

**NIELSEN**

SAFETY DATA SHEET CITRUS CLEANER & DEGREASER

According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended.

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

1.1. Product identifier

Product name	CITRUS CLEANER & DEGREASER
Internal identification	L111
UFI	UFI: QH90-209U-Q006-U3MA

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

Identified uses	Cleaning agent.
Uses advised against	Use only for intended applications.

1.3. Details of the supplier of the safety data sheet

Supplier	NIELSEN CHEMICALS RAWDON ROAD, MOIRA, SWADLINCOTE, DERBYSHIRE, DE12 6DA, ENGLAND TEL: +44 (0) 1283 222277 info@nielsenchemicals.com
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1.4. Emergency telephone number

Emergency telephone	+44 (0) 777 8505 330 (24 hrs).
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (SI 2019 No. 720)

Physical hazards	Not Classified
Health hazards	Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Skin Sens. 1 - H317
Environmental hazards	Aquatic Chronic 3 - H412

2.2. Label elements

Hazard pictograms



Signal word	Danger
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CITRUS CLEANER & DEGREASER

Hazard statements	H315 Causes skin irritation. H318 Causes serious eye damage. H317 May cause an allergic skin reaction. H412 Harmful to aquatic life with long lasting effects.
Precautionary statements	P280 Wear protective gloves, eye and 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. P302+P352 IF ON SKIN: Wash with plenty of water. P333+P313 If skin irritation or rash occurs: Get medical advice/ attention. P310 Immediately call a POISON CENTER/ doctor. P501 Dispose of contents/ container in accordance with national regulations.
Supplemental label information	Contains (S)-p-mentha-1,8-diene, BETA PINENES. May produce an allergic reaction.
UFI	UFI: QH90-209U-Q006-U3MA
Contains	SODIUM DODECYL BENZENE SULPHONATE, (R)-p-mentha-1,8-diene
Detergent labelling	< 5% aliphatic hydrocarbons, < 5% anionic surfactants, < 5% EDTA and salts thereof, < 5% non-ionic surfactants, < 5% phosphonates, Contains LIMONENE, BENZISOTHIAZOLINONE, METHYLISOTHIAZOLINONE

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

(2-methoxymethylethoxy) propanol	1-5%
CAS number: 34590-94-8	EC number: 252-104-2

Classification

Not Classified

SODIUM DODECYL BENZENE SULPHONATE	1-5%
CAS number: 85117-50-6	EC number: 285-600-2

Classification

Acute Tox. 4 - H302

Skin Irrit. 2 - H315

Eye Dam. 1 - H318

SODIUM SILICATE	1-5%
CAS number: 1344-09-8	EC number: 215-687-4

Classification

Met. Corr. 1 - H290

Skin Irrit. 2 - H315

Eye Dam. 1 - H318

STOT SE 3 - H335

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(R)-p-mentha-1,8-diene		1-5%
CAS number: 5989-27-5	EC number: 227-813-5	
M factor (Acute) = 1	M factor (Chronic) = 1	
Classification		
Flam. Liq. 3 - H226		
Skin Irrit. 2 - H315		
Skin Sens. 1 - H317		
Asp. Tox. 1 - H304		
Aquatic Acute 1 - H400		
Aquatic Chronic 1 - H410		
Tetrasodium ethylene diamine tetraacetate		<1%
CAS number: 64-02-8	EC number: 200-573-9	
Classification		
Acute Tox. 4 - H302		
Acute Tox. 4 - H332		
Eye Dam. 1 - H318		
STOT RE 2 - H373		
ALCOHOL C9-11 ETHOXYLATE		<1%
CAS number: 68439-46-3		
Classification		
Acute Tox. 4 - H302		
Eye Dam. 1 - H318		
tetrasodium N,N-bis(carboxylatomethyl)-L-glutamate		<1%
CAS number: 51981-21-6	EC number: 257-573-7	
Classification		
Not Classified		
Tetrasodium (1-hydroxyethylidene)bisphosphonic acid		<1%
CAS number: 3794-83-0	EC number: 223-267-7	
Classification		
Acute Tox. 4 - H302		
Eye Irrit. 2 - H319		

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BETA PINENES	<1%
CAS number: 127-91-3	EC number: 204-872-5
Classification Flam. Liq. 3 - H226 Skin Irrit. 2 - H315 Skin Sens. 1B - H317 Asp. Tox. 1 - H304	
(S)-p-mentha-1,8-diene	<1%
CAS number: 5989-54-8	EC number: 227-815-6
M factor (Acute) = 1	M factor (Chronic) = 1
Classification Flam. Liq. 3 - H226 Skin Irrit. 2 - H315 Skin Sens. 1 - H317 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410	

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information	Show this Safety Data Sheet to the medical personnel. Get medical attention if any discomfort continues. If medical advice is needed, have product container or label at hand. Effects may be delayed.
Inhalation	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.
Ingestion	Rinse mouth thoroughly with water. Do not induce vomiting. Get medical attention.
Skin contact	Rinse immediately with plenty of water. Get medical attention if symptoms are severe or persist after washing.
Eye contact	Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

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

Inhalation	Coughing, chest tightness, feeling of chest pressure.
Ingestion	Gastrointestinal symptoms, including upset stomach.
Skin contact	Causes skin irritation. May cause an allergic skin reaction.
Eye contact	May cause serious eye damage.

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

Notes for the doctor	Treat symptomatically.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Use fire-extinguishing media suitable for the surrounding fire.
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5.2. Special hazards arising from the substance or mixture

Hazardous combustion products Thermal decomposition or combustion products may include the following substances: Ammonia or amines. Carbon monoxide (CO). Carbon dioxide (CO₂). Nitrous gases (NO_x).

5.3. Advice for firefighters

Protective actions during firefighting No specific firefighting precautions known.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure procedures and training for emergency decontamination and disposal are in place. No action shall be taken without appropriate training or involving any personal risk. Keep unnecessary and unprotected personnel away from the spillage. Evacuate area. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Do not touch or walk into spilled material. Avoid contact with skin, eyes and clothing. Take care as floors and other surfaces may become slippery. Provide adequate ventilation. Avoid contact with contaminated tools and objects. Do not handle broken packages without protective equipment. Wash thoroughly after dealing with a spillage.

6.2. Environmental precautions

Environmental precautions Do not discharge into drains or watercourses or onto the ground.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Absorb spillage with non-combustible, absorbent material. Collect and place in suitable waste disposal containers and seal securely. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Clean contaminated objects and areas thoroughly, observing environmental regulations. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage.

6.4. Reference to other sections

Reference to other sections Wear protective clothing as described in Section 8 of this safety data sheet.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Observe any occupational exposure limits for the product or ingredients. Wear protective gloves, eye and face protection. Avoid contact with skin, eyes and clothing. Avoid breathing spray. Avoid release to the environment. Do not reuse empty containers. Do not empty into drains. Do not eat, drink or smoke when using this product. Avoid contact with contaminated tools and objects. Do not handle broken packages without protective equipment. Wash hands thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store at temperatures between 4°C and 40°C.

Storage class Miscellaneous hazardous material storage.

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

Occupational exposure limits

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(2-methoxymethylethoxy) propanol

Long-term exposure limit (8-hour TWA): WEL 50 ppm 308 mg/m³

Sk

SODIUM SILICATE

Short-term exposure limit (15-minute): WEL 2 mg/m³

WEL = Workplace Exposure Limit.

Sk = Can be absorbed through the skin.

(2-methoxymethylethoxy) propanol (CAS: 34590-94-8)

DNEL Industry - Dermal; Long term : 65 mg/kg/day
 Industry - Inhalation; Long term : 310 mg/m³
 Consumer - Inhalation; Long term : 37.2 mg/m³
 Consumer - Dermal; Long term : 15 mg/kg/day
 Consumer - Oral; Long term : 1.67 mg/kg/day

PNEC - Fresh water; 19 mg/l
 - marine water; 1.9 mg/l
 - Intermittent release; 19 mg/l
 - STP; 4168 mg/l
 - Sediment (Freshwater); 70.2 mg/kg
 - Sediment (Marinewater); 7.02 mg/kg
 - Soil; 2.74 mg/kg

SODIUM SILICATE (CAS: 1344-09-8)

DNEL Industry - Inhalation; Long term systemic effects: 5.61 mg/m³
 Industry - Dermal; Long term systemic effects: 1.59 mg/kg/day
 Consumer - Inhalation; Long term systemic effects: 1.38 mg/m³
 Consumer - Dermal; Long term systemic effects: 0.8 mg/kg/day
 Consumer - Oral; Long term systemic effects: 0.8 mg/kg/day

PNEC Fresh water; 7.5 mg/l
 marine water; 1 mg/l
 Intermittent release; 7.5 mg/l
 STP; 348 mg/l

Tetrasodium ethylene diamine tetraacetate (CAS: 64-02-8)

DNEL Workers - Inhalation; Long term systemic effects, local effects: 1.5 mg/m³
 Workers - Inhalation; Short term systemic effects, local effects: 3 mg/m³
 Consumer - Inhalation; Long term local effects, systemic effects: 0.6 mg/m³
 Consumer - Inhalation; Short term systemic effects, local effects: 1.2 mg/m³
 Consumer - Oral; Long term local effects, systemic effects: 25 mg/m³

PNEC - Fresh water; 2.2 mg/l
 - marine water; 0.22 mg/l
 - Intermittent release; 1.2 mg/l
 - STP; 43 mg/l
 - Soil; 0.72 mg/kg

ALCOHOL C9-11 ETHOXYLATE (CAS: 68439-46-3)

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DNEL	Workers - Inhalation; Long term systemic effects: 294 mg/m ³
	Workers - Dermal; Long term systemic effects: 2080 mg/kg/day
	General population - Inhalation; Long term systemic effects: 87 mg/m ³
	General population - Dermal; Long term systemic effects: 1250 mg/kg/day
	General population - Oral; Long term systemic effects: 25 mg/kg/day

PNEC	- Fresh water; 0.10379 mg/l
	- marine water; 0.10379 mg/l
	- Fresh water, Intermittent release; 0.014 mg/l
	- Sediment (Freshwater); 13.7 mg/kg
	- Sediment (Marinewater); 13.7 mg/kg
	- Soil; 1 mg/kg
	- STP; 1.4 mg/l

tetrasodium N,N-bis(carboxylatomethyl)-L-glutamate (CAS: 51981-21-6)

DNEL	Workers - Inhalation; Long term systemic effects: 7.3 mg/m ³
	Workers - Dermal; Long term systemic effects: 15,000 mg/kg/day
	General population - Inhalation; Long term systemic effects: 1.8 mg/m ³
	General population - Dermal; Long term systemic effects: 7,500 mg/kg/day
	General population - Oral; Long term systemic effects: 1.5 mg/kg/day

Tetrasodium (1-hydroxyethylidene)bisphosphonic acid (CAS: 3794-83-0)

DNEL	Workers - Inhalation; Long term systemic effects: 16.9 mg/m ³
	Workers - Inhalation; Long term local effects: 10 mg/m ³
	Workers - Dermal; Long term systemic effects: 48 mg/kg/day
	Consumer - Inhalation; Long term systemic effects: 4.2 mg/m ³
	Consumer - Inhalation; Long term local effects: 10 mg/m ³
	Consumer - Dermal; Long term systemic effects: 24 mg/kg/day
	Consumer - Oral; Long term systemic effects: 2.4 mg/kg/day

PNEC	- Fresh water; 0.096 mg/l
	- marine water; 0.00963 mg/l
	- STP; 58 mg/l
	- Sediment (Freshwater); 193 mg/kg
	- Sediment (Marinewater); 19.3 mg/kg
	- Soil; 14 mg/kg

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Observe any occupational exposure limits for the product or ingredients.

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Personal protective equipment that provides appropriate eye and face protection should be worn. The following protection should be worn: Chemical splash goggles.

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Hand protection	Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, wear gloves that are proven to be impervious to the chemical and resist degradation. The selected gloves should have a breakthrough time of at least 4 hours. The breakthrough time for any glove material may be different for different glove manufacturers. When used with mixtures, the protection time of gloves cannot be accurately estimated. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Protective gloves should have a minimum thickness of 0.15 mm. Glove thickness is not necessarily a good measure of glove resistance as the permeation rate will depend on the exact glove composition. The choice of protective gloves depends upon the chemicals being handled, and the conditions of work and use. Repeated exposure to chemicals will degrade the ability of the glove to provide resistance to chemicals. Specific work environments and material handling practices may vary, therefore safety procedures should be developed for each intended application. Gloves made from the following material may provide suitable chemical protection: Nitrile rubber. Rubber (natural, latex). Neoprene.
Other skin and body protection	Provide eyewash station.
Hygiene measures	Wash hands thoroughly after handling. Wash contaminated clothing before reuse.
Respiratory protection	No specific requirements are anticipated under normal conditions of use. Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Respirator selection must be based on exposure levels, the hazards of the product and the safe working limits of the selected respirator. Ensure all respiratory protective equipment is suitable for its intended use and is 'UKCA'-marked. Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit. Half mask and quarter mask respirators with replaceable filter cartridges suitable for intended use should be used. Particulate filters should comply with European Standard EN143. Disposable filtering half mask respirators suitable for intended use should be used. Check that the respirator fits tightly and the filter is changed regularly. Wear a respirator fitted with the following cartridge: Combination filter, type A2/P2. Organic vapour + dust and mist filter.
Environmental exposure controls	Store in a demarcated bunded area to prevent release to drains and/or watercourses. Residues and empty containers should be taken care of as hazardous waste according to local and national provisions.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Clear liquid.
Colour	Yellow.
Odour	Lemon.
pH	pH (concentrated solution): >11.5
Melting point	Not determined.
Initial boiling point and range	Not determined.
Flash point	Not applicable.
Evaporation rate	Not determined.
Flammability (solid, gas)	Not applicable.

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Upper/lower flammability or explosive limits	Not applicable.
Other flammability	Not applicable.
Vapour pressure	Not determined.
Relative density	~ 1.03 @ 20°C
Solubility(ies)	Emulsifiable in water.
Partition coefficient	Not determined.
Auto-ignition temperature	Not applicable.
Decomposition Temperature	Not applicable.
Viscosity	Not determined.
Explosive properties	There are no chemical groups present in the product that are associated with explosive properties.
Oxidising properties	There are no chemical groups present in the product that are associated with oxidising properties.
Comments	Information declared as "Not available" or "Not applicable" is not considered to be relevant to the implementation of the proper control measures.

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 and when used as recommended.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Not determined.

10.4. Conditions to avoid

Conditions to avoid There are no known conditions that are likely to result in a hazardous situation.

10.5. Incompatible materials

Materials to avoid No specific material or group of materials is likely to react with the product to produce a hazardous situation.

10.6. Hazardous decomposition products

Hazardous decomposition products Thermal decomposition or combustion products may include the following substances: Ammonia or amines. Carbon monoxide (CO). Carbon dioxide (CO₂). Nitrous gases (NO_x).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

Notes (oral LD₅₀) Based on available data the classification criteria are not met.

ATE oral (mg/kg) 16,250.0

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Acute toxicity - dermal

Notes (dermal LD₅₀)

Based on available data the classification criteria are not met.

Acute toxicity - inhalation

Notes (inhalation LC₅₀)

Based on available data the classification criteria are not met.

Skin corrosion/irritation

Human skin model test

Cell Viability 85% and 77% 3 minutes Cell Viability 71% and 82% 1 hour Read-across data.
Not corrosive to skin. Causes skin irritation.

Extreme pH

≥ 11.5

Serious eye damage/irritation

Serious eye damage/irritation

Corrosivity to eyes is assumed. No specific test data are available. Causes serious eye damage.

Respiratory sensitisation

Respiratory sensitisation

Based on available data the classification criteria are not met.

Skin sensitisation

Skin sensitisation

May cause an allergic skin reaction. Sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro

Does not contain any substances known to be mutagenic.

Carcinogenicity

Carcinogenicity

Does not contain any substances known to be carcinogenic.

Reproductive toxicity

Reproductive toxicity - fertility

Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

STOT - single exposure

Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure

Based on available data the classification criteria are not met.

Aspiration hazard

Aspiration hazard

Not anticipated to present an aspiration hazard, based on chemical structure.

Inhalation

Coughing, chest tightness, feeling of chest pressure.

Ingestion

Gastrointestinal symptoms, including upset stomach.

Skin contact

Causes skin irritation. May cause an allergic skin reaction.

Eye contact

Causes serious eye damage.

Acute and chronic health hazards

A single exposure may cause the following adverse effects: Corneal damage. Irritating to skin. May cause sensitisation by skin contact. Prolonged or repeated exposure may cause the following adverse effects: Product has a defatting effect on skin.

Route of exposure

Dermal Skin and/or eye contact

Target organs

Eyes Skin

Medical symptoms

Allergies. Dry skin. Skin irritation.

Medical considerations

The following pre-existing or historic medical conditions of the worker may lead to an increased risk of adverse health effects following exposure to this product: Allergies.

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Toxicological information on ingredients.

(2-methoxymethylethoxy) propanol

Acute toxicity - oral

Acute toxicity oral (LD₅₀
mg/kg) 5,382.66

Species Rat

ATE oral (mg/kg) 5,382.66

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀
mg/kg) 5,001.0

Species Rabbit

ATE dermal (mg/kg) 5,001.0

Acute toxicity - inhalation

Acute toxicity inhalation
(LC₅₀ vapours mg/l) 3,080.0

Species Rat

ATE inhalation (vapours
mg/l) 3,080.0

SODIUM DODECYL BENZENE SULPHONATE

Acute toxicity - oral

Acute toxicity oral (LD₅₀
mg/kg) 650.0

Species Rat

ATE oral (mg/kg) 650.0

Tetrasodium ethylene diamine tetraacetate

Acute toxicity - oral

Acute toxicity oral (LD₅₀
mg/kg) 1,780.0

Species Rat

ATE oral (mg/kg) 1,780.0

Acute toxicity - inhalation

Notes (inhalation LC₅₀)

ATE inhalation (gases
ppm) 11,250.0

ATE inhalation (vapours
mg/l) 27.5

ATE inhalation
(dusts/mists mg/l) 3.75

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ALCOHOL C9-11 ETHOXYLATE

Acute toxicity - oral

ATE oral (mg/kg) 500.0

tetrasodium N,N-bis(carboxylatomethyl)-L-glutamate

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 2,001.0

Species Rat

ATE oral (mg/kg) 2,001.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 2,000.1

Species Rat

ATE dermal (mg/kg) 2,000.1

Tetrasodium (1-hydroxyethylidene)bisphosphonic acid

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 940.0

Species Rat

ATE oral (mg/kg) 940.0

Acute toxicity - dermal

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

Species Rabbit

ATE dermal (mg/kg) 5,000.0

SECTION 12: Ecological information

Ecotoxicity Harmful to aquatic life with long lasting effects.

12.1. Toxicity

Acute aquatic toxicity

Acute toxicity - fish Not determined.

Chronic aquatic toxicity

Chronic toxicity - fish early life stage Not determined.

Ecological information on ingredients.

(2-methoxymethylethoxy) propanol

Acute aquatic toxicity

Acute toxicity - fish LC50, 96 hours: > 1000 mg/l, Poecilia reticulata (Guppy)

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Acute toxicity - aquatic invertebrates	NOEC, >: > 0.5 mg/l, Daphnia magna EC ₅₀ , 48 hours: 1919 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC ₅₀ , 96 hours: > 969 mg/l, Selenastrum capricornutum

(R)-p-mentha-1,8-diene

<u>Acute aquatic toxicity</u>	
LE(C)₅₀	0.1 < L(E)C ₅₀ ≤ 1
M factor (Acute)	1
<u>Chronic aquatic toxicity</u>	
M factor (Chronic)	1

Tetrasodium ethylene diamine tetraacetate

<u>Acute aquatic toxicity</u>	
Acute toxicity - fish	LC ₅₀ , 96 hours: > 100 mg/l, Lepomis macrochirus (Bluegill)
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: >100 mg/l, Daphnia magna

ALCOHOL C9-11 ETHOXYLATE

<u>Acute aquatic toxicity</u>	
Acute toxicity - fish	LC ₅₀ , 96 hours: 57 mg/l, Oncorhynchus mykiss (Rainbow trout)
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 2.5 mg/l, Daphnia magna

tetrasodium N,N-bis(carboxylatomethyl)-L-glutamate

<u>Acute aquatic toxicity</u>	
Acute toxicity - fish	LC ₅₀ , 96 hours: > 100 mg/l, Oncorhynchus mykiss (Rainbow trout)
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: > 100 mg/l, Daphnia magna

Tetrasodium (1-hydroxyethylidene)bisphosphonic acid

<u>Acute aquatic toxicity</u>	
Acute toxicity - fish	LC ₅₀ , 96 hours: 278 mg/l, Oncorhynchus mykiss (Rainbow trout)
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 754 mg/l, Daphnia magna
<u>Chronic aquatic toxicity</u>	
Chronic toxicity - aquatic invertebrates	NOEC, 28 days: 9.63 mg/l, Daphnia magna

BETA PINENES

<u>Acute aquatic toxicity</u>	
LE(C)₅₀	0.1 < L(E)C ₅₀ ≤ 1

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(S)-p-mentha-1,8-diene

Acute aquatic toxicity

LE(C)₅₀ 0.1 < L(E)C₅₀ ≤ 1

M factor (Acute) 1

Chronic aquatic toxicity

NOEC 0.01 < NOEC ≤ 0.1

Degradability Non-rapidly degradable

M factor (Chronic) 1

12.2. Persistence and degradability

Persistence and degradability The product is expected to be biodegradable.

12.3. Bioaccumulative potential

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

Partition coefficient Not determined.

12.4. Mobility in soil

Mobility The product is partly soluble in water and may spread in the aquatic environment.

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.

12.6. Other adverse effects

Other adverse effects Not determined.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal methods Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements.

SECTION 14: Transport information

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

Special Provisions note

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.

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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

National regulations Control of Substances Hazardous to Health Regulations 2002 (as amended).
The Detergents Regulations 2010 (SI 2010 No. 740) (as amended). The Detergents
(Amendment) (EU Exit) Regulations 2019 (SI 2019 No. 612) (as amended). The Detergents
(Safeguarding) (Amendment) (EU Exit) Regulations 2019 (SI 2019 No. 671) (as amended).
The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 (SI 2020 No. 1577) (as
amended).

Guidance Workplace Exposure Limits EH40.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

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.
CAS: Chemical Abstracts Service.
DNEL: Derived No Effect Level.
EC₅₀: 50% of maximal Effective Concentration.
IATA: International Air Transport Association.
IMDG: International Maritime Dangerous Goods.
LC50: Lethal Concentration to 50 % of a test population.
LD50: Lethal Dose to 50% of a test population (Median Lethal Dose).
NOEC: No Observed Effect Concentration.
PNEC: Predicted No Effect Concentration.
REACH: The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577.
PBT: Persistent, Bioaccumulative and Toxic substance.
UN: United Nations.
vPvB: Very Persistent and Very Bioaccumulative.

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Classification abbreviations and acronyms	<p>Acute Tox. = Acute toxicity Aquatic Acute = Hazardous to the aquatic environment (acute) Aquatic Chronic = Hazardous to the aquatic environment (chronic) Asp. Tox. = Aspiration hazard Eye Dam. = Serious eye damage Eye Irrit. = Eye irritation Flam. Liq. = Flammable liquid Met. Corr. = Corrosive to metals Skin Irrit. = Skin irritation Skin Sens. = Skin sensitisation STOT RE = Specific target organ toxicity-repeated exposure STOT SE = Specific target organ toxicity-single exposure</p>
Classification procedures according to SI 2019 No. 720	<p>Skin Sens. 1 - H317, Eye Dam. 1 - H318, Aquatic Chronic 3 - H412: Calculation method., Expert judgement. Skin Irrit. 2 - H315: Bridging principle (Substantially similar mixtures)., On basis of test data., Expert judgement.</p>
Revision comments	<p>NOTE: Lines within the margin indicate significant changes from the previous revision.</p>
Revision date	09/08/2022
Revision	6.1
Supersedes date	03/02/2021
SDS number	17143
Hazard statements in full	<p>H226 Flammable liquid and vapour. H290 May be corrosive to metals. H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H332 Harmful if inhaled. H335 May cause respiratory irritation. H373 May cause damage to organs (Respiratory system, lungs) through prolonged or repeated exposure. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.</p>

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.