

## Odświeżacz powietrza ONE SHOT - BAD MAN

Creation date	24th June 2025	Version	1
Revision date			

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

- 1.1. Product identifier**  
 Substance / mixture: Odświeżacz powietrza ONE SHOT - BAD MAN  
 UFI: mixture  
 NJM0-R020-Q00K-V9PQ  
 Other mixture names: Air Freshener ONE SHOT – BAD MAN
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**  
**Mixture's intended use**  
 Air Freshener.  
**Mixture uses advised against**  
 The product should not be used in ways other than those referred in Section 1.
- 1.3. Details of the supplier of the safety data sheet**  
**Supplier**  
 Name or trade name: FRESHTEK JACEK CHOJNACKI  
 Address: ul.Tomasza Edisona 24, Gdańsk, 80-172  
 Poland  
 Phone: +48 501 621 440  
 E-mail: jacek.freshtek@gmail.com  
**Competent person responsible for the safety data sheet**  
 Name: FRESHTEK JACEK CHOJNACKI  
 E-mail: jacek.freshtek@gmail.com
- 1.4. Emergency telephone number**  
 +48 501621440 (8:30-16:30)  
 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 dangerous.
- Aerosol 1, H222, H229  
 Eye Irrit. 2, H319  
 Aquatic Chronic 3, H412  
**Most serious adverse physico-chemical effects**  
 Pressurised container: May burst if heated. Extremely flammable aerosol.  
**Most serious adverse effects on human health and the environment**  
 Causes serious eye irritation. Harmful to aquatic life with long lasting effects.

**2.2. Label elements**

**Hazard pictogram**



**Signal word**

Danger

**Hazard statements**

H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.

**Precautionary statements**

P102	Keep out of reach of children.
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P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P280	Wear eye protection.
P337+P313	If eye irritation persists: Get medical advice/attention.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C.
P501	Dispose of contents/container to in accordance with local regulations.

**Supplemental information**

**EUH208** Contains 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one, vanillin, coumarin, alpha-isomethyl ionone. May produce an allergic reaction.

**2.3. Other hazards**

Explosive mixtures can form at ambient temperature due to gas-air mixing. Heating a sealed gas in a sealed vessel can lead to an explosion. It is mildly irritating, slightly narcotic and asphyxiating as oxygen is displaced from the surrounding air. Direct contact with liquefied gas can cause frostbite. The endocrine-disrupting properties of the mixture have not been studied. Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended. Does not contain any PMT or vPvM components.

**SECTION 3: Composition/information on ingredients**

**3.2. Mixtures**

**Chemical characterization**

Mixture of substances and additives specified below.

**Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment**

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
Index: 601-004-00-0 CAS: 106-97-8 EC: 203-448-7	butane	58.4-66.74	Flam. Gas 1, H220 Press. Gas (compressed gas), H280	1
Index: 601-003-00-5 CAS: 74-98-6 EC: 200-827-9	propane	16.69-25.03	Flam. Gas 1, H220 Press. Gas (compressed gas), H280 Specific concentration limit: ATE Inhalation (gases) = 425000 ppm	2
Index: 603-002-00-5 CAS: 64-17-5 EC: 200-578-6 Registration number: 01-2119457610-43	ethyl alcohol	11.71-12.07	Flam. Liq. 2, H225 Eye Irrit. 2, H319	
CAS: 88-41-5 EC: 201-828-7	2-tert-butylcyclohexyl acetate	0.1077-1.077	Aquatic Chronic 2, H411	
Index: 606-002-00-3 CAS: 78-93-3 EC: 201-159-0 Registration number: 01-2119457290-43	ethyl methyl ketone	<0.3621	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	3
CAS: 54464-57-2 EC: 259-174-3 Registration number: 01-2119489989-04	1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	0.1077-0.4308	Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	
CAS: 121-33-5 EC: 204-465-2	vanillin	0.04308-0.4308	Skin Sens. 1, H317	
CAS: 91-64-5 EC: 202-086-7 Registration number: 01-2119949300-45	coumarin	0.04308-0.4308	Acute Tox. 4, H302 Skin Sens. 1, H317	

## SAFETY DATA SHEET

legal basis:  
COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to  
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Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
CAS: 127-51-5 EC: 204-846-3	alpha-isomethyl ionone	0.04308-0.1077	Skin Sens. 1, H317 Aquatic Chronic 2, H411	
CAS: 8000-27-9 EC: 616-769-6	oils, cedarwood	0.01077-0.1077	Asp. Tox. 1, H304 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	
Index: 605-019-00-3 CAS: 5392-40-5 EC: 226-394-6 Registration number: 01-2119462829-23	citral	0.004308-0.04308	Skin Irrit. 2, H315 Skin Sens. 1B, H317 Eye Irrit. 2, H319	

#### Notes

- 1 *Note C: Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.*
- 2 *Note U (Table 3): When put on the market gases have to be classified as "Gases under pressure", in one of the groups compressed gas, liquefied gas, refrigerated liquefied gas or dissolved gas. The group depends on the physical state in which the gas is packaged and therefore has to be assigned case by case. The following codes are assigned:*

*Press. Gas (Comp.)*  
*Press. Gas (Liq.)*  
*Press. Gas (Ref. Liq.)*  
*Press. Gas (Diss.)*

*Aerosols shall not be classified as gases under pressure (See Annex I, Part 2, Section 2.3.2.1, Note 2).*

- 3 *A substance for which exposure limits are set.*

Full text of all classifications and hazard statements is given in the section 16.

#### SECTION 4: First aid measures

##### 4.1. Description of first aid measures

If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet.

##### **If inhaled**

Terminate the exposure immediately; move the affected person to fresh air. Protect the person against growing cold. Provide medical treatment if irritation, dyspnoea or other symptoms persist.

##### **If on skin**

Remove contaminated clothes. Wash the affected area with plenty of water, lukewarm if possible.

##### **If in eyes**

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. Rinsing should continue at least for 10 minutes.

##### **If swallowed**

Unlikely.

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

##### **If inhaled**

Not expected.

##### **If on skin**

Not expected.

##### **If in eyes**

When intruding eyes, it can evoke irritation.

##### **If swallowed**

Irritation, nausea.

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

Symptomatic treatment.

**More information**

Other relevant information is not available.

**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

**Suitable extinguishing media**

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

**Unsuitable extinguishing media**

Water jet.

**5.2. Special hazards arising from the substance or mixture**

Danger of bursting (explosion) when heated. 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 firefighters**

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. Closed containers with the product near the fire should be cooled with water. Do not allow run-off of 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**

Provide sufficient ventilation. Extremely flammable aerosol. Pressurised container: May burst if heated. Remove all ignition sources. Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8.

**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**

Stop leak if possible. Dilute vapors (if accumulated) with water spray. Thoroughly ventilate the spill area. Ventilate the room. In the event of leakage of the substantial amount of the product, inform fire brigade and other competent bodies. After removal of the product, wash the contaminated site with plenty of water.

**6.4. Reference to other sections**

See the Section 7, 8 and 13.

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

Prevent formation of gases and vapours in flammable or explosive concentrations and concentrations exceeding the occupational exposure limits. The product should be used only in the areas where it is not in contact with open fire and other ignition sources. Use non-sparking tools. Use of antistatic clothes and footwear is recommended. No smoking. Protect against direct sunlight. Do not pierce or burn, even after use. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection.

**7.2. Conditions for safe storage, including any incompatibilities**

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose. Protect from sunlight. Do not expose to temperatures exceeding 50 °C. Do not store with comburent, self-flammable or self-heating substances, organic peroxides, oxidising agents, pyrophoric solids or liquids and explosives.

**7.3. Specific end use(s)**

Apart from the already mentioned guidelines, it is not necessary to follow any specific recommendations for the use of this product.

**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

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

**European Union**

**Commission Directive 2000/39/EC**

Substance name (component)	Type	Value
ethyl methyl ketone (CAS: 78-93-3)	OEL 8 hours	600 mg/m <sup>3</sup>
	OEL 8 hours	200 ppm

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#### European Union

Commission Directive 2000/39/EC

Substance name (component)	Type	Value
ethyl methyl ketone (CAS: 78-93-3)	OEL 15 minutes	900 mg/m <sup>3</sup>
	OEL 15 minutes	300 ppm

#### DNEL

citra			
Workers / consumers	Route of exposure	Value	Effect
Workers	Inhalation	9 mg/m <sup>3</sup>	Chronic effects systemic

ethyl alcohol			
Workers / consumers	Route of exposure	Value	Effect
Workers (0)	Dermal	343 mg/kg	Chronic effects systemic
Workers (0)	Inhalation	950 mg/m <sup>3</sup>	Chronic effects systemic
Consumers (0)	Oral	87 mg/kg	Chronic effects systemic
Consumers (0)	Dermal	206 mg/kg	Chronic effects systemic
Consumers (0)	Inhalation	114 mg/m <sup>3</sup>	Chronic effects systemic

ethyl methyl ketone			
Workers / consumers	Route of exposure	Value	Effect
Workers	Inhalation	600 mg/m <sup>3</sup>	Chronic effects systemic
Consumers	Inhalation	106 mg/m <sup>3</sup>	Chronic effects systemic
Workers	Dermal	1161 mg/kg bw/day	Chronic effects systemic
Consumers	Dermal	412 mg/kg bw/day	Chronic effects systemic
Consumers	Oral	31 mg/kg bw/day	Chronic effects systemic

#### PNEC

ethyl alcohol	
Route of exposure	Value
Microorganisms in sewage treatment	580 mg/l
Soil (agricultural)	0.63 mg/kg
Water (intermittent release)	2.75 mg/l
Oral	0.38 mg/kg
Drinking water	0.96 mg/l
Marine water	0.79 mg/l
Freshwater sediment	3.6 mg/kg
Sea sediments	2.9 mg/kg

ethyl methyl ketone	
Route of exposure	Value
Drinking water	55.8 mg/l
Marine water	55.8 mg/l
Water (intermittent release)	55.8 mg/l
Microorganisms in sewage treatment	709 mg/l
Freshwater sediment	284.74 mg/kg

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ethyl methyl ketone	
Route of exposure	Value
Sea sediments	284.7 mg/kg
Soil (agricultural)	22.5 mg/kg
Food chain	1000 mg/kg of food

### 8.2. Exposure controls

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/face protection

Protective goggles or face shield (based on the nature of the work performed) according to EN 166.

#### Skin protection

Hand protection: Protective gloves product resistant in accordance with EN ISO 374-1. When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer.

#### Respiratory protection

Halfmask with a filter against organic vapours or a self-contained breathing apparatus as appropriate if exposure limit values of substances are exceeded or in a poorly ventilated environment.

#### Thermal hazard

Flammable product, avoid contact with hot surfaces, sources of fire and high temperatures.

#### Environmental exposure controls

Observe usual measures for 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	data not available
Odour	characteristic
Melting point/freezing point	not determined
Boiling point or initial boiling point and boiling range	not determined
Flammability	extremely flammable aerosol
Lower and upper explosion limit	data not available
Flash point	data not available
Auto-ignition temperature	data not available
Decomposition temperature	not determined
pH	7-8 (undiluted)
Kinematic viscosity	not applicable
Solubility in water	data not available
Partition coefficient n-octanol/water (log value)	not determined
Vapour pressure	data not available
Density and/or relative density	not determined
Relative vapour density	not determined
Particle characteristics	not applicable
Form	aerosol dispenser: spray aerosol

### 9.2. Other information

none

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

When used in the standard way, there is not any dangerous reaction with other substances.

### 10.2. Chemical stability

The product is stable under normal conditions.

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### 10.3. Possibility of hazardous reactions

Contact with sources of ignition makes product set on fire.

### 10.4. Conditions to avoid

The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost. Pressurised container: May burst if heated.

### 10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents. Do not store with comburents, self-flammable or self-heating substances, organic peroxides, oxidising agents, pyrophoric solids or liquids and explosives.

### 10.6. Hazardous decomposition products

Not developed under normal uses. Dangerous outcomes 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 vapors above the occupational exposure limits may result in acute inhalation poisoning, depending on the concentration and duration of exposure. No toxicological effects are expected if occupational exposure limits are not exceeded. It does not meet the criteria for classification as a CMR category 1A or 1B substance, according to point 1.3.1 of Annex I to Regulation (EC) No 1272/2008 (CLP).

#### Acute toxicity

Based on the available data, the criteria for classification of the mixture are not met.

Odświeżacz powietrza ONE SHOT - BAD MAN							
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination
Oral	ATE		116063 mg/kg				Calculation of value

butane							
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination
Inhalation	LC <sub>50</sub>		658 mg/l	4 hours	Rat		Literary studies
Inhalation	LC <sub>50</sub>		276000 ppm	4 hours	Rat		Literary studies

citral							
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination
Dermal	LD <sub>50</sub>		2250 mg/kg		Rabbit		
Oral	LD <sub>50</sub>		6800 mg/kg bw		Rat		
Skin	LD <sub>50</sub>		>2000 mg/kg bw		Rat		

ethyl alcohol							
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination
Oral	LD <sub>50</sub>		6200 mg/kg		Rat		
Dermal	LD <sub>50</sub>		20000 mg/kg		Rabbit		
Inhalation	LC <sub>50</sub>		124.7 mg/l	48 hours	Rat		

ethyl methyl ketone							
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination
Oral	LD <sub>50</sub>		3460 mg/kg		Rat		
Dermal	LD <sub>50</sub>	OECD 402	>5000 mg/kg		Rabbit		
Inhalation (vapor)	LC <sub>50</sub>		>7500 ppm	4 hours	Rat		

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propane							
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination
Inhalation	LC <sub>50</sub>		658 mg/l	4 hours	Rat		
Inhalation (gases)	ATE		425000 ppm				

#### Skin corrosion/irritation

Based on the available data, the criteria for classification of the mixture are not met.

ethyl methyl ketone			
Route of exposure	Result	Exposure time	Species
	Drying and cracking of the skin		

#### Irritation

ethyl alcohol					
Route of exposure	Result	Method	Exposure time	Species	Source
Eye	Irritating	OECD 405	21 days	Rabbit	podrażnienie odwracalne

#### Serious eye damage/irritation

Causes serious eye irritation.

ethyl methyl ketone					
Route of exposure	Result	Method	Exposure time	Species	Source
Eye	Slightly irritating	OECD 405	21 days	Rabbit	

#### Respiratory or skin sensitisation

Based on the available data, the criteria for classification of the mixture are not met.

#### Germ cell mutagenicity

Based on the available data, the criteria for classification of the mixture are not met.

ethyl alcohol						
Result	Method	Exposure time	Specific target organ	Species	Sex	Source
Indeterminate	in vivo			Mouse		Rodzaj badania: Badanie dominujące go genu letalnego (gameta) posób podania dawki: Połknięcie

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**Carcinogenicity**

Based on the available data, the criteria for classification of the mixture are not met.

citral							
Route of exposure	Parameter	Method	Value	Exposure time	Result	Species	Sex
Oral	NOAEL	OECD 453	60 mg/kg bw	2 years	No carcinogenic effect	Mouse	M
Oral	NOAEL (F <sub>1</sub> )	OECD 453	100 mg/kg bw	90 days	No effect		
	NOAEC		34 ppm	90 days		Rat	F

**Reproductive toxicity**

Based on the available data, the criteria for classification of the mixture are not met.

citral							
Effect	Parameter	Value	Exposure time	Specific target organ	Result	Species	Sex
	LOAEC	68 ppm	90 days	Respiratory tract (inhalation)		Rat	F

**Toxicity for specific target organ - single exposure**

Based on the available data, the criteria for classification of the mixture are not met.

ethyl methyl ketone					
Route of exposure	Parameter	Value	Result	Species	Sex
			Drowsiness, Dizziness		

**Toxicity for specific target organ - repeated exposure**

Based on the available data, the criteria for classification of the mixture are not met.

**Repeated dose toxicity**

ethyl alcohol							
Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex
Oral	NOAEL			1280 mg/kg	90 days	Rat	
Oral	LOAEL			3156 mg/kg	90 days	Rat	

ethyl methyl ketone							
Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex
Inhalation (dust/mist)	NOAEL		OECD 413	5014 ppm	90 days	Rat	

**Aspiration hazard**

Based on the available data, the criteria for classification of the mixture are not met.

**11.2. Information on other hazards**
**Endocrine disrupting properties**

Based on the available data, the criteria for classification of the mixture are not met. Does not contain any components that may cause endocrine disruption for humans.

**Other information**

not available

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### SECTION 12: Ecological information

#### 12.1. Toxicity

It is not expected to be harmful to the aquatic environment.

##### Acute toxicity

1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one					
Parameter	Method	Value	Exposure time	Species	Environment
LC <sub>50</sub>		1-10 mg/l	96 hours	Fish	
EC <sub>50</sub>		1-10 mg/l	48 hours	Crustaceans	
EC <sub>50</sub>		1-10 mg/l	72 hours	Algae	

cital					
Parameter	Method	Value	Exposure time	Species	Environment
LC <sub>50</sub>		6.78 mg/l		Fish (Leuciscus idus)	
EC <sub>50</sub>		6.8 mg/l		Crustaceans (Daphnia magna)	
EC <sub>50</sub>		103.8 mg/l		Algae (Desmodesmus subspicatus)	

ethyl alcohol					
Parameter	Method	Value	Exposure time	Species	Environment
LC <sub>50</sub>		11000 mg/l	96 hours	Fish (Alburnus alburnus)	
EC <sub>50</sub>		9268 mg/l	48 hours	Daphnia (Daphnia magna)	
EC <sub>50</sub>		1450 mg/l	192 hours	Algae and other aquatic plants (Microcystis aeruginosa)	
ErC <sub>50</sub>		275 mg/l	72 hours	Algae and other aquatic plants (Chlorella vulgaris)	
EC <sub>10</sub>		11.5 mg/l	72 hours	Algae and other aquatic plants (Chlorella vulgaris)	
EC <sub>50</sub>		6500 mg/l	16 hours	Microorganisms (Pseudomonas putida)	

ethyl methyl ketone					
Parameter	Method	Value	Exposure time	Species	Environment
LC <sub>50</sub>	OECD 203	2993 mg/l	96 hours	Fish (Pimephales promelas)	
EC <sub>50</sub>	OECD 202	308 mg/l	48 hours	Daphnia (Daphnia magna)	
EC <sub>50</sub>	OECD 201	2029 mg/l	96 hours	Algae (Selenastrum capricornutum)	

##### Chronic toxicity

ethyl alcohol					
Parameter	Value	Exposure time	Species	Environment	
NOEC	250 mg/l		Fish (Danio rerio)		
NOEC	2 mg/l		Crustaceans (Ceriodaphnia dubia)		
NOEC	9.6 mg/l	9 days	Aquatic invertebrates (Daphnia magna)		

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#### 12.2. Persistence and degradability

The following data are available.

##### Biodegradability

butane					
Parameter	Method	Value	Exposure time	Environment	Result
					Easily biodegradable

ethyl alcohol					
Parameter	Method	Value	Exposure time	Environment	Result
		89 %	14 days		Easily biodegradable
		89 %	14 days		

ethyl methyl ketone					
Parameter	Method	Value	Exposure time	Environment	Result
	OECD 301D	98 %	28 days		Easily biodegradable

propane					
Parameter	Method	Value	Exposure time	Environment	Result
					Easily biodegradable

#### 12.3. Bioaccumulative potential

The following data are available.

butane	
Parameter	Value
Log Kow	<4

ethyl alcohol	
Parameter	Value
BCF	3
Log Pow	-0.31

ethyl methyl ketone	
Parameter	Value
Log Pow	0.3

propane	
Parameter	Value
Log Pow	2.3

#### 12.4. Mobility in soil

There are no ecotoxicological data available for the product.

butane			
Parameter	Value	Temperature	Source
Napięcie powierzchniowe	<0.10	0°C	N/m

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ethyl alcohol			
Parameter	Value	Temperature	Source
Koc	1		

**12.5. Results of PBT and vPvB assessment**

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

**12.6. Endocrine disrupting properties**

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.

**12.7. Other adverse effects**

Unknown.

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

A container that is free of residual product can be treated as a waste that does not pose a hazard. Do not puncture, cut or weld empty packaging. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not dispose unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

**Waste management legislation**

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

**Waste type code**

16 05 04\* gases in pressure containers (including halons) containing hazardous substances

**Packaging waste type code**

15 01 11\* metallic packaging containing a hazardous solid porous matrix (for example asbestos), including empty pressure containers

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

**SECTION 14: Transport information**

**14.1. UN number or ID number**

UN 1950

**14.2. UN proper shipping name**

AEROSOLS

**14.3. Transport hazard class(es)**

2 Gases

**14.4. Packing group**

not relevant

**14.5. Environmental hazards**

Product is not an environmental hazard according to the criteria of the UN Model Regulations.

**14.6. Special precautions for user**

Reference in the Sections 4 to 8.

**14.7. Maritime transport in bulk according to IMO instruments**

Not applicable - not intended for bulk transportation.

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### Additional information

Hazard identification No.	
UN number	1950
Classification code	5F
Safety signs	2.1



### Road transport - ADR

Limited quantities	1 L
Sign	

Tunnel restriction code	(D)
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### Air transport - ICAO/IATA

Packaging instructions passenger	203
Cargo packaging instructions	203

### Marine transport - IMDG

EmS (emergency plan)	F-D, S-U
MFAG	620

## 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 18th 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, as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL 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 (REACH).

### 15.2. Chemical safety assessment

For mixtures, a chemical safety assessment is not required.

#### More information

Seveso Directive 2012/18/EU (Seveso III): P3a FLAMMABLE AEROSOLS

## SECTION 16: Other information

### A list of standard risk phrases used in the safety data sheet

EUH066	Repeated exposure may cause skin dryness or cracking.
EUH208	Contains 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one, vanillin, coumarin, alpha-isomethyl ionone. May produce an allergic reaction.
H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
H280	Contains gas under pressure; may explode if heated.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.

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H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

**Guidelines for safe handling used in the safety data sheet**

P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P280	Wear eye protection.
P337+P313	If eye irritation persists: Get medical advice/attention.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C.
P501	Dispose of contents/container to in accordance with local regulations.

**Other important information about human health protection**

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the 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**

Acute Tox.	Acute toxicity
ADR	Agreement concerning the international carriage of dangerous goods by road
Aerosol	Aerosol
Aquatic Acute	Hazardous to the aquatic environment
Aquatic Chronic	Hazardous to the aquatic environment (chronic)
Asp. Tox.	Aspiration hazard
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
EC	Identification code for each substance listed in EINECS
EC <sub>10</sub>	Concentration of a substance when it is affected 10 % of the population
EC <sub>50</sub>	Concentration of a substance when it is affected 50 % of the population
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency plan
EU	European Union
EuPCS	European Product Categorisation System
Eye Irrit.	Eye irritation
Flam. Gas	Flammable gas
Flam. Liq.	Flammable liquid
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
LC <sub>50</sub>	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD <sub>50</sub>	Lethal dose of a substance in which it can be expected death of 50% of the population
LOAEC	Lowest observed adverse effect concentration
LOAEL	Lowest observed adverse effect level
log Kow	Octanol-water partition coefficient
NOAEC	No observed adverse effect concentration
NOAEL	No observed adverse effect level

## SAFETY DATA SHEET

legal basis:  
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 (REACH)

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NOEC	No observed effect concentration
OEL	Occupational Exposure Limits
PBT	Persistent, bioaccumulative and toxic
PMT	Persistent, mobile and toxic
ppm	Parts per million
Press. Gas	Gases under pressure
Press. Gas (Comp.)	Gas under pressure: compressed gas
Press. Gas (Diss.)	Gas under pressure: dissolved gas
Press. Gas (Liq.)	Gas under pressure: liquefied gas
Press. Gas (Ref. Liq.)	Gas under pressure: refrigerated liquefied gas
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Agreement on the transport of dangerous goods by rail
Skin Irrit.	Skin irritation
Skin Sens.	Skin sensitization
STOT SE	Specific target organ toxicity - single exposure
UN number	Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very persistent and very bioaccumulative
vPvM	Very persistent and very mobile

#### 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

Uses advised against: Any type of use not listed in this Safety Data Sheet.

#### 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.

#### The changes (which information has been added, deleted or modified)

Version 1.

#### 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.