bradford
BD3 7AY
+44 1274 267300
+44 1274 267306
SDS.EMEA@univarsolutions.com

1.4. Emergency telephone number

Emergency telephone SGS - +32 (0)3 575 55 55 (24h)

Sds No. 14996

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified

Health hazards Eye Dam. 1 - H318 Skin Sens. 1 - H317

Environmental hazards Not Classified

2.2. Label elements

Hazard pictograms



Signal word Danger

Hazard statements
H318 Causes serious eye damage.
H317 May cause an allergic skin reaction.

FRESHEN FREE 10X

Precautionary statements

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
 P302+P352 IF ON SKIN: Wash with plenty of water.
 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 POISON CENTER/ doctor.
 P501 Dispose of contents/ container in accordance with national regulations.

Contains

ALCOHOLS, C12-14, ETHOXYLATED, AMIDES, COCO, N-[3-(DIMETHYLAMINO)PROPYL], N-OXIDES, 1,2-BENZISOTHIAZOL-3(2H)-ONE, 5-CHLORO-2-METHYL-2H-ISOTHIAZOL-3-ONE

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB. Organisms used are non-pathogenic but can cause infection when in contact with open wounds.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

SODIUM XYLENESULPHONATE			10 - 20%
CAS number: 1300-72-7	EC number: 215-090-9	REACH registration number: 01-2119513350-56-XXXX	
Classification Eye Irrit. 2 - H319			
CITRIC ACID			5 - 10%
CAS number: 5949-29-1	EC number: 201-069-1	REACH registration number: 01-2119457026-42-XXXX	
Classification Eye Irrit. 2 - H319 STOT SE 3 - H335			
AMIDES, COCO, N-[3-(DIMETHYLAMINO)PROPYL], N-OXIDES			1 - 2.5%
CAS number: 68155-09-9	EC number: 268-938-5		
Classification Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Dam. 1 - H318			
ALCOHOLS, C12-14, ETHOXYLATED			1 - 2.5%
CAS number: 68439-50-9	EC number: 500-213-3		
M factor (Acute) = 1			
Classification Eye Dam. 1 - H318 Aquatic Acute 1 - H400 Aquatic Chronic 3 - H412			

FRESHEN FREE 10X

DISODIUM LAURETH SULFOSUCCINATE			1 - 2.5%
CAS number: 39354-45-5			
Classification Skin Irrit. 2 - H315 Eye Irrit. 2 - H319			
SODIUM NITRATE			1 - 2.5%
CAS number: 7631-99-4	EC number: 231-554-3	REACH registration number: 01-2119488221-41-XXXX	
Classification Ox. Sol. 2 - H272 Eye Irrit. 2 - H319			
1,2-BENZISOTHIAZOL-3(2H)-ONE			<1%
CAS number: 2634-33-5	EC number: 220-120-9		
M factor (Acute) = 10			
Classification Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Skin Sens. 1 - H317 Aquatic Acute 1 - H400			
5-CHLORO-2-METHYL-2H-ISOTHIAZOL-3-ONE			0.005 - 0.05%
CAS number: 26172-55-4	EC number: 247-500-7		
M factor (Acute) = 1			
Classification Acute Tox. 2 - H300 Acute Tox. 2 - H310 Acute Tox. 2 - H330 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Skin Sens. 1 - H317 Aquatic Acute 1 - H400			

The full text for all hazard statements is displayed in Section 16.

Composition comments The data shown are in accordance with the latest EC Directives.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information Show this Safety Data Sheet to the medical personnel.

Inhalation Move affected person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort continues.

FRESHEN FREE 10X

Ingestion	Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse mouth thoroughly with water. Give plenty of water to drink. Get medical attention if any discomfort continues.
Skin contact	Remove affected person from source of contamination. Remove contaminated clothing. Rinse immediately with plenty of water. Get medical attention if any discomfort continues.
Eye contact	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention immediately. Continue to rinse.

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

Skin contact	May cause an allergic skin reaction. Organisms used are non-pathogenic but can cause infection when in contact with open wounds.
Eye contact	Causes serious eye damage. May cause permanent damage if eye is not immediately irrigated.

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

Notes for the doctor	Treat symptomatically. Effects may be delayed.
-----------------------------	--

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards	Organisms used are non-pathogenic but can cause infection when in contact with open wounds.
Hazardous combustion products	When heated, vapours/gases hazardous to health may be formed.

5.3. Advice for firefighters

Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.
--	---

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Wear protective clothing as described in Section 8 of this safety data sheet. Avoid inhalation of vapours and contact with skin and eyes. Avoid the formation of mists. Organisms used are non-pathogenic but can cause infection when in contact with open wounds.
-----------------------------	---

6.2. Environmental precautions

Environmental precautions	Do not discharge into drains or watercourses or onto the ground. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.
----------------------------------	--

6.3. Methods and material for containment and cleaning up

Methods for cleaning up	Avoid the spillage or runoff entering drains, sewers or watercourses. Absorb spillage with non-combustible, absorbent material. Collect and place in suitable waste disposal containers and seal securely.
--------------------------------	--

6.4. Reference to other sections

FRESHEN FREE 10X

Reference to other sections Wear protective clothing as described in Section 8 of this safety data sheet. For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Provide adequate ventilation. Avoid inhalation of vapours and contact with skin and eyes. Organisms used are non-pathogenic but can cause infection when in contact with open wounds.

Advice on general occupational hygiene Eye wash facilities and emergency shower must be available when handling this product. When using do not eat, drink or smoke. Wash after use and before eating, smoking and using the toilet. Remove contaminated clothing and protective equipment before entering eating areas. Take off immediately all contaminated clothing and wash it before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a dry, cool and well-ventilated place. Store at temperatures between 10°C and 25°C. Protect from sunlight. Keep container dry.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

SODIUM XYLENESULPHONATE (CAS: 1300-72-7)

Ingredient comments	No exposure limits known for ingredient(s).
DNEL	Workers - Inhalation; Long term systemic effects: 26.9 mg/m ³ Workers - Dermal; Long term systemic effects: 136.25 mg/kg/day Workers - Dermal; Long term local effects: 0.096 mg/cm ² General population - Dermal, Inhalation; Long term systemic effects: 6.6 mg/m ³ General population - Dermal; Long term systemic effects: 68.1 mg/kg General population - Dermal; Long term local effects: 0.048 mg/cm ² General population - Oral; Long term systemic effects: 3.8 mg/kg/day
PNEC	- Fresh water; 0.23 mg/l - marine water; 0.023 mg/l - Intermittent release; 2.3 mg/l - STP; 100 mg/l - Sediment (Freshwater); 0.862 mg/kg - Sediment (Marinewater); 0.0862 mg/kg - Soil; 0.037 mg/kg

CITRIC ACID (CAS: 5949-29-1)

Ingredient comments	No exposure limits known for ingredient(s).
PNEC	- Fresh water; 0.44 mg/l - marine water; 0.044 mg/l - Sediment (Freshwater); 7.52 mg/kg - Sediment (Marinewater); 0.752 mg/kg - Soil; 29.2 mg/kg

SODIUM NITRATE (CAS: 7631-99-4)

FRESHEN FREE 10X

DNEL

Industry - Inhalation; Long term systemic effects: 36.7 mg/m³
 Industry - Dermal; Long term systemic effects: 20.8 mg/kg/day
 Consumer - Dermal; Long term systemic effects: 12.5 mg/kg/day
 Consumer - Inhalation; Long term systemic effects: 10.9 mg/m³
 Consumer - Oral; Long term systemic effects: 12.5 mg/kg/day

PNEC

- Fresh water; 0.45 mg/l
 - marine water; 0.045 mg/l
 - Intermittent release; 4.5 mg/l
 - STP; 18 mg/l

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate ventilation. Observe any occupational exposure limits for the product or ingredients. Eye wash facilities and emergency shower must be available when handling this product.

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Unless the assessment indicates a higher degree of protection is required, the following protection should be worn: Chemical splash goggles or face shield. Personal protective equipment for eye and face protection should comply with European Standard EN166.

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. To protect hands from chemicals, gloves should comply with European Standard EN374.

Other skin and body protection

Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene measures

When using do not eat, drink or smoke. Wash after use and before eating, smoking and using the toilet. Remove contaminated clothing and protective equipment before entering eating areas. Take off immediately all contaminated clothing and wash it before reuse.

Respiratory protection

Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Ensure all respiratory protective equipment is suitable for its intended use and is 'CE'-marked.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Off-white. Light brown.
Odour	Slight.
Odour threshold	No information available.
pH	pH (concentrated solution): 8
Melting point	No information available.
Initial boiling point and range	No information available.
Flash point	No information available.

FRESHEN FREE 10X

Evaporation rate	No information available.
Evaporation factor	No information available.
Flammability (solid, gas)	No information available.
Upper/lower flammability or explosive limits	No information available.
Other flammability	No information available.
Vapour pressure	No information available.
Vapour density	No information available.
Relative density	1.16
Bulk density	No information available.
Solubility(ies)	Miscible with water.
Partition coefficient	No information available.
Auto-ignition temperature	No information available.
Decomposition Temperature	No information available.
Viscosity	No information available.
Explosive properties	No information available.
Explosive under the influence of a flame	No information available.
Oxidising properties	No information available.

9.2. Other information

Other information	Not determined.
-------------------	-----------------

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	There are no known reactivity hazards associated with this product.
------------	---

10.2. Chemical stability

Stability	Stable at normal ambient temperatures.
-----------	--

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Not determined.
------------------------------------	-----------------

10.4. Conditions to avoid

Conditions to avoid	Avoid the formation of mists. Keep container dry. Protect from sunlight.
---------------------	--

10.5. Incompatible materials

Materials to avoid	None known.
--------------------	-------------

10.6. Hazardous decomposition products

Hazardous decomposition products	Does not decompose when used and stored as recommended. When heated, vapours/gases hazardous to health may be formed.
----------------------------------	---

SECTION 11: Toxicological information

FRESHEN FREE 10X

11.1. Information on toxicological effects

Acute toxicity - oral

ATE oral (mg/kg) 20,000.0

Skin corrosion/irritation

Skin corrosion/irritation No information available.

Serious eye damage/irritation

Serious eye damage/irritation Causes serious eye damage.

Respiratory sensitisation

Respiratory sensitisation No information available.

Skin sensitisation

Skin sensitisation May cause an allergic skin reaction.

Germ cell mutagenicity

Genotoxicity - in vitro No information available.

Carcinogenicity

Carcinogenicity No information available.

Reproductive toxicity

Reproductive toxicity - fertility No information available.

Specific target organ toxicity - single exposure

STOT - single exposure No information available.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure No information available.

Aspiration hazard

Aspiration hazard No information available.

Inhalation Gas or vapour in high concentrations may irritate the respiratory system.

Ingestion The product irritates mucous membranes and may cause abdominal discomfort if swallowed.

Skin contact May cause an allergic skin reaction. Organisms used are non-pathogenic but can cause infection when in contact with open wounds.

Eye contact Causes serious eye damage.

Toxicological information on ingredients.

SODIUM XYLENESULPHONATE

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 7,200.0

Species Rat

ATE oral (mg/kg) 7,200.0

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ 2000 mg/kg, Dermal, Rabbit

Acute toxicity - inhalation

FRESHEN FREE 10X

Acute toxicity inhalation (LC₅₀ dust/mist mg/l) 6.41

Species Rat

ATE inhalation (dusts/mists mg/l) 6.41

Reproductive toxicity

Reproductive toxicity - fertility - NOAEL >3000 mg/kg, Oral, Rat

Reproductive toxicity - development - NOAEL: >3000 mg/kg, , Rat

Specific target organ toxicity - repeated exposure

STOT - repeated exposure NOAEL 763-3534 mg/kg, Oral, Rat

Inhalation May cause respiratory system irritation.

Ingestion Gastrointestinal symptoms, including upset stomach.

Skin contact Slightly irritating.

Eye contact Irritating to eyes. Symptoms following overexposure may include the following:
Redness. Pain.

CITRIC ACID

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 5,400.0

Species Mouse

ATE oral (mg/kg) 5,400.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 2,000.0

Species Rat

Skin corrosion/irritation

Skin corrosion/irritation No information available.

Serious eye damage/irritation

Serious eye damage/irritation Irritating to eyes.

Respiratory sensitisation

Respiratory sensitisation No information available.

Skin sensitisation

Skin sensitisation No information available.

Germ cell mutagenicity

FRESHEN FREE 10X

Genotoxicity - in vitro Negative.

Genotoxicity - in vivo Negative.

Carcinogenicity

Carcinogenicity Based on available data the classification criteria are not met.

Reproductive toxicity

Reproductive toxicity - fertility Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

STOT - single exposure May cause respiratory irritation.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure No information available.

Aspiration hazard

Aspiration hazard Based on available data the classification criteria are not met.

Inhalation May cause respiratory irritation.

Ingestion May cause discomfort if swallowed.

Skin contact Powder may irritate skin.

Eye contact Irritating to eyes.

AMIDES, COCO, N-[3-(DIMETHYLAMINO)PROPYL], N-OXIDES

Acute toxicity - oral

ATE oral (mg/kg) 500.0

Skin corrosion/irritation

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/irritation

Serious eye damage/irritation Causes serious eye damage.

Respiratory sensitisation

Respiratory sensitisation Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro This substance has no evidence of mutagenic properties.

SODIUM NITRATE

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 3,430.0

Species Rat

Notes (oral LD₅₀) OECD 401

Acute toxicity - dermal

FRESHEN FREE 10X

Acute toxicity dermal (LD₅₀) 5,000.0 mg/kg)

Species Rat

Notes (dermal LD₅₀) OECD 402

Skin corrosion/irritation

Animal data OECD 404 Not irritating.

Serious eye damage/irritation

Serious eye damage/irritation Causes serious eye irritation.

Respiratory sensitisation

Respiratory sensitisation No information available.

Skin sensitisation

Skin sensitisation Local Lymph Node Assay (LLNA) - Mouse: OECD 429 Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro No information available.

Carcinogenicity

Carcinogenicity No information available.

IARC carcinogenicity IARC Group 2A Probably carcinogenic to humans.

Reproductive toxicity

Reproductive toxicity - fertility - NOAEL 1500 mg/kg/day, Oral,

Reproductive toxicity - development Teratogenicity: - NOAEL: 1500 mg/kg/day, Oral,

Specific target organ toxicity - single exposure

STOT - single exposure No information available.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure NOAEL 1500 mg/kg, Oral, Rat

Aspiration hazard

Aspiration hazard No information available.

Inhalation Dust in high concentrations may irritate the respiratory system. Vapour from this product may be hazardous by inhalation. Inhalation of vapour or mist may cause lung oedema.

Ingestion May cause discomfort if swallowed.

Skin contact Powder may irritate skin.

Eye contact May cause severe eye irritation.

1,2-BENZISOTHIAZOL-3(2H)-ONE

Toxicological effects Harmful if swallowed.

FRESHEN FREE 10X

Acute toxicity - oral

Acute toxicity oral (LD₅₀
mg/kg) 454.0

Species Rat

ATE oral (mg/kg) 454.0

Skin corrosion/irritation

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/irritation

Serious eye
damage/irritation Causes serious eye damage.

Skin sensitisation

Skin sensitisation - Guinea pig: Sensitising. OECD 406

Germ cell mutagenicity

Genotoxicity - in vitro This substance has no evidence of mutagenic properties.

5-CHLORO-2-METHYL-2H-ISOTHIAZOL-3-ONE

Toxicological effects Fatal if inhaled. Fatal if swallowed. Fatal in contact with skin.

Acute toxicity - oral

ATE oral (mg/kg) 6.0

Acute toxicity - dermal

ATE dermal (mg/kg) 51.0

Acute toxicity - inhalation

ATE inhalation
(dusts/mists mg/l) 0.06

Skin corrosion/irritation

Skin corrosion/irritation Causes burns.

Serious eye damage/irritation

Serious eye
damage/irritation Causes serious eye damage.

Respiratory sensitisation

Respiratory sensitisation Not sensitising.

Skin sensitisation

Skin sensitisation Sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro This substance has no evidence of mutagenic properties. OECD 471 OECD 476

SECTION 12: Ecological information

Ecotoxicity The product is not expected to be hazardous to the environment. However, large or frequent spills may have hazardous effects on the environment.

Ecological information on ingredients.

FRESHEN FREE 10X

SODIUM XYLENESULPHONATE

Ecotoxicity The product components are not classified as environmentally hazardous. However, large or frequent spills may have hazardous effects on the environment.

CITRIC ACID

Ecotoxicity The product components are not classified as environmentally hazardous. However, large or frequent spills may have hazardous effects on the environment.

SODIUM NITRATE

Ecotoxicity The product components are not classified as environmentally hazardous. However, large or frequent spills may have hazardous effects on the environment.

12.1. Toxicity

Toxicity No information available.

Ecological information on ingredients.

SODIUM XYLENESULPHONATE

Toxicity Not considered toxic to fish.

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: > 400 (Pimales promelas) mg/l, Fish

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: > 408 mg/l, Daphnia magna

Acute toxicity - aquatic plants IC₅₀, 72 hours: 310 mg/l, Algae

CITRIC ACID

Toxicity Not considered toxic to fish.

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 440 - 706 mg/l, Fish

Acute toxicity - aquatic invertebrates EC₅₀, 24 hours: 1535 mg/l, Daphnia magna

AMIDES, COCO, N-[3-(DIMETHYLAMINO)PROPYL], N-OXIDES

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 1 - 10 mg/l, Fish

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 1 - 10 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC₅₀, 72 hours: 1 - 10 mg/l, Algae

ALCOHOLS, C12-14, ETHOXYLATED

Acute aquatic toxicity

LE(C)₅₀ 0.1 < L(E)C₅₀ ≤ 1

FRESHEN FREE 10X

M factor (Acute)	1
Acute toxicity - fish	LC ₅₀ , 96 hours: 1.2 mg/l, Fish
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 0.53 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC ₅₀ , 72 hours: 0.41 mg/l, Algae

SODIUM NITRATE

Toxicity	Not considered toxic to fish.
<u>Acute aquatic toxicity</u>	
Acute toxicity - fish	LC ₅₀ , 96 hours: 6650 mg/l, Fish
Acute toxicity - aquatic invertebrates	EC ₅₀ , 24 hours: 6000 mg/l, Daphnia magna
Acute toxicity - microorganisms	EC ₅₀ , 3 hours: > 1000 mg/l, Activated sludge

1,2-BENZISOTHIAZOL-3(2H)-ONE

<u>Acute aquatic toxicity</u>	
LE(C)₅₀	0.01 < L(E)C ₅₀ ≤ 0.1
M factor (Acute)	10
Acute toxicity - fish	LC ₅₀ , 96 hours: 2.18 mg/l, Fish
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 2.94 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC ₅₀ , 72 hours: 0.11 mg/l, Algae OECD 201
Acute toxicity - microorganisms	EC ₅₀ , 3 hours: 13 mg/l, Activated sludge

5-CHLORO-2-METHYL-2H-ISOTHIAZOL-3-ONE

<u>Acute aquatic toxicity</u>	
LE(C)₅₀	0.1 < L(E)C ₅₀ ≤ 1
M factor (Acute)	1
Acute toxicity - fish	LC ₅₀ , 96 hours: 0.1 - 1 mg/l, Fish OECD 203
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 0.1 - 1 mg/l, Daphnia magna OECD 202
Acute toxicity - aquatic plants	EC ₅₀ , 72 hours: 0.01 - 0.1 mg/l, Algae

12.2. Persistence and degradability

Persistence and degradability Inherently biodegradable.

Ecological information on ingredients.

FRESHEN FREE 10X

SODIUM XYLENESULPHONATE

Persistence and degradability There are no data on the degradability of this product.

CITRIC ACID

Persistence and degradability The product is biodegradable.

Biological oxygen demand 0.526 g O₂/g substance

Chemical oxygen demand 0.728 g O₂/g substance

ALCOHOLS, C12-14, ETHOXYLATED

Persistence and degradability The product is readily biodegradable.

SODIUM NITRATE

Persistence and degradability There are no data on the degradability of this product.

1,2-BENZISOTHIAZOL-3(2H)-ONE

Persistence and degradability Inherently biodegradable.

5-CHLORO-2-METHYL-2H-ISOTHIAZOL-3-ONE

Persistence and degradability The product is readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential Bioaccumulation is unlikely.

Partition coefficient No information available.

Ecological information on ingredients.

SODIUM XYLENESULPHONATE

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient log Pow: -1.1

CITRIC ACID

Bioaccumulative potential The product does not contain any substances expected to be bioaccumulating.

Partition coefficient log Pow: -1.8 - -0.2

SODIUM NITRATE

Bioaccumulative potential The product is not bioaccumulating.

Partition coefficient No information available.

FRESHEN FREE 10X

1,2-BENZISOTHIAZOL-3(2H)-ONE

Bioaccumulative potential The product is not bioaccumulating.

12.4. Mobility in soil

Mobility No information available.

Ecological information on ingredients.

SODIUM XYLENESULPHONATE

Mobility The product is soluble in water.

CITRIC ACID

Mobility The product is soluble in water.

SODIUM NITRATE

Mobility The product is soluble in water.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

Ecological information on ingredients.

CITRIC ACID

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

SODIUM NITRATE

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

1,2-BENZISOTHIAZOL-3(2H)-ONE

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

12.6. Other adverse effects

Other adverse effects Not determined.

Ecological information on ingredients.

SODIUM XYLENESULPHONATE

Other adverse effects Not determined.

CITRIC ACID

Other adverse effects Not determined.

SODIUM NITRATE

Other adverse effects Not available.

FRESHEN FREE 10X

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Waste is classified as hazardous waste. Do not puncture or incinerate, even when empty. Do not discharge into drains or watercourses or onto the ground.

Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

SECTION 14: Transport information

General The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

No transport warning sign required.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78

and the IBC Code

SECTION 15: Regulatory information

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

EU legislation Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).
Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).
Commission Regulation (EU) No 2015/830 of 28 May 2015.

15.2. Chemical safety assessment

Not applicable.

SECTION 16: Other information

FRESHEN FREE 10X

Abbreviations and acronyms used in the safety data sheet

ATE: Acute Toxicity Estimate.
 ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
 ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.
 CAS: Chemical Abstracts Service.
 DNEL: Derived No Effect Level.
 IATA: International Air Transport Association.
 IMDG: International Maritime Dangerous Goods.
 Kow: Octanol-water partition coefficient.
 LC₅₀: Lethal Concentration to 50 % of a test population.
 LD₅₀: Lethal Dose to 50% of a test population (Median Lethal Dose).
 PBT: Persistent, Bioaccumulative and Toxic substance.
 PNEC: Predicted No Effect Concentration.
 REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.
 RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.
 vPvB: Very Persistent and Very Bioaccumulative.
 IARC: International Agency for Research on Cancer.
 MARPOL 73/78: International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978.
 cATpE: Converted Acute Toxicity Point Estimate.
 BCF: Bioconcentration Factor.
 BOD: Biochemical Oxygen Demand.
 EC₅₀: 50% of maximal Effective Concentration.
 LOAEC: Lowest Observed Adverse Effect Concentration.
 LOAEL: Lowest Observed Adverse Effect Level.
 NOAEC: No Observed Adverse Effect Concentration.
 NOAEL: No Observed Adverse Effect Level.
 NOEC: No Observed Effect Concentration.
 LOEC: Lowest Observed Effect Concentration.
 DMEL: Derived Minimal Effect Level.
 EL50: Exposure Limit 50
 hPa: Hectopascal
 LL50: Lethal Loading fifty
 OECD: Organisation for Economic Co-operation and Development
 POW: Octanol-water partition coefficient
 SCBA: self-contained breathing apparatus
 STP: Sewage Treatment Plant
 VOC: Volatile Organic Compounds

Classification abbreviations and acronyms

Acute Tox. = Acute toxicity
 Aquatic Acute = Hazardous to the aquatic environment (acute)
 Aquatic Chronic = Hazardous to the aquatic environment (chronic)

Key literature references and sources for data

Supplier's information.

Classification procedures according to Regulation (EC) 1272/2008

Skin Sens. 1 - H317, Eye Dam. 1 - H318: Calculation method.

Revision comments

NOTE: Lines within the margin indicate significant changes from the previous revision.

Revision date

13/04/2022

FRESHEN FREE 10X

Version number	3.000
Supersedes date	16/08/2019
SDS number	14996
SDS status	Approved.
Hazard statements in full	H272 May intensify fire; oxidiser. H300 Fatal 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. H335 May cause respiratory irritation. H400 Very toxic to aquatic life. H412 Harmful to aquatic life with long lasting effects.
Signature	J Spenceley

This 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. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.