SAFETY DATA SHEET

in accordance with Regulation (EC) No 1907/2006 of the European Parliament as amended

AMBER All Purpose Cleaner

Prepared on	07/04/2021		
Updated on		Version number	1.0

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

1.1. Product identifier AMBER All Purpose Cleaner

Substance / mixture: mixture

UFI: 9410-H0X5-9004-EV6F

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

Intended uses of the mixture

Cleaning agent.

Uses of the mixture advised against

Do not use for uses other than those indicated in section 1.

Main intended use

Exterior cleaning products — all vehicle types

Additional uses

PC-CLN-16.1	Leather – cleaning and care products
PC-CLN-14.1	Cleaning products for carpet/upholstery.

1.3. Details of the supplier of the safety data sheet

Supplier

Name or business name	AUTO-BLAK Sp. z o.o.
Address	Farbiarska 25a, 02-862 Warsaw, Poland
NIP	PL1230950444
Telephone No.	+48 726 260 607
E-mail	serwis@auto-blak.pl

E-mail address of the competent person responsible for the Safety Data Sheet

Name	Auto Graph Detailing
E-mail	hello@auto-graph.eu

1.4. Emergency telephone number

112

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification of the mixture in accordance with Regulation (EC) No. 1272/2008

The mixture is classified as hazardous.

Skin Irrit. 2, H315
Eye Dam. 1, H318
Aquatic Chronic 3, H412

Full text of all classifications and H statements is provided in section 16.

The most serious negative effects on human health and the environment

Causes skin irritation. Causes serious eye damage. Harmful to aquatic life with long-lasting effects.

2.2. Label elements

Hazard pictogram

Signal word

Danger

Hazardous substances

Tetrasodium EDTA Alkyl polyglycoside C8-10
Alcohols, C9-11, branched and linear, ethoxylated 5-20 TE
Alkyl (C12-16) dimethylbenzyl ammonium chloride (ADBAC/BKC(C12-C16))
Alcohols, C12-15, ethoxylated
geraniol

Hazard statements

H315	Causes skin irritation.
H318	Causes serious eye damage.
H412	Harmful to aquatic life with long-lasting effects.

Precautionary statements

P101	If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children.
P280	Wear eye protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P310	Immediately call a doctor
P501	Dispose of contents/container to an authorised waste disposal point or return to the supplier.

Additional information

EUH208	Contains isoeugenol. May produce an allergic reaction.

<5 % non-ionic surfactants, <5 % EDTA (ethylenediaminetetraacetic acid) and its salts, aromatic compositions, Isoeugenol

2.3. Other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. The mixture does not contain any substance meeting the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical description

Mixture of substances and additives specified below.

The mixture contains the following hazardous substances and substances with specified occupational exposure limits

Identification numbers	Substance name	Content in % weight	Classification in accordance with Regulation (EC) No. 1272/2008	Note
CAS: 34590-94-8 EC: 252-104-2	(2-	4-5	it is not classified as hazardous	1
Index: 603-096-00-8 CAS: 112-34-5 EC: 203-961-6	2-(2-	2-3		1, 2
Index: 607-428-00-2 CAS: 08/02/1964 EC: 200-573-9	Tetrasodium EDTA	1.7-2	Acute Tox. 4, H302 Eye Dam. 1, H318	
CAS: 68515-73-1 EC: 500-220-1 Registration number: 01-2119488530-36	Alkyl polyglycoside C8-	1.7-1.8	Eye Dam. 1, H318	
CAS: 160901-09-7	Alcohols, C9-11, branched and linear, ethoxylated 5-20 TE	0.8-1.1	Acute Tox. 4, H302 Eye Dam. 1, H318	

Identification numbers	Substance name	Content in % weight	Classification in accordance with Regulation (EC) No. 1272/2008	Note 3
CAS: 68424-85-1 EC: 270-325-2 Registration number: 01-2119970550-39	Alkyl (C12-16) dimethylbenzyl ammonium chloride (ADBAC/BKC(C12- C16))	0.7-1	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=1)	
CAS: 68131-39-5 EC: 500-195-7	Alcohols, C12-15, ethoxylated	0.6-0.9	Acute Tox. 4, H302 Eye Dam. 1, H318 Aquatic Chronic 3, H412	
Index: 607-620-00-6 CAS: 5064-31-3 EC: 225-768-6	trisodium nitrilotriacetate	0.01-0.1	Acute Tox. 4, H302 Eye Irrit. 2, H319 Carc. 2, H351 Specific concentration limit Carc. 2, H351: C ≥ 5 %	
Index: 603-241-00-5 CAS: 106-24-1 EC: 203-377-1 Registration number: 01-2119560621-44	geraniol	0.001-0.009	Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Dam. 1, H318	1
Index: 605-019-00-3 CAS: 5392-40-5 EC: 226-394-6	citral α and citral ß	0.0001-0.003	Skin Irrit. 2, H315 Skin Sens. 1, H317	
Index: 604-094-00-X CAS: 97-54-1 EC: 202-590-7	isoeugenol	0.0001-0.002	Skin Sens. 1A, H317 Specific concentration limit: Skin Sens. 1A, H317: C ≥ 0.01 %	

Notes

1 Substance with a Community workplace exposure limit.

2 The use of the substance is restricted in Annex XVII of the REACH Regulation

3 Substances of Unknown or Variable Composition, Complex Reaction Products and Biological Materials - UVCB. Full text of all classifications and H statements is provided in section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a physician and show them information from the product safety data sheet. In the event of unconsciousness, place the victim in a stable position on their side, head slightly tilted to maintain their airway, never induce vomiting. If the victim vomits spontaneously, care should be taken to prevent suffocation from vomit. In the event of a life-threatening situation, first resuscitate the victim and seek medical attention. Apnoea - perform artificial respiration immediately. Cardiac arrest - perform indirect cardiac massage immediately.

Inhalation

Stop exposure immediately, remove victim to fresh air. Protect the victim from catching a cold. Provide medical attention if irritation, shortness of breath or other symptoms persist.

Skin contact

Remove contaminated clothing Put away contaminated clothing. Rinse the contact area with a large volume of - if possible - lukewarm water. If the skin is not injured, you can use soap, soapy water or shampoo. Provide medical attention if irritation persists.

Eye contact

Rinse eyes immediately with a stream of water, lift the eyelids (even with force); if the victim wears contact lenses, remove them immediately. Rinse eyes immediately with a stream of water, lift the eyelids (even with force); if the victim wears contact lenses, remove them immediately. Do not neutralise in any case! Rinse for 10-30 minutes from the inner to the outer corner to prevent the other eye from becoming contaminated. Depending on the situation, call an ambulance or provide medical attention as soon as possible. Everyone should be referred for tests, even in the case of minor contamination.

Ingestion

Rinse mouth with water and drink 2-5 dl of water. In the case of a person with health problems, provide medical attention.

4.2. Most important symptoms, acute and delayed and effects of exposure Inhalation

Inhalation of vapour may cause damage to the respiratory system.

Skin contact

Causes skin irritation.

Eye contact Causes serious eye damage. **Ingestion**

The digestive system may be damaged.

4.3. Indication of immediate medical attention and special treatment needed, if necessary

Symptomatic treatment

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Alcohol-resistant foam, carbon dioxide, powder, water spray, water mist.

Not suitable extinguishing media

Water - full jet.

5.2. Specific hazards arising from the substance or mixture

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

5.3. Advice for firefighter

Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Use a self-contained breathing apparatus and full-body protective clothing. Do not allow contaminated fire extinguishing material to enter drains or surface and ground water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment for work. Follow the instructions provided in Sections 7 and 8. Prevent contact with skin and eyes.

6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water.

6.3. Methods and material for containment and cleaning up

Cover spilled product with suitable (non-flammable) absorbent material (sand, silica, soil and other suitable absorbent materials, etc.); collect in well-closed containers and dispose of according to Section 13. In the event of leakage of the substantial amount of the product, inform the fire brigade and other

competent authorities. After removal of the product, wash the contaminated site with plenty of water. Do not use solvents.

6.4. Reference to other sections

See sections 7, 8 and 13.

SECTION 7: Handling and storage of substances and mixtures

7.1. Precautions for safe handling

Prevent the formation of gases and vapours in concentrations exceeding the occupational exposure limits. Prevent contact with skin and eyes. Wash hands and affected body parts thoroughly after handling. Use personal protective equipment in accordance with Section 8. Observe valid legal regulations on safety and health protection. Avoid release to the environment.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed containers in a dedicated, cool, dry and well ventilated place.

Content	Type of packaging	Packaging material
200 ml	bottle	HDPE
500 ml	bottle	HDPE
750 ml	bottle	HDPE
1,000 ml	bottle	HDPE
5 l	canister	HDPE
10 l	canister	HDPE
20 l	canister	HDPE
25 l	canister	HDPE
30 l	canister	HDPE
100 l	barrel	HDPE
200 l	barrel	HDPE

7.3. Specific end use(s)

data not available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

The mixture contains substances for which occupational exposure limits are set.

Poland **Journal of Laws 2018**

Substance name	Typ	Value	Note
(2-methoxymethylethoxy)propanol (CAS: 34590-	TLV	240 mg/m³	Labelling the substance with the notation means that the absorption of the substance through the skin may be as important as in the
	STEL	480 mg/m³	
2-(2-butoxyethoxy)ethanol (CAS: 112-34-5)	TLV	67 mg/m³	
	STEL	100 mg/m³	
	TLV	27 mg/m³	
	STEL	54 mg/m³	

item 1286

DNEL

(2-methoxymethylethoxy)propanol

consumers	Route of exposure	Value	Effect method	Determining
Workers	Inhalation	308 mg/m³ air		
Workers	Dermal Inhalation	283 mg/kg bw/day	Systemic chronic effects	
Consumers		37.2 mg/m³ air	Systemic chronic effects	
Consumers	Dermal Ingestion	121 mg/kg bw/day	Systemic chronic effects	
Workers		36 mg/kg bw/day	Systemic chronic effects	

2-(2-butoxyethoxy)ethanol

Workers / consumers	Route of exposure	Value	Effect	Determining method
Workers	Inhalation	67.5 mg/m³ air	Systemic chronic effects Local	
Workers	Inhalation	67.5 mg/m³ air	chronic effects Short-term local	
Workers	Inhalation	101.2 mg/m³ air	effects Local chronic effects	
Workers	Dermal	83 mg/kg bw/day	Systemic chronic effects Local	
Consumers	Inhalation	40.5 mg/m³ air	chronic effects Short-term local	
Consumers	Inhalation	40.5 mg/m³ air	effects Local chronic effects	
Consumers	Inhalation	60.7 mg/m³ air	Systemic chronic effects	
Consumers	Dermal	50 mg/kg bw/day		
Consumers	Ingestion	5 mg/kg bw/day		

Alkyl (C12-16) dimethylbenzyl ammonium chloride (ADBAC/BKC(C12-C16))

Workers / consumers	Route of exposure	Value 3.96	Effect	Determining method
Consumers		mg/m³	Systemic chronic effects Systemic	
Consumers	Inhalation Dermal	5.7 mg/kg bw/day	chronic effects	

Alkyl polyglycoside C8-10

Workers / consumers	Route of exposure	Value 420	Effect	Determining method
Workers		mg/m³	Systemic chronic effects Systemic	
Consumers	Inhalation	124 mg/m³	chronic effects Systemic chronic	
Workers	Inhalation Dermal	59500 mg/kg bw/day	effects	
Consumers	Dermal Ingestion	35700 mg/kg bw/day	Systemic chronic effects Systemic	
Consumers		35.7 mg/kg bw/day	chronic effects	

Alcohols, C12-15, ethoxylated

Workers / consumers	Route of exposure	Value 294	Effect	Determining method
Workers		mg/m³	Systemic chronic effects Systemic	
Consumers	Inhalation	87 mg/m³	chronic effects Systemic chronic	
Consumers	Inhalation Dermal	1250 mg/kg bw/day	effects	
Consumers	Ingestion	25 mg/kg bw/day	Systemic chronic effects	

Alcohols, C9-11, branched and linear, ethoxylated 5-20 TE

Workers / consumers	Route of exposure	Value 294	Effect	Determining method
Workers		mg/m³	Systemic chronic effects Systemic	
Consumers	Inhalation	87 mg/m³	chronic effects Systemic chronic	
Workers	Inhalation Dermal	2080 mg/kg bw/day	effects	
Consumers	Dermal Ingestion	1250 mg/kg bw/day	Systemic chronic effects Systemic	
Workers citral α		25 mg/kg bw/day	chronic effects	

and citral ß

Workers / consumers	Route of exposure	Value 9	Effect	Determining method
Workers	Inhalation	mg/m³	Systemic chronic effects Systemic	
Consumers	Dermal	2.7 mg/m³	chronic effects Systemic chronic	
Workers	Dermal	1.7 mg/kg bw/day	effects	
Consumers	Dermal	1 mg/kg bw/day	Systemic chronic effects Local	
Workers	Ingestion	0.140 mg/cm²	chronic effects Local chronic	
Consumers	Route of exposure	0.140 mg/cm²	effects Systemic chronic effects	
Consumers	Inhalation	0.6 mg/kg bw/day		

geraniol

Workers / consumers	Route of exposure	Value 161.6	Effect	Determining method
Workers	Inhalation	mg/m³	Systemic chronic effects Systemic chronic effects Systemic chronic effects	
Consumers	Dermal	47.8 mg/m³		
Workers	Dermal	12.5 mg/kg bw/day	Systemic chronic effects Local	
Consumers Workers	Dermal	7.5 mg/kg bw/day	chronic effects Local chronic	
Consumers	Ingestion	11.8 mg/cm²	effects Local chronic effects	
Consumers trisodium	Inhalation	11.8 mg/cm²		
nitrilotriacetate	Inhalation	13.75 mg/kg bw/day	Effect Systemic chronic effects Systemic chronic effects	

Workers / consumers

Workers Consumers	Route of exposure	Value 3.2	Effect	Determining method
Workers	Ingestion	mg/m³	Short-term systemic effects Short-term systemic effects Systemic chronic effects	
	Inhalation	0.8 mg/m³		
Workers	Inhalation	5.25 mg/m³	Short-term systemic effects	
Consumers	Inhalation	1.75 mg/m³		
Consumers	Dermal	0.3 mg/kg bw/day		
	Dermal	0.5 mg/kg bw/day		

Tetrasodium EDTA

Workers / consumers	Route of exposure	Value	Effect	Determining
Workers	Dermal Dermal	1.5 mg/m³	Local chronic effects	
Workers	Dermal Dermal	3 mg/m³	Short-term local effects	
Consumers		0.6 mg/m³	Local chronic effects	
Consumers		1.2 mg/m³	Short-term local effects	

PNEC

2-(2-butoxyethoxy)ethanol

Route of exposure	Value	Determining
method Drinking water	1.1 mg/l	
Water (periodic leak)	11 mg/l	
Seawater	110 µg/l	
Microorganisms in wastewater treatment		200 mg/l
plants Freshwater sediments		4.4 mg/kg of dry weight of sediment 0.44 mg/kg of dry weight of sediment
Sea sediments		0.32 mg/kg of soil dry matter 56 mg/kg of food
Soil (agricultural)		Value 176 µg/l
Food chain		270 µg/l
Alkyl polyglycoside C8-		17.6 µg/l
10 Route of exposure		560 mg/l
Drinking water		1.516 mg/kg of dry weight of sediment
Water (periodic leak)		0.152 mg/kg of dry weight of sediment
Seawater		
Microorganisms in wastewater treatment		Value 51.4 µg/l
plants Freshwater		5.1 µg/l 1.4 µg/l
sediments Sea		10 g/l
sediments		81.64 mg/kg of dry weight of sediment 8.16 mg/kg of dry weight of sediment

Alcohols, C12-15, ethoxylated

Route of exposure		
Drinking water		
Seawater		
Water (periodic leak)		
Microorganisms in wastewater treatment		
plants Freshwater		
sediments Sea		
sediments		

Determining method

Determining method

Alcohols, C9-11, branched and linear, ethoxylated 5-20 TE

Route of exposure	Value	Determining
	103.79 µg/l	

Alcohols, C9-11, branched and linear, ethoxylated 5-20 TE

Route of exposure	Value	Determining
method Water (periodic leak)	14 µg/l	
Seawater	103.79 µg/l	
Microorganisms in wastewater treatment		1.4 mg/l
plants Freshwater		13.7 mg/kg of dry weight of sediment 13.7 mg/kg of dry weight of sediment
sediments Sea		

sediments

Value 6.78 µg/l
67.8 µg/l
678 µg/l
1.6 mg/l

citral α and citral ß

Route of		
exposure		12.5 µg/kg 125 µg/kg
Drinking water		
Water (periodic leak)		
Seawater		Value 10.8 µg/l 108 µg/l
Microorganisms in wastewater treatment		1.08 µg/l
plants		700 µg/l

Sea sediments
Freshwater
sediments geraniol

0.115 mg/kg of dry weight of sediment
0.0115 mg/kg of dry weight of sediment

Route of		
exposure		Value 930 µg/l 93 µg/l
Drinking water		800-915 µg/l
Water (periodic leak)		270-540 mg/l
Seawater		3.64 mg/kg of dry weight of sediment
Microorganisms in wastewater treatment plants		0.364 mg/kg of dry weight of sediment
Freshwater sediments		

Sea sediments

trisodium nitrilotriacetate

Route of exposure		
Drinking		
water		
Seawater		
Water (periodic leak)		
Microorganisms in wastewater treatment plants		
Freshwater sediments		

Sea sediments

Tetrasodium EDTA

Route of exposure	Value	Determining
Drinking water	2.2 mg/l	
Water (periodic leak)	1.2 mg/l	
Seawater	220 µg/l	
Microorganisms in wastewater treatment	43 mg/l	

Determining method

Determining method

Determining method

8.2. Exposure controls

Follow the usual measures intended for health protection at work and especially for good ventilation. This can be achieved by local air suction or efficient general ventilation. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

Eye protection

Protective goggles or face shield (based on the nature of the work performed).

Skin protection

Hand protection: Protective gloves resistant to the product. When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. Observe other recommendations of the manufacturer. Other protection: protective workwear. Contaminated skin should be washed thoroughly.

Respiratory protection

A half-mask with a filter against organic vapours, or an isolating respirator in the event of exceeding the level of the substance or in an environment with poor ventilation.

Thermal hazard

Data not available.

Environmental exposure control

Observe usual measures for the protection of the environment, see Section 6.2.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	liquid
Colour	brown
Odour	data not available
Melting point/freezing point	data not
available Boiling point or initial boiling point and boiling range	data not
Flammability of the materials	data not available
Lower and upper explosive limit	data not available
Flash point	data not available
Autoignition temperature	data not available
Decomposition temperature	data not available
pH	10-11 (undiluted)
Kinematic viscosity	data not available
Solubility in water	data not available
Partition coefficient: n-octanol/water (log value)	data not available
Vapour pressure	data not available
Density or relative density	
density	0.9 - 1.1 g/cm³
Relative vapour density	data not available
Particle characteristics	data not available

9.2. Other information

data not available

SECTION 10: Stability and reactivity

10.1. Reactivity

data not available

10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions

Unknown.

10.4. Conditions to avoid

The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost.

10.5. Incompatible materials

Protect against strong acids and bases as well as oxidising agents.

10.6. Hazardous decomposition products

Under normal conditions of use, hazardous decomposition products should not be produced. Dangerous products such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

SECTION 11: Toxicological information

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

Inhalation of solvent vapours above the occupational exposure limits may lead to acute inhalation poisoning, depending on the concentration level and duration of exposure. No toxicological data is available for the mixture.

Acute toxicity

Based on available data the classification criteria are not met.

(2-methoxymethylethoxy)propanol

Route of exposure	Parameter	Value	Time of exposure	Species	Sex
Ingestion	LD_{50}	>5,000 mg/kg		Rat (Rattus norvegicus) Rat (Rattus norvegicus)	
Dermal Inhalation	LD_{50}	>9500 mg/kg		Rat (Rattus norvegicus)	
	LC_{50}	>275 ppm	7 hours		

2-(2-butoxyethoxy)ethanol

Route of exposure	Parameter	Value	Time of exposure	Species	Sex
Ingestion	LD_{50}	2410 mg/kg		Mouse	F/M
Ingestion	LD_{50}	2764 mg/kg		Rabbit	F/M

Alkyl (C12-16) dimethylbenzyl ammonium chloride (ADBAC/BKC(C12-C16))

Route of exposure	Parameter	Value	Time of exposure	Species	Sex
Ingestion	LD_{50}	344 mg/kg		Rat (Rattus norvegicus)	F/M
Dermal	LD_{50}	3340 mg/kg	24 hours	Rabbit	F/M

Alcohols, C12-15, ethoxylated

Route of exposure	Parameter	Value	Time of exposure	Species	Sex
Ingestion	LD_{50}	>300 mg/kg		Rabbit	

Alcohols, C9-11, branched and linear, ethoxylated 5-20 TE

Route of exposure	Parameter	Value	Time of exposure	Species	Sex
Ingestion	LD_{50}	>1200 mg/kg		Rat (Rattus norvegicus)	

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/irritation
Causes serious eye damage.

Alcohols, C9-11, branched and linear, ethoxylated 5-20 TE

Route of	Result	Time of exposure	Species
	Irritating		Rabbit

Sensitisation

Alkyl (C12-16) dimethylbenzyl ammonium chloride (ADBAC/BKC(C12-

C16)) Route of exposure of		Result	Method Time exposure	Species	Sex
	Not sensitising	OECD 406		Guinea pig (Cavia aperea f. porcellus)	F/M

Respiratory or skin sensitisation
Based on available data the classification criteria are not met.

Mutagenicity

Alkyl (C12-16) dimethylbenzyl ammonium chloride (ADBAC/BKC(C12-

C16)) Result	Method	Time of exposure	Specific target organ	Species	Sex
Negative	OECD 471			Bacteria (Salmonella typhimurium)	

Germ cell mutagenicity
Based on available data the classification criteria are not met.

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

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

Specific target organ toxicity – single exposure
Based on available data the classification criteria are not met.

Specific target organ toxicity – repeated exposure
Based on available data the classification criteria are not met.

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

11.2. Information on other hazards
data not available

SECTION 12: Ecological information

12.1. Toxicity

Acute toxicity

Harmful to aquatic life with long-lasting effects.

2-(2-butoxyethoxy)ethanol

Parameter	Method	Value	Time of exposure	Species	Environment
LC_{50}		1300 mg/l		Fish (Lepomis macrochirus)	
CE_{50}		>100 mg/l		Daphnia (Daphnia magna)	
CE_{50}	OECD 201	>100 mg/l		Algae (Selenastrum capricornutum)	
EC 10	OECD 209	>1995 mg/l		Aquatic microorganisms	

Alkyl (C12-16) dimethylbenzyl ammonium chloride (ADBAC/BKC(C12-C16))

Parameter	Method	Value	Time of exposure	Species	Environment
CE_{50}	EU C.2 (92/69/EEC)	0.016 mg/l	48 hours	Daphnia (Daphnia magna)	Fresh water
CE_{50}	OECD 201	0.049 mg/l	72 hours	Algae (Pseudokirchneriella subcapitata)	Fresh water
CE_{50}	OECD 209	7.75 mg/l	3 hours	Bacteria	Fresh water
CE_{50}	OECD 201	0.03 mg/l	96 hours	Algae (Pseudokirchneriella subcapitata)	Fresh water
CE_{50}	EU C.2 (92/69/EEC)	0.0059 ppm		Daphnia (Daphnia magna)	Fresh water
LC_{50}	OECD 203	1.28 mg/l	48 hours	Fish (Cyprinus variegatus)	Seawater
LC_{50}	OECD 203	0.515 mg/l	96 hours	Fish (Lepomis macrochirus)	Fresh water
LC_{50}	OECD 203	0.28 ppm	96 hours	Fish (Pimephales promelas)	Fresh water

Chronic toxicity

Alkyl (C12-16) dimethylbenzyl ammonium chloride (ADBAC/BKC(C12-C16))

Parameter	Method	Value	Time of exposure	Species	Environment
NOEC	EPA OPP 72-4	0.0042 mg/l	21 days	Daphnia (Daphnia magna)	
NOEC	EPA OPP 72-4	0.0332 mg/l	96 hours	Fish (Pimephales promelas)	Fresh water

12.2. Persistence and degradability

Biodegradation

2-(2-butoxyethoxy)ethanol

Parameter	Method	Value	Time of BOD exposure	Environments	Result
	OECD 301C	80-90 %	28 dzień		

Alkyl (C12-16) dimethylbenzyl ammonium chloride (ADBAC/BKC(C12-C16)) Parameter

Method	Value	Time of exposure	Environments	Result
OECD 301B	95.5 %	28 days		Easily biodegradable
OECD 301D	>60 %	28 days		Easily biodegradable

data not available

12.3. Bioaccumulative potential

Alkyl (C12-16) dimethylbenzyl ammonium chloride (ADBAC/BKC(C12-C16))

Parameter	Value	Time of exposure	Species	Environment	Ambient temperature
Log Pow	0.5				[°C]
BCF	67.62				

Data not available.

12.4. Mobility in soil

Data not available.

12.5. Results of PBT and vPvB assessment

The product does not contain any substance meeting the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

12.6. Endocrine disrupting properties

data not available

12.7. Other adverse effects

Data not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with The Act of 14 December 2012 on waste (Journal of Laws of 2020, item 797, as amended) and the executive regulations on waste disposal.

Waste management legislation

Act of 14 December 2012 on waste (Journal of Laws of 2020, item 797, as amended). Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Directive 94/62/EC on packaging and packaging waste. Regulation of the Minister of Climate of 2 January 2020 on the catalogue of wastes (Journal of Laws of 2020, item 10)

Waste type code

20 01 29 Detergents containing dangerous substances *

Packaging waste type code

15 01 02 Plastic packaging

(*) - hazardous waste according to Directive 2008/98/EC on hazardous waste

SECTION 14: Transport information

14.1. UN number or ID number

Not subject to ADR

14.2. UN proper shipping name

data not available

14.3. Transport hazard class(es)

data not available

14.4. Packing group

data not available

14.5. Environmental hazards

not applicable

14.6. Special precautions for users

Reference in sections 4 to 8.

14.7. Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information

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

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC (Journal of Laws L 396 of 30 December 2006, as amended).
Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (Journal of Laws L 203 of 26 June 2020, as amended).
REGULATION (EC) NO. 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004 on detergents (Journal of Laws L 104 of 8.4.2004, as amended).
Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of 16th December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No. 1907/2006 (Journal of Laws L 353 of 31 December 2008, as amended).
European agreement concerning the international carriage of dangerous goods by road (ADR), concluded in Geneva on 30 September 1957.
Act of 25 February 2011 on the chemical substances and their mixtures (Journal of Laws of 2011 No. 63 item 322, as amended). Act of 14 December 2012 on waste (Journal of Laws of 2013, item 21, as amended).
Act of 13 June 2013 on packaging management and packaging waste (Journal of Laws of 2013, item 888, as amended).
Act of 19 August 2011 on the transport of dangerous goods (Journal of Laws of 2011 No. 227, item 1367, as amended). Regulation of the minister of health of 30 December 2004 on health and safety at work associated with the presence of chemical agents in the workplace (Journal of Laws of 2005 No. 11 item 86, as amended).

Restriction in accordance with Annex XVII of Regulation (EC) No. 1907/2006 (REACH), as amended.

2-(2-butoxyethoxy)ethanol

Restriction	Conditions of
restriction 55 general public,	1. Shall not be placed on the market for the first time after 27 June 2010, for supply to the as a constituent of spray paints or spray cleaners in aerosol dispensers in concentrations equal to or greater than 3 % by weight. 2. Spray paints and spray cleaners in aerosol dispensers containing DEGBE and not conforming to paragraph 1 shall not be placed on the market for supply to the general public after 27 December 2010. 3. Without prejudice to other Community legislation concerning the classification, packaging and labelling of substances and mixtures, suppliers shall ensure before the placing on the market that

15.2. Chemical safety assessment

A safety assessment for the mixture is not required.

SECTION 16: Other information

A list of hazard statements used in the safety data sheet

H- it is not classified as hazardous

H302	Harmful if swallowed.
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.
H351	Suspected of causing cancer.
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.

A list of precautionary statements used in the safety data sheet

P101	If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children.
P280	Wear eye protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P310	Immediately call a doctor
P501	Dispose of contents/container to an authorised waste disposal point or return to the supplier.

A list of additional hazard statements used in the safety data sheet

EUH208	Contains isoeugenol. May produce an allergic reaction.

Further information important for the safety and protection of human health

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than those specified in Section 1. The user is responsible for adherence to all related health protection regulations.

Key to abbreviations and acronyms used in the safety data sheet

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CE_{50}	Concentration of a substance which affects 50% of the population
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DNEL	Derived No-Effect Level
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency plan
EuPCS	European Product Categorisation System
IATA	International Air Transport Association
IBC	International code for the construction and equipment of ships carrying dangerous chemicals in bulk
IC_{50}	Half maximal inhibitory concentration
ICAO	International Civil Aviation Organisation
IMDG	International Maritime Dangerous Goods INCI International Nomenclature of Cosmetic Ingredients
ISO	International Organisation for Standardisation
IUPAC	International Union of Pure and Applied Chemistry
LC_{50}	Lethal concentration of a substance which can be expected to cause the death of 50% of the population
LD_{50}	Lethal dose of a substance which can be expected to cause the death of 50% of the population
LOAEC	Lowest Observed Adverse Effect Concentration
LOAEL	Lowest Observed Adverse Effect Level
log Kow	Octanol-water partition coefficient
VOC	Volatile Organic Compounds
MARPOL	International Convention for the Prevention of Pollution from Ships TLV Threshold Limit Value
STEL	Short-Term Exposure Limit
CEL	Ceiling Exposure Limit
NOAEC	No-observed-adverse-effect concentration NOAEL No-observed-adverse-effect level NOEC No-observed-effect concentration

NOEL	No-observed-effect level
OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals RID Regulation concerning the International Carriage of Dangerous Goods by Rail
EU	European Union
UN	Four-digit identification number of the substance or article based on "UN Model Regulations"
UVCB	Chemical Substances of Unknown or Variable Composition, Complex Reaction Products and Biological Materials
vPvB	Very Persistent and very Bioaccumulative EC Identification code for each substance listed in the EINECS

Acute Tox.	Acute toxicity
Aquatic Acute	Hazardous to the aquatic environment (acute) Aquatic
Chronic	Hazardous to the aquatic environment (chronic) Not
classified	Not classified
Carc.	Carcinogenicity
Eye Dam.	Serious eye damage
Eye Irrit.	Eye irritation
Skin Corr.	Skin corrosion
Skin Irrit.	Skin irritation
Skin Sens.	Skin sensitisation

Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

Recommended restrictions of use

data not available

Information about data sources used to compile the safety data sheet

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council (REACH) as amended. Regulation (EC) No. 1272/2008 of the European Parliament and of the Council as amended. Data from the manufacturer of the substance/mixture, if available - information from registration dossiers.

More information

Classification procedure - calculation method.

Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.