

Safety Data Sheet

According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH

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

1.1. Product identifier

Code: [ACS016] - 484000008642
 [ACS017] - 484000008934
 Product name: WPRO-Hygienizer and deodoriser for air conditioner
 UFI: T500-X0U5-F00X-YJQP

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

Intended use Hygienizer and deodoriser

1.3. Details of the supplier of the safety data sheet

Name Beko Italy Manufacturing Srl
 Full address Via Varesina, 204
 District and Country 20156 Milano – Italy
 e-mail address of the competent person responsible for the Safety Data Sheet sds@dgsasrl.it

1.4. Emergency telephone number

For urgent inquiries refer to ENGLAND, SCOTLAND (NHS 24) WALES (NHS Direct Wales) - For medical advice contact 111

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2020/878.

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Serious eye damage, category 1	H318	Causes serious eye damage.
Skin irritation, category 2	H315	Causes skin irritation.

2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:



Signal words: Danger

Hazard statements:

H318	Causes serious eye damage.
H315	Causes skin irritation.
EUH208	Contains: 1-(octahydro-2,3,8-tetramethyl-2-naphthyl) ethane-1-one May produce an allergic reaction.

Precautionary statements:

P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P280	Wear protective gloves / eye protection / face protection.
P310	Immediately call a POISON CENTER / doctor.
P264	Wash hands thoroughly after handling.
P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read label before use.

Contains: ISOTRIDECANOL, ETHOXYLATED
 ETHANOLAMINE

Ingredients according to Regulation (EC) No. 648/2004: phosphates, non-ionic surfactants, soap <5%. Perfumes.

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage $\geq$ than 0.1%.

The product does not contain substances with endocrine disrupting properties in concentration $\geq$ 0.1%.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification (EC) 1272/2008 (CLP)
ETHANOL		
INDEX 603-002-00-5	$1 \leq x < 3$	Flam. Liq. 2 H225, Eye Irrit. 2 H319
EC 200-578-6		Eye Irrit. 2 H319: $\geq 50\%$
CAS 64-17-5		
REACH Reg. 01-2119457610-43		
ETHANOLAMINE		
INDEX 603-030-00-8	$1 \leq x < 2$	Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332, Skin Corr. 1B H314, Eye Dam. 1 H318, STOT SE 3 H335
EC 205-483-3		STOT SE 3 H335: $\geq 5\%$
CAS 141-43-5		STA Oral: 500 mg/kg, STA Dermal: 1100 mg/kg, STA Inhalation vapours: 11 mg/l, STA Inhalation mists/powders: 1,5 mg/l
ISOTRIDECANOL, ETHOXYLATED		
INDEX -	$1 \leq x < 2$	Acute Tox. 4 H302, Eye Dam. 1 H318
EC 500-241-6		STA Oral: 500 mg/kg
CAS 69011-36-5		
POTASSIUM PYROPHOSPHATE		
INDEX -	$0,5 \leq x < 1$	Eye Irrit. 2 H319
EC 230-785-7		
CAS 7320-34-5		
PROPAN-2-OL		
INDEX 603-117-00-0	$0,5 \leq x < 1,2$	Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336
EC 200-661-7		
CAS 67-63-0		
REACH Reg. 01-2119457558-25		
2-BUTOXYETHANOL		
INDEX 603-014-00-0	$0,1 \leq x < 0,2$	Acute Tox. 4 H302, Acute Tox. 4 H332, Eye Irrit. 2 H319, Skin Irrit. 2 H315
EC 203-905-0		LD50 Oral: 1200 mg/kg, STA Inhalation vapours: 11 mg/l
CAS 111-76-2		
1-(octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethane-1-one		
INDEX -	$0,1 \leq x < 0,2$	Skin Irrit. 2 H315, Skin Sens. 1B H317, Aquatic Chronic 1 H410 M=1
EC 915-730-3		
CAS 67874-81-1		
REACH Reg. 01-2119489989-04		

The full wording of hazard (H) phrases is given in section 16 of the sheet.

SECTION 4. First aid measures

4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.

INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

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

Specific information on symptoms and effects caused by the product are unknown.

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

Information not available

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

Extinguishing substances are: carbon dioxide, foam, chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak.

UNSUITABLE EXTINGUISHING EQUIPMENT

Do not use jets of water. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Excess pressure may form in containers exposed to fire at a risk of explosion. Do not breathe combustion products.

5.3. Advice for firefighters

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated

water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. When performing transfer operations involving large containers, connect to an earthing system and wear antistatic footwear. Vigorous stirring and flow through the tubes and equipment may cause the formation and accumulation of electrostatic charges. In order to avoid the risk of fires and explosions, never use compressed air when handling. Open containers with caution as they may be pressurised. Do not eat, drink or smoke during use. Avoid leakage of the product into the environment.

7.2. Conditions for safe storage, including any incompatibilities.

Store only in the original container. Store the containers sealed, in a well-ventilated place, away from direct sunlight. Store in a cool and well-ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

Storage class TRGS 510 (Germany): 10

7.3. Specific end use(s)

See Subsection 1.2

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory References:

CZE	Česká Republika	Nařízení vlády č. 41/2020 Sb. Nařízení vlády, kterým se mění nařízení vlády č. 361/2007 Sb., kterým se stanoví podmínky ochrany zdraví při práci, ve znění pozdějších předpisů
DEU	Deutschland	Technischen Regeln für Gefahrstoffe (TRGS 900) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte. MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Mitteilung 56
ESP	España	Límites de exposición profesional para agentes químicos en España 2021
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
GRC	Ελλάδα	Π.Δ. 26/2020 (ΦΕΚ 50/Α` 6.3.2020) Εναρμόνιση της ελληνικής νομοθεσίας προς τις διατάξεις των οδηγιών 2017/2398/ΕΕ, 2019/130/ΕΕ και 2019/983/ΕΕ «για την τροποποίηση της οδηγίας 2004/37/ΕΚ `σχετικά με την προστασία των εργαζομένων από τους κινδύνους που συνδέονται με την έκθεση σε καρκινογόνους ή μεταλλαξιογόνους παράγοντες κατά την εργασία`»
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
NLD	Nederland	Arbeidsomstandighedenregeling. Lijst van wettelijke grenswaarden op grond van de artikelen 4.3, eerste lid, en 4.16, eerste lid, van het Arbeidsomstandighedenbesluit
PRT	Portugal	Decreto-Lei n.º 1/2021 de 6 de janeiro, valores-limite de exposição profissional indicativos para os agentes químicos. Decreto-Lei n.º 35/2020 de 13 de julho, proteção dos trabalhadores contra os riscos ligados à exposição durante o trabalho a agentes cancerígenos ou mutagénicos
POL	Polska	Rozporządzenie ministra rozwoju, pracy i technologii z dnia 18 lutego 2021 r. Zmieniające rozporządzenie w sprawie najwyższych dopuszczalnych stężeń i natężeń czynników szkodliwych dla zdrowia w środowisku pracy
SVK	Slovensko	NARIADENIE VLÁDY Slovenskej republiky z 12. augusta 2020, ktorým sa mení a dopĺňa nariadenie vlády Slovenskej republiky č. 356/2006 Z. z. o ochrane zdravia zamestnancov pred rizikami súvisiacimi s expozíciou karcinogénnym a mutagénym faktorom pri práci v znení neskorších predpisov
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Fourth Edition 2020)
EU	OEL EU	Directive (EU) 2022/431; Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2021

ETHANOL

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	CZE	1000	522	3000	1566	
AGW	DEU	380	200	1520	800	

MAK	DEU	380	200	1520	800
VLA	ESP			1910	1000
VLEP	FRA	1900	1000	9500	5000
TLV	GRC	1900	1000		
TGG	NLD	260		1900	SKIN
NDS/NDSch	POL	1900			
NPEL	SVK	960	500	1920	1000
WEL	GBR	1920	1000		
TLV-ACGIH				1884	1000
Predicted no-effect concentration - PNEC					
Normal value in fresh water				0,96	mg/l
Normal value in marine water				0,79	mg/l
Normal value for fresh water sediment				3,6	mg/kg
Normal value for marine water sediment				2,9	mg/kg
Normal value for water, intermittent release				2,75	mg/l
Normal value of STP microorganisms				580	mg/l
Normal value for the food chain (secondary poisoning)				720	mg/kg
Normal value for the terrestrial compartment				0,63	mg/kg

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				87 mg/kg bw/d				
Inhalation				114 mg/m3	1900 mg/m3			950 mg/m3
Skin				206 mg/kg bw/d				343 mg/kg bw/d

ETHANOLAMINE

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	CZE	2,5	0,985	7,5	2,955	
AGW	DEU	0,5	0,2	0,5	0,2	SKIN
MAK	DEU	0,51	0,2	0,51	0,2	
VLA	ESP	2,5	1	7,5	3	SKIN
VLEP	FRA	2,5	1	7,6	3	SKIN
TLV	GRC	2,5	1	7,6	3	
VLEP	ITA	2,5	1	7,6	3	SKIN
TGG	NLD	2,5		7,6		SKIN
VLE	PRT	2,5	1	7,6	3	SKIN
NDS/NDSch	POL	2,5		7,5		SKIN
NPEL	SVK	2,5	1	7,6	3	SKIN
WEL	GBR	2,5	1	7,6	3	SKIN
OEL	EU	2,5	1	7,6	3	SKIN
TLV-ACGIH		7,5	3	15	6	

PROPAN-2-OL

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	CZE	500	200	1000	400	
AGW	DEU	500	200	1000	400	
MAK	DEU	500	200	1000	400	
VLA	ESP	500	200	1000	400	
VLEP	FRA			980	400	
TLV	GRC	980	400	1225	500	
TGG	NLD	650				
NDS/NDSch	POL	900		1200		SKIN
NPEL	SVK	500	200	1000	400	
WEL	GBR	999	400	1250	500	
TLV-ACGIH		492	200	983	400	
Predicted no-effect concentration - PNEC						
Normal value in fresh water				140,9	mg/l	
Normal value in marine water				140,9	mg/l	
Normal value for fresh water sediment				552	mg/kg	
Normal value for marine water sediment				552	mg/kg	
Normal value of STP microorganisms				2251	mg/l	
Normal value for the food chain (secondary poisoning)				160	mg/kg	
Normal value for the terrestrial compartment				28	mg/kg	

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				26 mg/kg				
Inhalation				89 mg/l				500 mg/l
Skin				319 mg/kg				888 mg/kg

2-BUTOXYETHANOL**Threshold Limit Value**

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	CZE	100	20,4	200	40,8	SKIN
AGW	DEU	49	10	98 (C)	20 (C)	SKIN
MAK	DEU	49	10	98	20	SKIN Hinweis
VLA	ESP	98	20	245	50	SKIN
VLEP	FRA	49	10	246	50	SKIN
TLV	GRC	120	25			
VLEP	ITA	98	20	246	50	SKIN
TGG	NLD	100		246		SKIN
VLE	PRT	98	20	246	50	SKIN
NDS/NDSch	POL	98		200		SKIN
NPEL	SVK	98	20	246	50	SKIN
WEL	GBR	123	25	246	50	SKIN
OEL	EU	98	20	246	50	SKIN
TLV-ACGIH		97	20			

1-(octahydro-2,3,8,8-tetramethyl-2-naphthyl) ethane-1-one

Predicted no-effect concentration - PNEC	
Normal value in fresh water	4,4 µg/L

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified ; LOW = low hazard ; MED = medium hazard ; HIGH = high hazard.

8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

SECTION 9. Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Properties	Value	Information
Appearance	liquid	
Colour	straw-coloured	
Odour	characteristic	

Melting point / freezing point	not available
Initial boiling point	not available
Flammability	not flammable
Lower explosive limit	not available
Upper explosive limit	not available
Flash point	> 60 °C
Auto-ignition temperature	not available
Decomposition temperature	not available
pH	10,4
Kinematic viscosity	not applicable
Solubility	not available
Partition coefficient: n-octanol/water	not available
Vapour pressure	not available
Density and/or relative density	1,00
Relative vapour density	not available
Particle characteristics	not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Information not available

9.2.2. Other safety characteristics

VOC (Directive 2010/75/EU)	5,25 % - 52,28 g/litre
VOC (volatile carbon)	2,69 % - 26,76 g/litre
Explosive properties	not applicable
Oxidising properties	not applicable

SECTION 10. Stability and reactivity

10.1. Reactivity

The product may react exothermically on contact with strong oxidising or reducing agents, strong acids or bases.

2-BUTOXYETHANOL

Decomposes under the effect of heat.

10.2. Chemical stability

Excessively high temperatures can cause thermal decomposition.

10.3. Possibility of hazardous reactions

See paragraph 10.1.

ETHANOL

Risk of explosion on contact with: alkaline metals, alkaline oxides, calcium hypochlorite, sulphur monofluoride, acetic anhydride, acids, concentrated hydrogen peroxide, perchlorates, perchloric acid, perchloronitrile, mercury nitrate, nitric acid, silver, silver nitrate, ammonia, silver oxide, ammonia, strong oxidising agents, nitrogen dioxide. May react dangerously with: bromoacetylene, chlorine acetylene, bromine trifluoride, chromium trioxide, chromyl chloride, fluorine, potassium tert-butoxide, lithium hydride, phosphorus trioxide, black platinum, zirconium (IV) chloride, zirconium (IV) iodide. Forms explosive mixtures with: air.

ETHANOLAMINE

May react dangerously with acrylonitrile, chloroepoxypropane, chlorosulphuric acid, hydrogen chloride, iron-sulphur compounds, acetic acid, acetic anhydride, mesityl oxide, nitric acid, sulphuric acid, strong acids, vinyl acetate, cellulose nitrate.

2-BUTOXYETHANOL

May react dangerously with aluminium, oxidising agents. Forms peroxides with: air.

10.4. Conditions to avoid

Avoid overheating.

ETHANOL

Avoid exposure to sources of heat, naked flames.

ETHANOLAMINE

Avoid exposure to air, sources of heat.

2-BUTOXYETHANOL

Avoid exposure to sources of heat, naked flames.

10.5. Incompatible materials

Oxidising or reducing agents. Strong acids or bases.

ETHANOLAMINE

Incompatible with iron, strong acids, strong oxidants.

10.6. Hazardous decomposition products

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

ETHANOLAMINE

May develop nitric oxide, carbon oxides.

2-BUTOXYETHANOL

May develop hydrogen.

SECTION 11. Toxicological information

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

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

ATE (Inhalation - mists / powders) of the mixture:	> 5 mg/l
ATE (Inhalation - vapours) of the mixture:	> 20 mg/l
ATE (Inhalation - gas) of the mixture:	0,0 mg/l
ATE (Oral) of the mixture:	>2000 mg/kg
ATE (Dermal) of the mixture:	>2000 mg/kg

ETHANO

LD50 (Dermal):	20000 mg/kg Rabbit
LD50 (Oral):	6300 mg/kg Rabbit
LC50 (Inhalation vapours):	124 mg/l/4h Rat

ISOTRIDECANOL, ETHOXYLATED

LD50 (Dermal):	5960 mg/kg Rabbit - New Zeland white
LD50 (Oral):	> 2000 mg/kg Rat - Wistar
STA (Oral):	500 mg/kg estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)
LC50 (Inhalation vapours):	> 1,6 mg/l Rat - Sprague-Dawley

ETHANOLAMINE

STA (Oral):	500 mg/kg estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)
STA (Dermal):	1100 mg/kg estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)
STA (Inhalation mists/powders):	1,5 mg/l estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)
STA (Inhalation vapours):	11 mg/l estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)

PROPAN-2-OL

LD50 (Dermal):	12800 mg/kg Rat
LD50 (Oral):	4710 mg/kg Rat
LC50 (Inhalation vapours):	72,6 mg/l/4h Rat

POTASSIUM PYROPHOSPHATE

LD50 (Dermal):	> 4640 mg/kg Rabbit
LD50 (Oral):	2000 mg/kg Mouse

2-BUTOXYETHANOL

LD50 (Oral):	1200 mg/kg Guinea pig
LC50 (Inhalation vapours):	3 mg/l/4h Rat

1-(octahydro-2,3,8,8-tetramethyl-2-naphthyl) ethane-1-one

LD50 (Oral):	> 5000 mg/kg
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SKIN CORROSION / IRRITATION

Causes skin irritation

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

RESPIRATORY OR SKIN SENSITISATION

May produce an allergic reaction.

Contains:

1-(octahydro-2,3,8,8-tetramethyl-2-naphthyl) ethane-1-one

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

11.2. Information on other hazards

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

SECTION 12. Ecological information

12.1. Toxicity

ETHANOL

LC50 - for Fish	14200 mg/l/96h Pimephales promelas
EC50 - for Algae / Aquatic Plants	> 100 mg/l/72h Chlorella vulgaris
Chronic NOEC for Crustacea	9,6 mg/l Daphnia magna (h 216)

ISOTRIDECANOL, ETHOXYLATED

LC50 - for Fish	2,5 mg/l/96h Danio rerio
EC50 - for Crustacea	1,5 mg/l/48h Daphnia magna

1-(octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethane-1-one

EC50 - for Algae / Aquatic Plants	> 2,6 mg/l/72h
Chronic NOEC for Algae / Aquatic Plants	> 2,6 mg/l

12.2. Persistence and degradability

ETHANOL

Solubility in water	1000 - 10000 mg/l
Rapidly degradable	

2-BUTOXYETHANOL

Solubility in water	1000 - 10000 mg/l
Rapidly degradable	

ETHANOLAMINE

Solubility in water	1000 - 10000 mg/l
Rapidly degradable	

PROPAN-2-OL

Rapidly degradable

ISOTRIDECANOL, ETHOXYLATED

Solubility in water	20 mg/l
Rapidly degradable	

POTASSIUM PYROPHOSPHATE

Solubility in water	> 10000 mg/l
Degradability: information not available	

12.3. Bioaccumulative potential

ETHANOL

Partition coefficient: n-octanol/water	-0,35
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2-BUTOXYETHANOL

Partition coefficient: n-octanol/water	0,81
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ETHANOLAMINE

Partition coefficient: n-octanol/water	-2,3
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PROPAN-2-OL

Partition coefficient: n-octanol/water	0,05
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ISOTRIDECANOL, ETHOXYLATED

Partition coefficient: n-octanol/water	6,4
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12.4. Mobility in soil

ETHANOLAMINE

Partition coefficient: soil/water	-0,5646
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ISOTRIDECANOL, ETHOXYLATED

Partition coefficient: soil/water	2,645
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12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage $\geq$ than 0,1%.

12.6. Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

12.7. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

14.1. UN number or ID number

not applicable

14.2. UN proper shipping name

not applicable

14.3. Transport hazard class(es)

not applicable

14.4. Packing group

not applicable

14.5. Environmental hazards

not applicable

14.6. Special precautions for user

not applicable

14.7. Maritime transport in bulk according to IMO instruments

Information not relevant

SECTION 15. Regulatory information

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

Seveso Category - Directive 2012/18/EU: None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product

Point 3 - 40

Contained substance

Point	75	2-BUTOXYETHANOL
Point	75	PROPAN-2-OL REACH Reg.: 01-2119457558-25
Point	75	ETHANOLAMINE
Point	75	ETHANOL REACH Reg.: 01-2119457610-43

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors

not applicable

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage $\geq$ than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

Regulation (EC) No. 648/2004

Ingredients according to Regulation (EC) No. 648/2004

15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Flam. Liq. 2	Flammable liquid, category 2
Acute Tox. 4	Acute toxicity, category 4
Skin Corr. 1B	Skin corrosion, category 1B
Eye Dam. 1	Serious eye damage, category 1
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2

STOT SE 3	Specific target organ toxicity - single exposure, category 3
Skin Sens. 1B	Skin sensitization, category 1B
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic toxicity, category 1
H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H332	Harmful if inhaled.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
H317	May cause an allergic skin reaction.
H336	May cause drowsiness or dizziness.
H410	Very toxic to aquatic life with long lasting effects.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
 3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
 4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
 13. Regulation (EU) 2017/776 (X Atp. CLP)
 14. Regulation (EU) 2018/669 (XI Atp. CLP)
 15. Regulation (EU) 2019/521 (XII Atp. CLP)
 16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
 17. Regulation (EU) 2019/1148
 18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
 19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
 20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
 21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
 22. Delegated Regulation (UE) 2022/692 (XVIII Atp. CLP)
- The Merck Index. - 10th Edition
 - Handling Chemical Safety
 - INRS - Fiche Toxicologique (toxicological sheet)
 - Patty - Industrial Hygiene and Toxicology
 - N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
 - IFA GESTIS website
 - ECHA website

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

This Safety Data Sheet was prepared on the basis of the information contained in the SDS (Rev.XX of XX/XX/XXXX) of the supplier of the mixture

Changes to previous review:

The following sections were modified:

02 / 03 / 09 / 11 / 12 / 15.

EN	Ingredient data sheet REGULATION (EC) No 648/2004
IT	Scheda degli ingredienti REGOLAMENTO (CE) N. 648/2004
FR	Fiche d'information sur les composants RÈGLEMENT (CE) No 648/2004
DE	Datenblatt über Inhaltsstoffe VERORDNUNG (EG) Nr. 648/2004
ES	Hoja informativa de ingredientes REGLAMENTO (CE) No 648/2004
PL	Arkusz danych składników ROZPORZĄDZENIE (WE) NR 648/2004
PT	Ficha de informação relativa aos ingredientes REGULAMENTO (CE) N.o 648/2004
NL	Gegevensblad betreffende bestanddelen VERORDENING (EG) Nr. 648/2004

AQUA
ALCOHOL
TRIDECETH-12
ETHANOLAMINE
Parfum
ISOPROPYL ALCOHOL
TETRAPOTASSIUM PYROPHOSPHATE
BUTOXYETHANOL
Fatty acids, C16-18 and C18-unsatd.

Emergency telephone numbers

For urgent safety information call the Anti-Poison Centre of your country:

	COUNTRY	CUSTOMER SERVICE NR.	ANTI-POISON CENTRE NR.
	AUSTRIA	(0043) 050 6700 2111	(0043) 01 406 43 43
	BELGIUM	(0032) 02 263 3333	(0032) 070 245 245
	BULGARIA	(00359) 0700 100 68	(00359) 2 9154 409
	CROATIA	(00385) 0130 40 333	(00385) 1 2348 342
	CZECK REP.	(00420) 840 111 313	(00420) 224 919 293 / +420 224 915 402
	DENEMARK	(0045) 448 802 22	(0045) 8212 1212
	FINLAND	(09) 61336 235	(09) 471977
	FRANCE	(0033) 09 69 39 1234	(0033) 01 4542 5959
	GERMAN	(0049) 0711 93533655	(0049) 0551 19240
	GREECE	(0030) 210 994 6400	(0030) 210 779 3777
	HOLLAND	(0031) 076 5306400	(0031) 030 274 8888
	HUNGARY	(0036) 1 999 5000	(0036) 802 011 99
	IRELAND	(00353) 0844 815 8989	(00353) 1 809 2566 / (00353) 1 837 9964
	ITALY	(0039) 02 20 30	Tel. (+39) 06.6859.3726 - Roma Tel. (+39) 06.4997.8000 - Roma Tel. (+39) 06.305.4343 - Roma Tel. 800.183.459 - Foggia Tel. (+39) 081.545.3333 - Napoli Tel. (+39) 055.794.7819 - Firenze Tel. (+39) 0382.24.444 - Pavia Tel. (+39) 02.66.1010.29 - Milano Tel. 800.88.33.00 - Bergamo Tel. 800.011.858 - Verona
	KAZAKISTAN	(007) 8 800 100 5731	(007) 3272 925 868
	NORWAY	(0047) 227 82580	(0047) 225 913 00
	POLAND	(0048) 801 900 666	(0048) 124 119 999
	PORTUGAL	(00351) 707 203 204	(00351) 808 250 143
	ROMANIAN	(0040) 0372 117 745	(0040) 213 183 606
	RUSSIA	(007) 8 800 3333 887	(007) 343 229 9857 (007) 495 628 1687 (007) 921 757 3228
	SERBIA	(00381) 11 30 65 674	(00381) 11 3608 440
	SLOVAKIA	(00421) 0850 003 007	(00421) 2 5477 4166
	SPAIN	(0034) 902 203 204	(0034) 91 562 0420
	SWEDEN	(0046) 0771 751570	(0046) 010 456 6700; 112 (national callers)
	SWISS	(0041) 0848 801 005	(0041) 44 251 51 51 (dial 145)
	UK	(0044) 0844 815 8989	(0044) 844 892 0111
	UK	(0044) 0844 815 8989	(0044) 844 892 0111
	UCRAIN	(00380) 0 800 30 20 30	(00380) 44 258 4773