

	Degreaser Ecocert Code: BEC2005007B032	
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SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1	<u>PRODUCT IDENTIFIER:</u>	Degreaser Ecocert Code: BEC2005007B032
1.2	<u>RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST:</u> <u>Intended uses (main technical functions):</u> Grease remover. <u>Uses advised against:</u> This product is not recommended for any use or sector of use (industrial, professional or consumer) other than those previously listed as 'Intended or identified uses'. <u>Restrictions on manufacture, placing on market and use, according to Annex XVII of Regulation (EC) No. 1907/2006:</u> Not restricted.	[] Industrial [X] Professional [X] Consumers
1.3	<u>DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET:</u> MIDAS CLEAN, S.L. Parc científic de Barcelona, edifici clúster ems 1BC13, Baldiri Reixac, 10-12 - 08028 Barcelona <u>DETAILS OF AUSTRALIAN IMPORTER AND DISTRIBUTOR:</u> Urban Ethos Pty Ltd Unit 1, 33 Levanswell Road, Moorabbin 3189, Victoria, Australia <u>E-mail address of the person responsible for the Safety Data Sheet:</u> e-mail: michael@urbanethos.com.au	
1.4	<u>EMERGENCY TELEPHONE NUMBER:</u>	Poisons Information Centre Phone Australia – 13 11 26 Phone New Zealand – 0800 764 766

SECTION 2 : HAZARDS IDENTIFICATION

2.1	<u>CLASSIFICATION OF THE SUBSTANCE OR MIXTURE:</u> Classification of mixtures is carried out in accordance with the following principles: a) when data (tests) for the classification of mixtures are available, generally is carried out based on these data, b) in the absence of data (tests) for mixtures are generally used interpolation or extrapolation methods of assessing the risk, using the available data for mixtures similarly classified, and c) in the absence of tests and information which would allow to apply interpolation or extrapolation techniques, methods are used to classify risk assessment based on the data of the individual components in the mixture. <u>Classification in accordance with Regulation (EU) No. 1272/2008~2018/1480 (CLP):</u> DANGER: Skin Corr. 1A:H314 Eye Dam. 1:H318					
	<u>Danger class</u>	<u>Classification of the mixture</u>	<u>Cat.</u>	<u>Routes of exposure</u>	<u>Target organs</u>	<u>Effects</u>
	<u>Physicochemical:</u> Not classified	Skin Corr. 1A:H314 Eye Dam. 1:H318	c) c)	Cat. 1A Cat. 1	Skin Eyes	Burns Serious lesions
	<u>Human health:</u> 					
	<u>Environment:</u> Not classified					
Full text of hazard statements mentioned is indicated in section 16.						
Note: When in section 3 a range of percentages is used, the health and environmental hazards describe the effects of the highest concentration of each component, but below the maximum value.						

2.2	<u>LABEL ELEMENTS:</u>	This product is labelled with the signal word DANGER in accordance with Regulation (EU) No. 1272/2008~2018/1480 (CLP)
		
	<u>Hazard statements:</u> H314	Causes severe skin burns and eye damage.
	<u>Precautionary statements:</u> P101 P102-P405 P103 P280F P363 P301+P330+P331-P310 P303+P361+P353-P352-P312 P305+P351+P338-P310 P501b	If medical advice is needed, have product container or label at hand. Keep out of reach of children. Store locked up. Read label before use. Wear protective gloves, clothing and eye protection. In case of inadequate ventilation wear respiratory protection. Wash contaminated clothing before reuse. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash with plenty of soap and water. Call a POISON CENTER or doctor if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor. Dispose of contents/container to hazardous or special waste collection point.
	<u>Supplementary statements:</u> EUH208 EUD011	Contains (R)-p-mentha-1,8-diene, citral. May produce an allergic reaction. Contains anionic surfactants < 5 %, perfumes < 5 %, LIMONENE, CITRAL. Do not swallow.
	<u>Substances that contribute to classification:</u> Sodium hydroxide	


	Degreaser Ecocert Code: BEC2005007B032	
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- 2.3 **OTHER HAZARDS:**
 Hazards which do not result in classification but which may contribute to the overall hazards of the mixture:
[Other physicochemical hazards:](#) No other relevant adverse effects are known.
[Other adverse human health effects:](#) No other relevant adverse effects are known.
[Other negative environmental effects:](#) Does not contain substances that fulfil the PBT/vPvB criteria.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

- 3.1 **SUBSTANCES:**
 Not applicable (mixture).

- 3.2 **MIXTURES:**
 This product is a mixture.
Chemical description:
 Mixture of chemical substances.
HAZARDOUS INGREDIENTS:
 Substances taking part in a percentage higher than the exemption limit:

30 < 40 % 	Sodium hydroxide CAS: 1310-73-2, EC: 215-185-5 REACH: 01-2119457892-27 CLP: Danger: Met. Corr. 1:H290 Skin Corr. 1A:H314 Eye Dam. 1:H318	IndexNo. 011-002-00-6 < REACH
20 < 25 % 	Citric acid CAS: 77-92-9, EC: 201-069-1 REACH: 01-2119457026-42 CLP: Warning: Eye Irrit. 2:H319	Autoclassified < REACH
1 < 2,5 % 	Sodium mono-C12-C14-alkylsulphate CAS: 85586-07-8, EC: 287-809-4 REACH: 01-2119489463-28 CLP: Danger: Acute Tox. (oral) 4:H302 Skin Irrit. 2:H315 Eye Dam. 1:H318 Aquatic Chronic 3:H412	< REACH
< 0,15 %   	(R)-p-mentha-1,8-diene CAS: 5989-27-5, EC: 227-813-5 REACH: 01-2119529223-47 CLP: Danger: Flam. Liq. 3:H226 Skin Irrit. 2:H315 Skin Sens. 1:H317 Asp. Tox. 1:H304 Aquatic Acute 1:H400 (M=1) Aquatic Chronic 1:H410 (M=1)	IndexNo. 601-029-00-7 < REACH
< 0,15 % 	Citral CAS: 5392-40-5, EC: 226-394-6 REACH: 01-2119457026-42 CLP: Warning: Skin Irrit. 2:H315 Eye Irrit. 2:H319 Skin Sens. 1B:H317	IndexNo. 605-019-00-3 < CLP00


Impurities:
 Does not contain other components or impurities which will influence the classification of the product.

Stabilizers:
 None




Reference to other sections:
 For more information on hazardous ingredients, see sections 8, 11, 12 and 16.

SUBSTANCES OF VERY HIGH CONCERN (SVHC):
 List updated by ECHA on 16/01/2020.
Substances SVHC subject to authorisation, included in Annex XIV of Regulation (EC) no. 1907/2006:
 None
Substances SVHC candidate to be included in Annex XIV of Regulation (EC) no. 1907/2006:
 None

PERSISTENT, BIOACCUMULABLE AND TOXIC PBT, OR VERY PERSISTENT AND VERY BIOACCUMULABLE VPVB SUBSTANCES:
 Does not contain substances that fulfil the PBT/vPvB criteria.

	Degreaser Ecocert Code: BEC2005007B032	
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SECTION 4 : FIRST AID MEASURES


4.1	<u>DESCRIPTION OF FIRST-AID MEASURES:</u>  In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Never give anything by mouth to an unconscious person. Lifeguards should pay attention to self-protection and use the recommended protective equipment if there is a possibility of exposure. Wear protective gloves when administering first aid.		
	Route of exposure	Symptoms and effects, acute and delayed	Description of first-aid measures
	<u>Inhalation:</u>	Inhalation produces burning sensation, coughing, breathlessness and sore throat.	Should there be any symptoms, transfer the person affected to the open air.
	<u>Skin:</u> 	Skin contact causes redness, burns and pain.	Remove immediately contaminated clothing. Wash thoroughly the affected area with plenty of cold or lukewarm water and neutral soap, or use a suitable skin cleanser.
	<u>Eyes:</u> 	Contact with the eyes produces redness, pain, serious burns and loss of vision.	Remove contact lenses. Rinse eyes copiously by irrigation with plenty of clean, fresh water for at least 15 minutes, holding the eyelids apart, until the irritation is reduced. Call a physician immediately.
	<u>Ingestion:</u>	If swallowed, causes severe burns on the lips, mouth, throat and oesophagus, with gastric disorders and abdominal pain.	If swallowed, seek immediate medical attention. Drink large quantities of water. Do not induce vomiting. Keep the patient at rest.
4.2	<u>MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:</u> The main symptoms and effects are indicated in sections 4.1 and 11.1		
4.3	<u>INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:</u> <u>Notes to physician:</u> Damage caused by detergents and tensioactives to intestinal mucus is irreversible. Do not induce vomiting. Pump out stomach prior to the addition of dimeticone (antifrothing agent). <u>Antidotes and contraindications:</u> Specific antidote not known.		

SECTION 5 : FIRE-FIGHTING MEASURES

5.1	<u>EXTINGUISHING MEDIA:</u> In case of fire in the surroundings, all extinguishing agents are allowed.
5.2	<u>SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:</u> Decomposes when heated intensely. As consequence of combustion or thermal decomposition, hazardous products may be produced: carbon monoxide, carbon dioxide, nitrogen oxides, sulfur oxides, ammonia. Irritant. Exposure to combustion or decomposition products may be a hazard to health.
5.3	<u>ADVICE FOR FIREFIGHTERS:</u> <u>Special protective equipment:</u> Depending on magnitude of fire, heat-proof protective clothing may be required, appropriate independent breathing apparatus, gloves, protective glasses or face masks and boots. If the fire-proof protective equipment is not available or is not being used, combat fire from a sheltered position or from a safe distance. The standard EN469 provides a basic level of protection for chemical incidents. <u>Other recommendations:</u> Cool with water the tanks, cisterns or containers close to sources of heat or fire. Bear in mind the direction of the wind. Do not allow fire-fighting residue to enter drains, sewers or water courses.


SECTION 6 : ACCIDENTAL RELEASE MEASURES

6.1	<u>PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:</u> Avoid direct contact with this product.
6.2	<u>ENVIRONMENTAL PRECAUTIONS:</u> Avoid contamination of drains, surface or subterranean water and soil. In the case of large scale spills or when the product contaminates lakes, rivers or sewages, inform the appropriate authorities in accordance with local regulations.
6.3	<u>METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP:</u> Sweep spilt product. Keep the remains in a closed container.
6.4	<u>REFERENCE TO OTHER SECTIONS:</u> For contact information in case of emergency, see section 1. For information on safe handling, see section 7. For exposure controls and personal protection measures, see section 8. For waste disposal, follow the recommendations in section 13.

	Degreaser Ecocert Code: BEC2005007B032	
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SECTION 7 : HANDLING AND STORAGE

7.1	<p>PRECAUTIONS FOR SAFE HANDLING: Comply with the existing legislation on health and safety at work.</p> <p>General recommendations: Handle with care, avoiding any discharge. Avoid any type of leakage or escape. Keep the container tightly closed.</p> <p>Recommendations for the prevention of fire and explosion risks: The product is not liable to ignite, deflagrate or explode, and does not sustain the combustion reaction by oxygen from air in the environment in which it is, so it is not included in the scope of Directive 2014/34/EU concerning equipment and protective systems intended for use in potentially explosive atmospheres. Also they are not applicable the provisions of the ITC MIE BT-29 on the detailed requirements for electrical installations in locals with risk of fire or explosion.</p> <p>Recommendations for the prevention of toxicological risks: Do not eat, drink or smoke while handling. After handling, wash hands with soap and water. For exposure controls and personal protection measures, see section 8.</p> <p>Recommendations for the prevention of environmental contamination: It is not considered a danger to the environment. In the case of accidental spillage, follow the instructions indicated in section 6.</p>
7.2	<p>CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES: Keep locked up. Forbid the entry to unauthorized persons. Keep out of reach of children. Keep away from source of heat. If possible, avoid direct contact with sunlight. Avoid extreme humidity conditions. In order to avoid leakages, the containers, after use, should be closed carefully and placed in a vertical position. Due to its corrosive properties, extreme precaution in the selection of materials for pumps, packages and lines should be taken. The floor must be waterproof and corrosion resistant. The electrical equipment must be made of non-corrodible materials. For more information, see section 10.</p> <p>Class of storage : According to current legislation. Maximum storage period : 6. months Temperature interval : min: 5. °C, max: 40. °C (recommended).</p> <p>Incompatible materials: Keep away from reducing agents, oxidizing agents, acids, alkalis, metals.</p> <p>Type of packaging: According to current legislation.</p> <p>Limit quantity (Seveso III): Directive 2012/18/EU: Not applicable (product for non industrial use).</p>
7.3	<p>SPECIFIC END USES: For the use of this product particular recommendations apart from that already indicated are not available.</p>

	Degreaser Ecocert Code: BEC2005007B032	
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SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1

CONTROL PARAMETERS:

If a product contains ingredients with exposure limits, may be necessary a personnel monitoring, work place or biological, to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to EN689, EN14042 and EN482 standard concerning methods for assessing the exposure by inhalation to chemical agents, and exposure to chemical and biological agents. Reference should be also made to national guidance documents for methods for the determination of dangerous substances.

OCCUPATIONAL EXPOSURE LIMIT VALUES (TLV)

AGCIH 2018	Year	TLV-TWA		TLV-STEL		Remarks
		ppm	mg/m ³	ppm	mg/m ³	
Sodium hydroxide	1977	-	-	-	2.0C	Recommended IFV A4 Vd,Sc
(R)-p-mentha-1,8-diene		290.	-	-	-	
Citral	2009	5.0	-	-	-	

TLV - Threshold Limit Value, TWA - Time Weighted Average, STEL - Short Term Exposure Limit.

C - Ceiling value: The concentration that should not be exceeded during any part of the working exposure.

Skin - Danger of cutaneous absorption.

Sc - May cause sensitization by skin contact.

A4 - Non classified as carcinogenic in humans.

IFV - Inhalable fraction and vapour.

Inhalable fraction and vapour (IFV): IFV notation indicates those chemical agents that may occur in the workplace, both as particulate matter and as vapour, so that the two phases can coexist, both contributing to exposure. This situation can occur mainly in the following cases: a) When the agent in question has an 'intermediate' value of the vapour pressure (in these cases it is taking into account the relationship between its concentration in air saturated vapour and the value of TWA, and the note is assigned, generally, when the ratio between the two quantities is between 0.1 and 10), b) Because of the form of use of the chemical agent (e.g. spraying), c) In the processes involving large temperature changes that may affect the physical state of the chemical agent, and d) In the processes in which a significant fraction of vapour can be dissolved or adsorbed onto particles of other substances, like what happens with water soluble agents in high humidity environments. For more information, see C. Perez and S.C. Soderholm. Some chemicals requiring special consideration when deciding whether to sample the particle, vapor or both phases of an atmosphere. Appl. Occup. Environ. Hyg. 6 (10), 859-864. 1991).

BIOLOGICAL LIMIT VALUES:

Not available

DERIVED NO-EFFECT LEVEL (DNEL):

Derived no-effect level (DNEL) is a level of exposure that is considered safe, derived from toxicity data according to specific guidances included in REACH. DNEL values may differ from a occupational exposure limit (OEL) for the same chemical. OEL values may come recommended by a particular company, a government regulatory agency or an organization of experts. Although considered protective of health, the OEL values are derived by a process different of REACH.

Derived no-effect level, workers: - Systemic effects, acute and chronic: Sodium hydroxide Citric acid Sodium mono-C12-C14-alkylsulphate (R)-p-mentha-1,8-diene	DNEL Inhalation mg/m ³		DNEL Cutaneous mg/kg bw/d		DNEL Oral mg/kg bw/d	
	s/r (a)	s/r (c)	s/r (a)	s/r (c)	- (a)	- (c)
	- (a)	- (c)	- (a)	- (c)	- (a)	- (c)
	- (a)	285. (c)	- (a)	4060. (c)	- (a)	- (c)
	s/r (a)	66.7 (c)	s/r (a)	9.50 (c)	- (a)	- (c)
Derived no-effect level, workers: - Local effects, acute and chronic: Sodium hydroxide Citric acid Sodium mono-C12-C14-alkylsulphate (R)-p-mentha-1,8-diene	DNEL Inhalation mg/m ³		DNEL Cutaneous mg/cm ²		DNEL Eyes mg/cm ²	
	1.00 (a)	1.00 (c)	a/r (a)	a/r (c)	a/r (a)	- (c)
	- (a)	- (c)	- (a)	- (c)	- (a)	- (c)
	- (a)	- (c)	- (a)	- (c)	- (a)	- (c)
	s/r (a)	s/r (c)	m/r (a)	m/r (c)	s/r (a)	- (c)
Derived no-effect level, general population: - Systemic effects, acute and chronic: Sodium hydroxide Citric acid Sodium mono-C12-C14-alkylsulphate (R)-p-mentha-1,8-diene	DNEL Inhalation mg/m ³		DNEL Cutaneous mg/kg bw/d		DNEL Oral mg/kg bw/d	
	s/r (a)	s/r (c)	s/r (a)	s/r (c)	a/r (a)	s/r (c)
	- (a)	- (c)	- (a)	- (c)	- (a)	- (c)
	- (a)	85.0 (c)	- (a)	2440. (c)	- (a)	24.0 (c)
	s/r (a)	16.6 (c)	s/r (a)	4.80 (c)	s/r (a)	4.80 (c)
Derived no-effect level, general population: - Local effects, acute and chronic: Sodium hydroxide Citric acid Sodium mono-C12-C14-alkylsulphate (R)-p-mentha-1,8-diene	DNEL Inhalation mg/m ³		DNEL Cutaneous mg/cm ²		DNEL Eyes mg/cm ²	
	1.00 (a)	1.00 (c)	a/r (a)	a/r (c)	a/r (a)	- (c)
	- (a)	- (c)	- (a)	- (c)	- (a)	- (c)
	- (a)	- (c)	- (a)	- (c)	- (a)	- (c)
	s/r (a)	s/r (c)	s/r (a)	s/r (c)	s/r (a)	- (c)













(a) - Acute, short-term exposure, (c) - Chronic, long-term or repeated exposure.

(-) - DNEL not available (without data of registration REACH).

s/r - DNEL not derived (not identified hazard).

m/r - DNEL not derived (medium hazard).

a/r - DNEL not derived (high hazard).

 Degreaser Ecocert Code: BEC2005007B032				
PREDICTED NO-EFFECT CONCENTRATION (PNEC):				
Predicted no-effect concentration, aquatic organisms: - Fresh water, marine water and intermittent release:		PNEC Fresh water mg/l	PNEC Marine mg/l	PNEC Intermittent mg/l
Sodium hydroxide		-	-	-
Citric acid		0.440	0.0440	-
Sodium mono-C12-C14-alkylsulphate		0.102	0.0100	0.0360
(R)-p-mentha-1,8-diene		0.0140	0.00140	-
- Wastewater treatment plants (STP) and sediments in fresh- and marine water:		PNEC STP mg/l	PNEC Sediments mg/kg dw/d	PNEC Sediments mg/kg dw/d
Sodium hydroxide		-	-	-
Citric acid		1000.	34.6	3.46
Sodium mono-C12-C14-alkylsulphate		1084.	3.58	0.358
(R)-p-mentha-1,8-diene		1.80	3.85	0.385
Predicted no-effect concentration, terrestrial organisms: - Air, soil and effects for predators and humans:		PNEC Air mg/m ³	PNEC Soil mg/kg dw/d	PNEC Oral mg/kg dw/d
Sodium hydroxide		s/r	-	n/b
Citric acid		-	33.1	-
Sodium mono-C12-C14-alkylsulphate		-	0.654	-
(R)-p-mentha-1,8-diene		s/r	0.763	133.
(-) - PNEC not available (without data of registration REACH). s/r - PNEC not derived (not identified hazard). n/b - PNEC not derived (not bioaccumulative potential).				
8.2	EXPOSURE CONTROLS: ENGINEERING MEASURES:   Provide adequate cleaning. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction.			
Protection of respiratory system: Avoid the inhalation of product. Protection of eyes and face: Install water taps or sources with clean water close to the working area. Protection of hands and skin: Install water taps or sources with clean water close to the working area. Barrier creams may help to protect the exposed areas of the skin. Barrier creams should not be applied once exposure has occurred.				
OCCUPATIONAL EXPOSURE CONTROLS: Regulation (EU) No. 2016/425: As a general measure on prevention and safety in the workplace, we recommend the use of a basic personal protection equipment (PPE), with the corresponding marking. For more information on personal protective equipment (storage, use, cleaning, maintenance, type and characteristics of the PPE, protection class, marking, category, CEN norm, etc.), you should consult the informative brochures provided by the manufacturers of PPE.				
Mask:  		Suitable respiratory protection at low concentrations or short-term incidence: P2-type filter mask (white), with medium retention ability, for irritant or harmful solid particles or aerosols (EN143), Inward leakage: 8%, Assigned protection factor: up to 10 times TLV. In order to obtain a suitable protection level, the filter class must be selected depending on the type and concentration of the contaminating agents present, in accordance with the specifications supplied by the filter producers. Particle filters must be disposed when you notice an increase in breathing resistance.		
Safety goggles:  		Safety goggles for chemicals, with suitable lateral protection (EN166). Clean daily and disinfect at regular intervals in accordance with the instructions of the manufacturer.		
Face shield:		No.		
Gloves:  		Neoprene rubber gloves (EN374). There are several factors (for example, temperature), they do in practice the period of use of a protective gloves resistant against chemicals is clearly lower than the established standard EN374. Due to the wide variety of circumstances and possibilities, the instructions/specifications provided by the glove supplier should be taken into account. Use the proper technique of removing gloves (without touching glove's outer surface) to avoid contact of the product with the skin. The gloves should be immediately replaced when any sign of degradation is noted.		
Boots:		No.		
Apron:		No.		
Clothing:  		Clothing resistant to corrosive products will have to be worn.		
Thermal hazards: Not applicable (the product is handled at room temperature).				
ENVIRONMENTAL EXPOSURE CONTROLS: Avoid any spillage in the environment.				

	Degreaser Ecocert Code: BEC2005007B032	
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Spills on the soil: Prevent contamination of soil.

Spills in water: Do not allow to escape into drains, sewers or water courses.

- Water Management Act: This product does not contain any substance included in the list of priority substances in the field of water policy under Directive 2000/60/EC~2013/39/EU.

Emissions to the atmosphere: Not applicable.

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES:

Appearance

- Physical state : Tablets solid.
 - Colour : Orange.
 - Odour : Characteristic.

pH-value

- pH : Not applicable (solid).

Change of state

- Initial boiling point : Not applicable

Density

- Vapour density : Not applicable (solid).

- Relative density : 1.818* at 20/4°C

Relative water

Stability

- Decomposition temperature : 175* °C

Viscosity:

- Viscosity (flow time) : Not applicable (solid).

Volatility:

- Evaporation rate : Not applicable

- Vapour pressure : Not applicable

Solubility(ies)

- Partition coefficient: n-octanol/water : Not applicable (mixture).

Flammability:

Not applicable.

- Flash point : Inflammable °C

- Upper/lower flammability or explosive limits : Not available

- Autoignition temperature : Not applicable (do not sustain combustion).

Explosive properties:

Not available.

Oxidizing properties:

Not classified as oxidizing product.

*Estimated values based on the substances composing the mixture.

9.2 OTHER INFORMATION:

- Solids : 100. % Weight
 - Terpenic hydrocarbons : 0.2 % Weight

The values indicated do not always coincide with product specifications. The data for the product specifications can be found in the corresponding technical data sheet. For additional information concerning physical and chemical properties related to safety and environment, see sections 7 and 12.

SECTION 10 : STABILITY AND REACTIVITY

10.1 REACTIVITY:

Corrosivity to metals: Not available.

Pyrophorical properties: It is not pyrophoric.

10.2 CHEMICAL STABILITY:

Stable under recommended storage and handling conditions.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS:

Possible dangerous reaction with reducing agents, oxidizing agents, acids, alkalis, metals.

10.4 CONDITIONS TO AVOID:

Heat: Keep away from sources of heat.

Light: If possible, avoid direct contact with sunlight.

Air: The product is not affected by exposure to air, but should not be left the containers open.

Humidity: Avoid extreme humidity conditions.

Pressure: Not relevant.

Shock: The product is not sensitive to shocks, but as a recommendation of a general nature should be avoided bumps and rough handling to avoid dents and breakage of packaging, especially when the product is handled in large quantities, and during loading and download operations.

10.5 INCOMPATIBLE MATERIALS:

Keep away from reducing agents, oxidizing agents, acids, alkalis, metals.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS:

As consequence of thermal decomposition, hazardous products may be produced: nitrogen oxides, ammonia, sulfur oxides.

	Degreaser Ecocert Code: BEC2005007B032	
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SECTION 11 : TOXICOLOGICAL INFORMATION

No experimental toxicological data on the preparation is available. The toxicological classification for these mixture has been carried out by using the conventional calculation method of the Regulation (EU) No. 1272/2008~2018/1480 (CLP).

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS:ACUTE TOXICITY:Dose and lethal concentrations

for individual ingredients :

	<u>LD50 (OECD 401)</u> mg/kg bw oral	<u>LD50 (OECD 402)</u> mg/kg bw cutaneous	<u>LC50 (OECD 403)</u> mg/m ³ -4h inhalation
Sodium hydroxide	340. Rat	1350. Rabbit	
Citric acid	5400. Rat	5500. Rat	
Sodium mono-C12-C14-alkylsulphate	1800. Rat	> 2000. Rabbit	
(R)-p-mentha-1,8-diene	5600. Rat	> 2000. Rabbit	
Citral	6800. Rat	> 2000. Rabbit	

Estimates of acute toxicity (ATE)

for individual ingredients :

	<u>ATE</u> mg/kg bw oral	<u>ATE</u> mg/kg bw cutaneous	<u>ATE</u> mg/m ³ -4h inhalation
Sodium hydroxide	-	-	-
Citric acid	-	-	-
Sodium mono-C12-C14-alkylsulphate	1800.	-	-

(*) - Point estimates of acute toxicity corresponding to the classification category (see GHS/CLP Table 3.1.2). These values are designed to be used in the calculation of the ATE for classification of a mixture based on its components and do not represent test results.

(-) - The components that are assumed to have no acute toxicity at the upper threshold of category 4 for the corresponding exposure route are ignored.

No observed adverse effect level

Not available

Lowest observed adverse effect level





Not available

INFORMATION ON LIKELY ROUTES OF EXPOSURE: Acute toxicity:

Routes of exposure	Acute toxicity	Cat.	Main effects, acute and/or delayed	Criteria
<u>Inhalation:</u> Not classified	ATE > 5000 mg/m ³	-	Not classified as a product with acute toxicity if inhaled (based on available data, the classification criteria are not met).	GHS/CLP 3.1.3.6.
<u>Skin:</u> Not classified	ATE > 2000 mg/kg bw	-	Not classified as a product with acute toxicity in contact with skin (based on available data, the classification criteria are not met).	GHS/CLP 3.1.3.6.
<u>Eyes:</u> Not classified	Not available	-	Not classified as a product with acute toxicity by eye contact (lack of data).	GHS/CLP 1.2.5.
<u>Ingestion:</u> Not classified	ATE > 2000 mg/kg bw	-	Not classified as a product with acute toxicity if swallowed (based on available data, the classification criteria are not met).	GHS/CLP 3.1.3.6.

GHS/CLP 3.1.3.6: Classification of mixtures based on ingredients of the mixture (additivity formula).



CORROSION / IRRITATION / SENSITISATION :

Danger class	Target organs	Cat.	Main effects, acute and/or delayed	Criteria
<u>Respiratory corrosion/irritation:</u> Not classified	-	-	Not classified as a product corrosive or irritant by inhalation (based on available data, the classification criteria are not met).	GHS/CLP 1.2.6. 3.8.3.4.
<u>Skin corrosion/irritation:</u> 	Skin 	Cat. 1A	CORROSIVE: Causes severe skin burns.	GHS/CLP 3.2.3.3.
<u>Serious eye damage/irritation:</u> 	Eyes 	Cat. 1	DAMAGE: Causes serious eye damage.	GHS/CLP 3.3.3.3.
<u>Respiratory sensitisation:</u> Not classified	-	-	Not classified as a product sensitising by inhalation (based on available data, the classification criteria are not met).	GHS/CLP 3.4.3.3.
<u>Skin sensitisation:</u> Not classified	-	-	Not classified as a product sensitising by skin contact (based on available data, the classification criteria are not met).	GHS/CLP 3.4.3.3.

GHS/CLP 3.2.3.3: Classification of the mixture when data are available for all components or only for some components.

GHS/CLP 3.3.3.3: Classification of the mixture when data are available for all components or only for some components.

GHS/CLP 3.4.3.3: Classification of the mixture when data are available for all components or only for some components.

	Degreaser Ecocert Code: BEC2005007B032	
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ASPIRATION HAZARD:

Danger class	Target organs	Cat.	Main effects, acute and/or delayed	Criteria
<u>Aspiration hazard:</u> Not classified	-	-	Not applicable (solid).	GHS/CLP 3.10.3.3.

GHS/CLP 3.10.3.3: Classification of the mixture when data are available for all components or only for some components.

SPECIFIC TARGET ORGANS TOXICITY (STOT): Single exposure (SE) and/or Repeated exposure (RE):

Not classified as a dangerous product for target organs (based on available data, the classification criteria are not met).

CMR EFFECTS:

Carcinogenic effects: It is not considered as a carcinogenic product.

Genotoxicity: It is not considered as a mutagenic product.

Toxicity for reproduction: Does not harm fertility. Does not harm the unborn child.

Effects via lactation: Not classified as a hazardous product for children breast-fed.

DELAYED AND IMMEDIATE EFFECTS AS WELL AS CHRONIC EFFECTS FROM SHORT AND LONG-TERM EXPOSURE:

Routes of exposure: Not available.

Short-term exposure: Causes burns to the skin or eyes by direct contact or to the digestive tract if swallowed. The mist of fine particles are skin and respiratory tract irritants.

Long-term or repeated exposure: Not available.

INTERACTIVE EFFECTS:

Not available.

INFORMATION ABOUT TOXICOCINETICS, METABOLISM AND DISTRIBUTION:

Dermal absorption: Not available.

Basic toxicokinetics: Not available.

ADDITIONAL INFORMATION:

Causes burns to the skin or eyes by direct contact or to the digestive tract if swallowed. The mist of fine particles are skin and respiratory tract irritants.

SECTION 12 : ECOLOGICAL INFORMATION

No experimental ecotoxicological data on the preparation as such is available. The ecotoxicological classification for these mixture has been carried out by using the conventional calculation method of the Regulation (EU) No. 1272/2008~2018/1480 (CLP).

12.1 TOXICITY:Acute toxicity in aquatic environment

for individual ingredients :

Sodium hydroxide

Citric acid

Sodium mono-C12-C14-alkylsulphate

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

Citral

LC50 (OECD 203)

mg/l-96hours

> 45. Fishes

440. Fishes

> 3.6 Fishes

0.72 Fishes

> 6.8 Fishes

EC50 (OECD 202)

mg/l-48hours

> 40. Daphnia

120. Daphnia

> 4.7 Daphnia

0.36 Daphnia

> 6.8 Daphnia

EC50 (OECD 201)

mg/l-72hours

640. Algae

> 20. Algae

0.32 Algae

> 100. Algae

No observed effect concentration

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

NOEC (OECD 210)

mg/l-28days

NOEC (OECD 211)

mg/l-21days

0.080 Daphnia

NOEC (OECD 201)

mg/l-72hours

0.17 Algae

Lowest observed effect concentration


Not available

ASSESSMENT OF AQUATIC TOXICITY:

Aquatic toxicity	Cat.	Main hazards to the aquatic environment	Criteria
<u>Acute aquatic toxicity:</u> Not classified	-	Not classified as a hazardous product with acute toxicity to aquatic life (based on available data, the classification criteria are not met).	GHS/CLP 4.1.3.5.3.
<u>Chronic aquatic toxicity:</u> Not classified	-	Not classified as a dangerous product with chronic toxicity to aquatic life with long lasting effects (based on available data, the classification criteria are not met).	GHS/CLP 4.1.3.5.4.

CLP 4.1.3.5.3: Classification of a mixture for acute hazards, based on summation of classified components.

CLP 4.1.3.5.4: Classification of a mixture for chronic (long term) hazards, based on summation of classified components.

	Degreaser Ecocert Code: BEC2005007B032	
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12.2	PERSISTENCE AND DEGRADABILITY: <u>Biodegradability:</u> The surfactants contained in this preparation comply with the biodegradability criteria as laid down in Regulation 648/2004/EC on detergents: Ultimate aerobic biodegradation > 60% within 28 days. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them at their direct request or at the request of a detergent manufacturer.			
	<u>Aerobic biodegradation for individual ingredients :</u> Sodium hydroxide Citric acid Sodium mono-C12-C14-alkylsulphate (R)-p-mentha-1,8-diene Citral	<u>DQO</u> mgO ₂ /g	<u>%DBO/DQO</u> 5 days 14 days 28 days	<u>Biodegradability</u> Not available Easy Easy Not easy Easy
		728. 3288.	~ 72. ~ 85. ~ 97. ~ 59. ~ 71. 90.	

Note: Biodegradability data correspond to an average of data from various bibliographic sources.

12.3	BIOACCUMULATIVE POTENTIAL: Not available.			
	<u>Bioaccumulation for individual ingredients :</u> Citric acid Sodium mono-C12-C14-alkylsulphate (R)-p-mentha-1,8-diene Citral	<u>log Pow</u>	<u>BCF</u> L/kg	<u>Potential</u> No bioaccumulable No bioaccumulable High Unlikely, low
		-1.72 2.42 4.38 2.76	3.2 (calculated) 361. (calculated) 87. (calculated)	

12.4	MOBILITY IN SOIL: Not available.			
	<u>Mobility for individual ingredients :</u> Citric acid Sodium mono-C12-C14-alkylsulphate (R)-p-mentha-1,8-diene Citral	<u>log P_{oc}</u>	<u>Constant of Henry</u> Pa·m ³ /mol 20°C	<u>Potential</u> No bioaccumulable No bioaccumulable High Unlikely, low
		-1.16 2.03 3.80 2.61		

12.5	RESULTS OF PBT AND VPvB ASSESSMENT: Annex XIII of Regulation (EC) no. 1907/2006: Does not contain substances that fulfil the PBT/vPvB criteria.			
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12.6	OTHER ADVERSE EFFECTS: <u>Ozone depletion potential:</u> Not applicable. <u>Photochemical ozone creation potential:</u> Not available. <u>Earth global warming potential:</u> Not available. <u>Endocrine disrupting potential:</u> Not available.			
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SECTION 13 : DISPOSAL CONSIDERATIONS

13.1	WASTE TREATMENT METHODS: Directive 2008/98/EC~Regulation (EU) no. 1357/2014: Take all necessary measures to prevent the production of waste whenever possible. Analyse possible methods for revaluation or recycling. Do not discharge into drains or the environment, dispose at an authorised waste collection point. Waste should be handled and disposed in accordance with current local and national regulations. For exposure controls and personal protection measures, see section 8. <u>Disposal of empty containers:</u> Directive 94/62/EC~2015/720/EU, Decision 2000/532/EC~2014/955/EU: Emptied containers and packaging should be disposed in accordance with currently local and national regulations. The classification of packaging as hazardous waste will depend on the degree of emptying of the same, being the holder of the residue responsible for their classification, in accordance with Chapter 15 01 of Decision 2000/532/EC, and forwarding to the appropriate final destination. With contaminated containers and packaging, adopt the same measures as for the product in itself. <u>Procedures for neutralising or destroying the product:</u> Authorised landfill in accordance with local regulations.			
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	Degreaser Ecocert Code: BEC2005007B032	
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SECTION 14 : TRANSPORT INFORMATION

14.1	<u>UN NUMBER:</u> 3262
14.2	<u>UN PROPER SHIPPING NAME:</u> CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (contains sodium hydroxide, in mixture)
14.3	<p><u>TRANSPORT HAZARD CLASS(ES):</u></p> <p><u>Transport by road (ADR 2019) and Transport by rail (RID 2019):</u></p> <ul style="list-style-type: none"> - Class: 8 - Packing group: II - Classification code: C6 - Tunnel restriction code: (E) - Transport category: 2, max. ADR 1.1.3.6. 333 kg - Limited quantities: 1 kg (see total exemptions ADR 3.4) - Transport document: Consignment paper. - Instructions in writing: ADR 5.4.3.4 <p><u>Transport by sea (IMDG 39-18):</u></p> <ul style="list-style-type: none"> - Class: 8 - Packing group: II - Emergency Sheet (EmS): F-A,S-B - First Aid Guide (MFAG): 760 - Marine pollutant: No. - Transport document: Shipping Bill of lading. <p><u>Transport by air (ICAO/IATA 2020):</u></p> <ul style="list-style-type: none"> - Class: 8 - Packing group: II - Transport document: Air Bill of lading. <p><u>Transport by inland waterways (ADN):</u> Not available.</p>
14.4	<u>PACKING GROUP:</u> See section 14.3
14.5	<u>ENVIRONMENTAL HAZARDS:</u> Not applicable (not classified as hazardous for the environment).
14.6	<u>SPECIAL PRECAUTIONS FOR USER:</u> Ensure that persons transporting the product know what to do in case of accident or spill. Always transport in closed containers that are upright and secure.
14.7	<u>TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE:</u> Not available.

**SECTION 15 : REGULATORY INFORMATION**

15.1	<p><u>EU SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC:</u> The regulations applicable to this product generally are listed throughout this Safety Data Sheet.</p> <p><u>Restrictions on manufacture, placing on market and use:</u> See section 1.2</p> <p><u>Tactile warning of danger:</u> If the product is intended for the general public, is mandatory a tactile warning of danger. The technical specifications for tactile warning devices shall conform with EN ISO standard 11683 relating to 'Packaging - Tactile warnings of danger - Requirements.'</p> <p><u>Child safety protection:</u> If the product is intended for the general public, is required a child-resistant fastening. Child-proof fastenings used on reclosable packages shall comply with ISO standard 8317 relating to 'Child resistant packages - Requirements and methods of testing for reclosable packages.' Child-proof fastenings used on non-reclosable packages shall comply with CEN standard EN 862, relating to 'Packaging - Child-resistant packaging - Requirements and testing procedure for non-reclosable packages for non-pharmaceutical products.'</p> <p><u>Specific legislation on detergents:</u> It is applicable the Regulation (EC) No. 648/2004~907/2006 on detergents. Contains anionic surfactants < 5 %, perfumes < 5 %, LIMONENE, CITRAL. Do not swallow.</p> <p><u>OTHER REGULATIONS:</u></p> <p><u>Control of the risks inherent in major accidents (Seveso III):</u> See section 7.2</p> <p><u>Other local legislations:</u> The receiver should verify the possible existence of local regulations applicable to the chemical.</p>
15.2	<u>CHEMICAL SAFETY ASSESSMENT:</u> A chemical safety assessment has not been carried out for this mixture.



Degreaser Ecocert
Code: BEC2005007B032

**SECTION 16 : OTHER INFORMATION**TEXT OF THE PHRASES AND NOTES REFERENCED IN SECTIONS 2 AND/OR 3:Hazard statements according to the Regulation (EU) No. 1272/2008~2018/1480 (CLP), Annex III:

H226 Flammable liquid and vapour. H290 May be corrosive to metals. H302 Harmful if swallowed. 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. 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.

EVALUATION OF THE INFORMATION ON THE DANGER OF MIXTURES: See sections 9.1, 11.1 and 12.1.

ADVICES ON ANY TRAINING APPROPRIATE FOR WORKERS:

It is recommended for all staff that will handle this product to carry out a basic training in occupational risk and prevention, in order to provide understanding and interpretation of Safety Data Sheets and labelling of products as well.

MAIN LITERATURE REFERENCES AND SOURCES FOR DATA:

- European Chemicals Agency: ECHA, <http://echa.europa.eu/>
- Access to European Union Law, <http://eur-lex.europa.eu/>
- Threshold Limit Values, (AGCIH, 2018).
- European agreement on the international carriage of dangerous goods by road, (ADR 2019).
- International Maritime Dangerous Goods Code IMDG including Amendment 39-18 (IMO, 2018).

ABBREVIATIONS AND ACRONYMS:

List of abbreviations and acronyms that can be used (but not necessarily used) in this Safety Data Sheet:

- REACH: Regulation concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals.
- GHS: Globally Harmonized System of Classification and Labelling of Chemicals of the United Nations.
- CLP: European regulation on Classification, Labelling and Packaging of substances and chemical mixtures.
- EINECS: European Inventory of Existing Commercial Chemical Substances.
- ELINCS: European List of Notified Chemical Substances.
- CAS: Chemical Abstracts Service (Division of the American Chemical Society).
- UVCB: Substances of Unknown or Variable composition, complex reaction products or biological materials.
- SVHC: Substances of Very High Concern.
- PBT: Persistent, bioaccumulable and toxic substances.
- vPvB: Very persistent and very bioaccumulable substances.
- DNEL: Derived No-Effect Level (REACH).
- PNEC: Predicted No-Effect Concentration (REACH).
- LD50: Lethal dose, 50 percent.
- LC50: Lethal concentration, 50 percent.
- UN: United Nations Organisation.
- ADR: European agreement concerning the international carriage of dangerous goods by road.
- RID: Regulations concerning the international transport of dangerous goods by rail.
- IMDG: International Maritime code for Dangerous Goods.
- IATA: International Air Transport Association.
- ICAO: International Civil Aviation Organization.

SAFETY DATA SHEET REGULATIONS:

Safety Data Sheet in accordance with Article 31 of Regulation (EC) No. 1907/2006 (REACH) and Annex of Regulation (EU) No. 2015/830.

HISTORIC:

Version: 1

Date of compilation:

08/06/2021

The information of this Safety Data Sheet, is based on the present state of knowledge and on current UE and national laws, as the users' working conditions are beyond our knowledge and control. The product is not to be used for other purposes than those specified, without first obtaining written handling instruction. It is always the responsibility of the user to take all necessary steps in order to fulfil the demand laid down in the local rules and legislation. The information in this Safety Data Sheet is meant as a description of the safety requirements of the product and it is not to be considered as a guarantee of the product's properties.