SECTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name : STAR BRITE POWER PINE WASH & WAX
Product code : 947XX

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

Application : SU21 Consumer product. PC35 Cleaning agent. Other vehicle (all types) cleaning and care products.

1.3. Details of the supplier of the safety data sheet

Supplier : Star brite Nederland B.V.
Kryptonweg 7
NL-3812 RZ Amersfoort, The Netherlands
Telephone : +31(0)337853616
E-mail : info@starbrite.nl
Website : http://www.starbrite.nl

Manufacturer : Star Brite Europe, LLC.
4041 SW 47TH AVE
33314 Fort Lauderdale, FL
United States of America
Telephone : +1 954 587 6280
E-mail : europe@starbrite.com

1.4. Emergency telephone number

EMERGENCY TELEPHONE NUMBER, for DOCTORS/FIRE BRIGADE/POLICE only:
NL - Telephone : +31(0)337853616 (During office hours only)

EMERGENCY TELEPHONE NUMBER (for DOCTORS only):
National Poisons Information Service +44 344 892 0111 (24/7)

SECTION 2 HAZARDS IDENTIFICATION *

2.1. Classification of the substance or mixture

CLP classification (1272/2008/EC) : Skin irritation, category 2. Serious eye damage, category 1. Skin sensitization, category 1. Hazardous to the aquatic environment — Chronic category 3.

Human health hazards : Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage.
Physical/chemical hazards : Not classified as dangerous according to statutory EC-Directives.
Environmental hazards : Harmful to aquatic life with long lasting effects.

2.2. Label elements

Label elements ((EU) 1272/2008):
Hazard pictograms :

Signal word : Danger

H- and P-phrases : H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.

H412	Harmful to aquatic life with long lasting effects.
P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P280	Wear protective gloves/ eye protection or face protection.
P261	Avoid breathing vapours.
P302+P352	IF ON SKIN: Wash with plenty of water/soap.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
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.
P362+P364	Take off contaminated clothing and wash it before reuse.
P273	Avoid release to the environment.
P501	Dispose of contents/container to an official chemical waste depot.

Labelling of packagings where the contents do not exceed 125 ml and it is technically impossible to list all phrases:

Hazard pictograms :

Signal word : Danger

H- and P-phrases :

H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H412	Harmful to aquatic life with long lasting effects.
P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P261	Avoid breathing vapours.
P280	Wear protective gloves/ eye protection or face protection.
P302+P352	IF ON SKIN: Wash with plenty of water/soap.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
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.
P362+P364	Take off contaminated clothing and wash it before reuse.
P501	Dispose of contents/container to an official chemical waste depot.

Additional labelling (for all packaging sizes)

: Contains: Sulfuric acid, mono-C10-16-alkyl esters, sodium salts ; N,N-bis(2-hydroxyethyl)dodecanamide ; Pine oil ; Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts ; 1,2-Benzisothiazol-3(2H)-one ; Reaction mass of: 5-chloro-2- methyl-4- isothiazolin-3 -one and 2-methyl-2H -isothiazol-3- one (3:1) (0,0014) (preservative) .

: 2 per cent of the mixture consists of component(s) of unknown acute toxicity. Contains 2 % of components with unknown hazards to the aquatic environment.

Ingredient declaration according to Regulation EC 648/2004:

Contains:	Concentration (%)
Anionic surfactants	15 - 30
Non-ionic surfactants , Amphoteric surfactants , Aliphatic hydrocarbons	< 5
Benzisothiazolinone, Methylchloroisothiazolinone, Methylisothiazolinone.	

2.3. Other hazards

Other information : Does not contain PBT or vPvB substances in concentrations higher than 0,1%. Human health: This product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Regulation (EU) 2017/2100 or Regulation (EU) 2018/605 at levels of 0.1% or higher. Environment: This product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Regulation (EU) 2017/2100 or Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS *

3.2. Mixtures

Product description : Mixture.

Information on hazardous substances:

Substance name	Concentration (w/w) (%)	CAS nr.	EC number	Remark	REACH nr.
Sulfuric acid, mono-C10-16-alkyl esters, sodium salts	10 - < 20	68585-47-7	271-557-7		
N,N-bis(2-hydroxyethyl)dodecanamide	3 - < 10	120-40-1	204-393-1		
Pine oil	2,5 - < 5	8002-09-3	938-945-4		
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	1 - < 5	68439-57-6	270-407-8		
2,2'-iminodiethanol	0,1 - < 1	111-42-2	203-868-0		
Dodecan-1-ol	0,1 - < 1	112-53-8	203-982-0		
N,N-Dimethyldodecylamine N-oxide	0,1 - < 1	1643-20-5	216-700-6		
1,2-Benzisothiazol-3(2H)-one	< 0,036	2634-33-5	220-120-9		
Reaction mass of: 5-chloro-2- methyl-4 - isothiazolin-3-one and 2-methyl-2H - isothiazol-3- one (3:1)	< 0,0015	55965-84-9	611-341-5		

Substance name	Hazard Class	H-phrases	Pictograms	
Sulfuric acid, mono-C10-16-alkyl esters, sodium salts	Acute Tox. 4; Skin Irrit. 2; Eye Dam. 1; Aquatic Chronic 3	H302; H315; H318; H412	GHS05; GHS07	
N,N-bis(2-hydroxyethyl)dodecanamide	Skin Irrit. 2; Eye Dam. 1; Aquatic Chronic 2	H315; H318; H411	GHS05; GHS09	
Pine oil	Flam. Liq. 3; Asp. Tox. 1; Skin Irrit. 2; Skin Sens. 1; Eye Irrit. 2; Aquatic Chronic 2	H226; H304; H315; H317; H319; H411	GHS02; GHS07; GHS08; GHS09	
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	Skin Irrit. 2; Eye Dam. 1	H315; H318	GHS05	H318 : C >= 38 % H319 : C >= 5 % H315 : C >= 5 %
2,2'-iminodiethanol	Acute Tox. 4; Skin Irrit. 2; Eye Dam. 1; STOT RE 2	H302; H315; H318; H373	GHS05; GHS07; GHS08	
Dodecan-1-ol	Eye Irrit. 2; Aquatic Acute 1; Aquatic Chronic 2	H319; H400; H411	GHS07; GHS09	M (acute) = 1
N,N-Dimethyldodecylamine N-oxide	Acute Tox. 4; Skin Irrit. 2; Eye Dam. 1; Aquatic Acute 1; Aquatic Chronic 2	H302; H315; H318; H400; H411	GHS05; GHS07; GHS09	M (acute) = 1
1,2-Benzisothiazol-3(2H)-one	Acute Tox. 4; Skin Irrit. 2; Eye Dam. 1; Skin Sens. 1A; Acute Tox. 2; Aquatic Acute 1; Aquatic Chronic 1	H302; H315; H318; H317; H330; H400; H410	GHS05; GHS06; GHS07; GHS09	M (acute) = 1 M (chronic) = 1 inhalation: ATE = 0,21 mg/L (dusts or mists) oral: ATE = 450 mg/kg bw H317 : C >= 0,036 %

Reaction mass of: 5-chloro-2- methyl-4 - isothiazolin-3-one and 2-methyl-2H - isothiazol-3- one (3:1)	Acute Tox. 3; Acute Tox. 2; Skin Corr. 1C; Skin Sens. 1A; Eye Dam. 1; Acute Tox. 2; Aquatic Acute 1; Aquatic Chronic 1	H301; H310; H314; H317; H318; H330; H400; H410	GHS05; GHS06; GHS07; GHS09	M (acute) = 100 M (chronic) = 100 H317 : C >= 0,0015 % H319 : C >= 0,06 % H315 : C >= 0,06 % H314 B : C >= 0,6 % H318 : C >= 0,6 %

Occupational exposure limit(s), if relevant, are listed in section 8.

Reference is made to chapter 16 for full text of each relevant H phrase.

SECTION 4 FIRST-AID MEASURES

4.1. Description of first aid measures

First aid measures

Inhalation : Move victim into fresh air. Consult a doctor if victim feels unwell.

Skin contact : Take off contaminated clothing. Wash off skin with plenty of water before product dries up. Consult a doctor if irritation occurs.

Eye contact : Wash out with (lukewarm) water for at least 15 minutes. Remove contact lenses. Consult a doctor immediately.

Ingestion : Do not induce vomiting. Do rinse the mouth. Give one glass of water. Give condensed milk or a knob of butter. Never give anything by mouth to an unconscious person. Consult a doctor if victim feels unwell.

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

Effects and symptoms

Inhalation : May cause headache, dizziness and a feeling of sickness.

Skin contact : Irritant. May cause redness and irritation, sensitisation. May produce an allergic reaction. May cause dry skin.

Eye contact : Strongly irritant. Irreversible effects on the eye/serious damage to eyes. May cause redness and severe pain.

Ingestion : May cause a feeling of sickness, vomiting and diarrhoea.

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

Note to physicians : None known.

SECTION 5 FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media

Suitable : Carbondioxide (CO_2). Foam. Dry chemical. Water fog.

Not suitable : Use of heavy stream of water may spread fire.

5.2. Special hazards arising from the substance or mixture

Special exposure hazards : None known.

Hazardous thermal decomposition and combustion products : Carbon monoxide may be evolved if incomplete combustion occurs.

5.3. Advice for firefighters

Special protective equipment for fire-fighters : Use adequate respiratory equipment in case of insufficient ventilation.

SECTION 6 ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions : Danger of slipping. Clean up spills immediately. Wear shoes with non-slip soles. Avoid contact with spilled or released material. Vapours are heavier than air. Build up (of gasses) in low areas involves risk of suffocation.

6.2. Environmental precautions

Environmental precautions : Avoid release of product into sewers, surface water and/or ground water. In case of large spills: contain with dike. Waste product should not be allowed to contaminate soil or water.

Other information : Notify authorities if any exposure to the general public or the environment occurs or is likely to occur.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Collect spilled material in containers. Absorb residues in sand or other inert material. Dispose at an authorised waste collection point. Wash away remainder with plenty of water.

6.4. Reference to other sections

Reference to other sections : See also section 8.

SECTION 7 HANDLING AND STORAGE

7.1. Precautions for safe handling

Handling : Handle in accordance with good occupational hygiene and safety practices in well-ventilated areas. Do not breathe vapour. Avoid contact with skin and eyes. Avoid splashing. Wear protective clothing.

7.2. Conditions for safe storage, including any incompatibilities

Storage : Keep frost-free, in a cool, dry and well-ventilated place. Keep away from oxidizing agents.

Recommended packaging : Keep only in the original container.

Non recommended packaging : Steel (except stainless steel).

7.3. Specific end use(s)

Use : Use only as directed. Do not mix with other products.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits : Occupational exposure limits have not been established for this product. Derived no-effect levels (DNEL) have not been established for this product. Predicted no-effect concentrations (PNEC) have not been established for this product.

Workplace exposure limits (mg/m³):

Chemical name	Country	TWA 8 hour (mg/m3)	STEL 15 min (mg/m3)	Comments	Source
2,2'-iminodiethanol Dodecan-1-ol		2 155	- 		MAC: DK, FI, B, ES MAC: DE

Derived no-effect level (DNEL) for workers:

Chemical name	Route of exposure	DNEL, short-term		DNEL, long-term	
		Local effect	Systemic effect	Local effect	Systemic effect

N,N-bis(2-hydroxyethyl)dodecanamide	Inhalation				73,4 mg/m3
	Dermal			0,031 mg/kg bw/ day	8,33 mg/kg bw/day
2,2'-iminodiethanol	Dermal				0,13 mg/kg bw/day
	Inhalation			1 mg/m3	
Dodecan-1-ol	Inhalation				313 mg/m3
	Dermal			44,5 mg/kg bw/ day	89 mg/kg bw/day
N,N-Dimethyldodecylamine N-oxide	Inhalation				6,2 mg/m3
	Dermal				11 mg/kg bw/day
1,2-Benzisothiazol-3(2H)-one	Inhalation				6.81 mg/m3
	Dermal				0.966 mg/kg bw/day
Reaction mass of: 5-chloro-2- methyl-4 - isothiazolin-3-one and 2-methyl-2H - isothiazol-3- one (3:1)	Inhalation	0,04 mg/m3		0,02 mg/m3	

Derived no-effect level (DNEL) for consumers:

Chemical name	Route of exposure	DNEL, short-term		DNEL, long-term	
		Local effect	Systemic effect	Local effect	Systemic effect
N,N-bis(2-hydroxyethyl)dodecanamide	Inhalation				21,73 mg/m3
	Dermal			0,012 mg/kg bw/ day	5 mg/kg bw/day
	Oral				6,25 mg/kg bw/day
2,2'-iminodiethanol	Dermal				0,07 mg/kg bw/day
	Oral				0,06 mg/kg bw/day
	Inhalation			0,25 mg/m3	
Dodecan-1-ol	Inhalation				77 mg/m3
	Oral				44,5 mg/kg bw/day
N,N-Dimethyldodecylamine N-oxide	Inhalation				1,53 mg/m3
	Dermal				5,5 mg/kg bw/day
	Oral				0,44 mg/kg bw/day
1,2-Benzisothiazol-3(2H)-one	Inhalation				1.2 mg/m3
	Dermal				0.345 mg/kg bw/day
Reaction mass of: 5-chloro-2- methyl-4 - isothiazolin-3-one and 2-methyl-2H - isothiazol-3- one (3:1)	Oral		0,11 mg/kg bw		0,09 mg/kg bw/day
	Inhalation	0,04 mg/m3		0,02 mg/m3	

Predicted no-effect concentration (PNEC):

Chemical name	Route of exposure	Fresh water	Marine water	
N,N-bis(2-hydroxyethyl)dodecanamide	Water	0,007 mg/l	0,001 mg/l	
	Sediment	0,053 mg/kg	0,005 mg/kg	
	STP			830 mg/l
	Soil			0,006 mg/kg
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	Intermittent water			0,042 mg/l
2,2'-iminodiethanol	Water	0,0022 mg/l	0,00022 mg/l	
	Sediment	0,019 mg/kg	0,0019 mg/kg	
	Intermittent water			0,022 mg/l
	STP			100 mg/l
	Soil			0,00108 mg/kg
Dodecan-1-ol	Water	2,8 mg/l	0,28 mg/l	
N,N-Dimethyldodecylamine N-oxide	Water	0,034 mg/l	0,003 mg/l	
	Sediment	5,24 mg/kg	0,524 mg/kg	
	STP			24 mg/l
	Soil			1,02 mg/kg
	Oral			11,1 mg/kg food

1,2-Benzisothiazol-3(2H)-one	Water	0.00403 mg/l	0.000403 mg/l	
	Sediment	0.0499 mg/kg	0.00499 mg/kg	
	STP			1.03 mg/l
	Soil			3 mg/kg
Reaction mass of: 5-chloro-2- methyl-4 - isothiazolin-3-one and 2-methyl-2H - isothiazol-3- one (3:1)	Water	0.00339 mg/l	0.00339 mg/l	
	Sediment	0.027 mg/kg	0.027 mg/kg	
	STP			0.23 mg/l
	Soil			0.01 mg/kg

8.2. Exposure controls

Engineering measures : Use only in well-ventilated areas. Comply with standard precautionary measures for working with chemicals.

Hygienic measures : When using do not eat, drink or smoke.

Personal protective equipment:
The efficiency of personal protective equipment depends among other things on temperature and degree of ventilation. Always get professional advice for the particular local situation.

:

Body protection : Wear appropriate protective clothing, overalls or suit, and similar boots in accordance with EN 365/367 resp. 345. Suitable material: nitril. Indication of permeation breakthrough time: 6 hours.

Respiratory protection : Take care of sufficient ventilation. Wear suitable respiratory protection in case of large scale exposure. Suitable: gas filter type A (brown), class I or higher on e.g. a facemask in accordance with EN 140.

Hand protection : Wear appropriate safety gloves in accordance with EN 374. Suitable material: nitril. ± 0,5 mm. Indication of permeation breakthrough time: 6 hours.

Eye protection : Wear appropriate safety glasses with side shields, in accordance with EN 166.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES *

9.1. Information on basic physical and chemical properties

Physical state	: Liquid.	
Colour	: Blue.	
Odour	: Characteristic.	
Odour threshold	: Not known.	
pH	: 9	
Solubility in water	: Soluble.	
Partition coefficient (n-octanol/water)	: Not applicable.	Contains surfactants. The O/W system emulsifies. Not measured. Not relevant for mixtures.
Flash point	: > 100 °C	
Flammability (solid, gas)	: Not applicable.	Liquid. See flashpoint.
Auto ignition temperature	: > 275 °C	
Boiling point/boiling range	: > 100 °C	
Melting point/melting range	: 0 °C	
Explosive properties	: Not explosive.	
Explosion limits (% in air)	: Not known.	
Oxidising properties	: Not applicable.	Does not contain oxidizing substances.
Decomposition temperature	: Not applicable.	
Viscosity (20°C)	: 5000 mm2/sec	(1 mm2/sec = 1cSt)
Viscosity (40°C)	: Not relevant.	The product contains < 10% substances having an aspiration hazard.
Vapour pressure (20°C)	: Not known.	

Relative vapour density	:	Not known	(air = 1)
Relative density (20°C)	:	1,01 g/ml	
Particle characteristics	:	Not applicable.	Liquid.

9.2. Other information

Other information : Not relevant.

SECTION 10 STABILITY AND REACTIVITY

10.1. Reactivity

Reactivity : See sub-sections below.

10.2. Chemical stability

Stability : Stable under normal conditions.

10.3. Possibility of hazardous reactions

Reactivity : No other hazardous reactions known.

10.4. Conditions to avoid

Conditions to avoid : See section 7.

10.5. Incompatible materials

Materials to avoid : Keep away from oxidizing agents.

10.6. Hazardous decomposition products

Hazardous decomposition products : Not known.

SECTION 11 TOXICOLOGICAL INFORMATION *

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

No toxicological research has been carried out on this product.

Inhalation

- Acute toxicity : Calculated LC50: > 10 mg/l. Ingredients of unknown toxicity: 24 %. ATE: > 5 mg/l. Low toxicity. Not classified - based on available data, the classification criteria are not met. May cause headache, dizziness and a feeling of sickness.
- Corrosion/irritation : Not classified - based on available data, the classification criteria are not met.
- Sensitisation : Does not contain substances classified as respiratory sensitiser. Not classified - based on available data, the classification criteria are not met.
- Carcinogenicity : Does not contain carcinogenic substances. Not classified - based on available data, the classification criteria are not met.
- Mutagenicity : Does not contain mutagenic substances. Not classified - based on available data, the classification criteria are not met.

Skin contact

- Acute toxicity : Calculated LD50: > 5000 mg/kg.bw. Ingredients of unknown toxicity: 2 %. ATE: > 5000 mg/kg.bw. Low toxicity. Not classified - based on available data, the classification criteria are not met.
- Corrosion/irritation : Irritant. May cause redness. Prolonged contact may dry out and defat the skin.
- Sensitisation : May cause sensitisation by skin contact. May produce an allergic reaction.
- Mutagenicity : Does not contain mutagenic substances. Not classified - based on available data, the classification criteria are not met.

Eye contact

- Corrosion/irritation : Risk of serious damage to eyes.

Ingestion

Acute toxicity	:	Calculated LD50: > 5000 mg/kg.bw. Ingredients of unknown toxicity: 2 %. ATE: > 2000 mg/kg.bw. Low toxicity. Not classified - based on available data, the classification criteria are not met.
Aspiration	:	Contains a substance/substances with an aspiration hazard. Not classified - based on available data, the classification criteria are not met.
Corrosion/irritation	:	May cause a feeling of sickness, vomiting and diarrhoea.
Carcinogenicity	:	Does not contain carcinogenic substances. Not classified - based on available data, the classification criteria are not met.
Mutagenicity	:	Does not contain mutagenic substances. Not classified - based on available data, the classification criteria are not met.
Reprotoxicity	:	Development: Not expected to be reprotoxic. Development: Not classified - Based on available data, the classification criteria are not met. Fertility: not expected to be reprotoxic. Fertility: Not classified - based on available data, the classification criteria are not met.

Toxicological information:

Chemical name	Property		Method	Test animal
Sulfuric acid, mono-C10-16-alkyl esters, sodium salts	LD50 (oral) - estimate	> 1000 mg/kg bw	-----	-----
	Skin irritation - estimate	Severely irritant	-----	
	Eye irritation - estimate	Severely irritant		Rabbit
	Skin sensitisation - estimate	Not sensitizing		
N,N-bis(2-hydroxyethyl)dodecanamide	LD50 (oral)	> 5000 mg/kg bw	-----	Rat
	NOAEL (oral)	250 mg/kg bw/d		Rat
	Skin sensitisation	Not sensitizing		-----
	Skin irritation	Irritant		Rabbit
	Eye irritation	Severely irritant		Rabbit
	NOEL (carcinogenicity, oral)	> 100 mg/kg bw/d		Rat
Pine oil	NOAEL (development, oral)	600 mg/kg bw/d		
	Genotoxicity - in vivo	Not genotoxic		
	Genotoxicity - in vitro	Not genotoxic		
	Mutagenicity	Negative		
	LD50 (dermal)	400 mg/kg bw		Rabbit
	LC50 (inhalation)	3790 mg/m3		Rat
	LD50 (oral)	> 1000 mg/kg bw	-----	Rat
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	LD50 (dermal)	> 2000 mg/kg bw		Rat
	LD50 (oral)	578 mg/kg bw	OECD 401	Rat
	Skin irritation	Irritant	OECD 404	
	Eye irritation	Severely irritant	OECD 405	
	Skin sensitisation	Not sensitizing	OECD 406	Guinea pig
	NOAEL (oral)	93 mg/kg bw/d		Rat
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	Genotoxicity - in vitro	Not genotoxic	OECD 473	
	NOEL (carcinogenicity, dermal)	Not carcinogenic		Rat
	NOEL (carcinogenicity, oral)	195 mg/kg bw/d		Rat
	LC50 (inhalation)	> 52000 mg/m3		Rat
	NOAEL (development, oral)	600 mg/kg bw/d		Mouse
1,2-Benzisothiazol-3(2H)-one	LD50 (oral)	670 mg/kg bw	OECD 401	Rat
	Skin irritation	Irritant		Rabbit
	Eye irritation	Severely irritant		Rabbit
	Skin sensitisation	Sensitizing.	OECD 406	Guinea pig
	NOAEL (oral)	30 mg/kg bw/d	OECD 408	Rat

	Genotoxicity - in vitro	Genotoxic	OECD 473	
	Genotoxicity - in vivo	250 mg/kg bw/d	OECD 474	Mouse
	NOAEL (development, oral)	Not teratogenic		
	NOAEL (fertility, oral)	24 mg/kg bw/d		Rat
	LD50 (dermal)	> 4115 mg/kg bw	OECD 402	Rat
	NOEL (carcinogenicity) - estimate	450 mg/kg.d	ATE	
	LC50 (inhalation) - estimate	210 mg/m3	ATE	
Reaction mass of: 5-chloro-2- methyl-4 - isothiazolin-3-one and 2-methyl-2H - isothiazol-3- one (3:1)	NOAEL (development, oral)	2,8 mg/kg bw/d	-----	Rat
	Mutagenicity	Not mutagenic	-----	
	NOEL (carcinogenicity, oral)	Not carcinogenic	OECD 453	Rat
	NOEL (inhalation)	0,34 mg/m3	OECD 413	Rat
	NOAEL (dermal)	0,104 mg/kg bw/d	-----	Rat
	Skin sensitisation	Sensitizing.	-----	Guinea pig
	Eye irritation	Corrosive.	-----	Rabbit
	Skin irritation	Corrosive.	-----	Rabbit
	NOAEL (oral)	2,8 mg/kg bw/d		Rat
	LD50 (dermal)	> 75 mg/kg bw	-----	Rabbit
	LD50 (oral)	59 mg/kg bw	-----	Rat
	LC50 (inhalation)	> 1169 mg/m3		Rat

11.2. Information on other hazards

Endocrine disrupting properties : This product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Regulation (EU) 2017/2100 or Regulation (EU) 2018/605 at levels of 0.1% or higher.

Other information : Not applicable.

SECTION 12 ECOLOGICAL INFORMATION *

12.1. Toxicity

No ecotoxicological research has been carried out on this product.

Ecotoxicity : Harmful to aquatic organisms. Calculated LC50 (fish): 4 mg/l. Calculated EC50 (waterflea): 21 mg/l. Contains 2 % of components with unknown hazards to the aquatic environment.

12.2. Persistence and degradability

Persistence – degradability : May cause long-term adverse effects in the aquatic environment. The surfactants contained in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) 648/2004 on detergents.

12.3. Bioaccumulative potential

Bioaccumulative potential : No specific information known.

12.4. Mobility in soil

Mobility : If product enters soil, it will be highly mobile and may contaminate groundwater.

12.5. Results of PBT and vPvB assessment

PBT/vPvB assessment : Does not contain PBT or vPvB substances in concentrations higher than 0,1%.

12.6. Endocrine disrupting properties

Endocrine disrupting properties	:	This product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Regulation (EU) 2017/2100 or Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7. Other adverse effects

Other adverse effects	:	Not applicable.

Ecological information:

Chemical name	Property		Method	Test animal
Sulfuric acid, mono-C10-16-alkyl esters, sodium salts	Ultimate aerobic biodegradation (%)	> 60 %	Read across	
	NOEC (daphnids) - estimate	> 0,1 mg/l.d	-----	-----
	LC50 (fish) - estimate	> 1 mg/l	-----	
N,N-bis(2-hydroxyethyl)dodecanamide	Ultimate aerobic biodegradation (%)	> 70 %		
	LC50 (fish) - estimate	2,4 mg/l	-----	-----
	NOEC (fish) - estimate	1 mg/l.d	-----	-----
	EC50 (waterflea) - estimate	3,2 mg/l	-----	-----
Pine oil	LC50 (fish)	18 mg/l		Oncorhynchus mykiss
	EC50 (waterflea)	24 mg/l		Daphnia magna
Reaction mass of: 5-chloro-2- methyl-4 - isothiazolin-3-one and 2-methyl-2H - isothiazol-3- one (3:1)	Ultimate aerobic biodegradation (%)	0,3 %	OECD 301 B	
	LC50 (fish)	0,19 mg/l	OECD 203	Oncorhynchus mykiss
	IC50 (algea)	0,027 mg/l	OECD 201	Pseudokirchnerella subcapitata
	NOEC (waterflea) - chronic	0,1 mg/l.d	-----	Daphnia magna
	EC50 (waterflea)	0,16 mg/l	OECD 202	Daphnia magna
	NOEC (fish)	0,05 mg/l.d	-----	Oncorhynchus mykiss
	Log P(ow)	0,4		

SECTION 13 DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Product residues	:	Do not dispose empty pack with waste produced by households. Containers may be recycled. Treat product residues and non-empty pack as hazardous waste.
Additional warning	:	None.
Waste water discharge	:	Do not dispose of into the environment, drains, sewers or water courses.
European waste catalogue	:	Dispose hazardous waste in accordance with Directive 91/689/EEC under acknowledgement of a waste code according to Commission Decision 2000/532/EC to an official chemical waste depot.
Local legislation	:	Disposal should be in accordance with applicable regional, national, and local laws and regulations. Local regulations may be more stringent than regional or national requirements and must be complied with.

SECTION 14 TRANSPORT INFORMATION

14.1. UN number or ID number

UN nr.	:	None.

14.2. UN proper shipping name

Transport name	:	Not regulated.

14.3/14.4/14.5. Transport hazard class(es)/Packing group/Environmental hazards

ADR/RID/ADN (road/railway/inland waterways)

Class : This product is not classified according to ADR/RID/ADN.

IMDG (sea)

Class : This product is not classified according to IMDG.

Marine pollutant : No

IATA (air)

Class : This product is not classified according to IATA.

14.6. Special precautions for user

Other information : Country specific variations may apply.

14.7. Maritime transport in bulk according to IMO instruments

Marpol : Not intended to be carried in bulk according to International Maritime Organisation (IMO) instruments. Packaged liquids are not considered bulk.

SECTION 15 REGULATORY INFORMATION

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

Community regulations : Regulation (EU) No 2020/878 (REACH), Regulation (EC) No 1272/2008 (CLP) and other regulations. Regulation (EC) No 648/2004 (detergents). Directive 2008/98/EC (waste).

15.2. Chemical safety assessment

Chemical safety assessment : Not applicable.

SECTION 16 OTHER INFORMATION *

16.1. Other information

The information in this safety data sheet is compiled in compliance with Regulation (EU) No 2020/878 dated 18 June 2020 and accurate to the best of our knowledge and experience at the date of issue specified. It is the user's obligation to use this product safely and to comply with all applicable laws and regulations concerning the use of the product. This safety data sheet complements the technical information sheets but does not replace them and offers no warranty with regard to product properties.

Users are also forewarned for any hazards involved when the product is used for other purposes than those for which it is designed.

Changed or new information with regard to the previous release is indicated with an asterisk (*).

List of abbreviations and acronyms that could be used (but not necessarily are used) in this safety data sheet:

ADR : European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE : Acute Toxicity Estimate
CLP : Classification, Labeling & Packaging
CMR : Carcinogenic, Mutagenic or toxic for Reproduction
EEC : European Economic Community
GHS : Globally Harmonized System of Classification and Labelling of Chemicals
IATA : International Air Transport Association
IBC code : The IMO International Code for construction and equipment of ships carrying dangerous chemicals in bulk.
IMDG : International Maritime Dangerous Goods Code
LD50/LC50 : Lethal Dose/Concentration for 50% of a population
MAC : Maximum Allowable Concentration
MARPOL : International Convention for the Prevention of Pollution From Ships
NO(A)EL : No Observed (Adverse) Effect Level

OECD	:	Organisation for Economic Co-operation and Development
PBT	:	Persistent, Bioaccumulative and Toxic
PC	:	Chemical product category
PT	:	Product type
REACH	:	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	:	Regulations concerning the International Carriage of Dangerous Goods by Rail
STP	:	Sewage Treatment Plant
SU	:	Sector of Use
TWA/STEL	:	Time-Weighted Average/Short Term Exposure Limit
UN	:	United Nations
UFI	:	Unique formula identifier
VOC	:	Volatile Organic Compounds
vPvB	:	Very Persistent and Very Bioaccumulative

Key data used to compile the Safety Data Sheet are from, but not limited to, one or more sources of information e.g. toxicological data from material suppliers, CONCAWE, IFRA, CESIO, Regulation EG 1272/2008, etc.

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008:

Skin Irrit. 2	:	Calculation method.
Eye Dam. 1	:	Calculation method.
Skin Sens. 1/1A/1B	:	Calculation method.
Aquatic Chronic 3	:	Calculation method.

Full text of hazard classes mentioned in section 3:

Flam. Liq. 3	:	Flammable liquid, category 3.
Acute Tox. 3	:	Acute toxicity, category 3.
Acute Tox. 4	:	Acute toxicity, category 4.
Skin Corr. 1A/B/C	:	Skin corrosive, category 1A/B/C.
Skin Irrit. 2	:	Skin irritation, category 2.
Eye Dam. 1	:	Serious eye damage, category 1.
Eye Irrit. 2	:	Eye irritation, category 2.
Skin Sens. 1/1A/1B	:	Skin sensitization, category 1/1A/1B.
STOT RE 2	:	Specific target organ toxicity — repeated exposure, category 2.
Asp. Tox. 1	:	Aspiration hazard, category 1.
Aquatic Chronic 1	:	Hazardous to the aquatic environment — Chronic category 1.
Aquatic Chronic 2	:	Hazardous to the aquatic environment — Chronic category 2.
Aquatic Chronic 3	:	Hazardous to the aquatic environment — Chronic category 3.
Aquatic Acute 1	:	Hazardous to the aquatic environment — Acute category 1.

Full text of H-phrases mentioned in section 3:

H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H310	Fatal in contact with skin.
H330	Fatal if inhaled.
H304	May be fatal if swallowed and enters airways.
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.
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.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Advice on any training appropriate for workers: none.

Country / Language code	:	GB / EN
Number format	:	"," used as decimal separator.

End of safety data sheet.