

#### Safety data sheet According to 1907/2006/EC (REACH), 2015/830/EU

# SPRAY DO NAPEŁNIANIA - PREFILL - SPRAY

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1 Product identifier: SPRAY DO NAPEŁNIANIA - PREFILL - SPRAY

#### **1.2** Relevant identified uses of the substance or mixture and uses advised against:

Relevant uses: Paint in aerosol.

Uses advised against: All uses not specified in this section or in section 7.3

## 1.3 Details of the supplier of the safety data sheet:

Agencja Handlowa "BOLL" Wojciech Dalewski Spółka Jawna ul. Chemiczna 3 65-713 Zielona Góra - Polska Phone.: 68 451 99 99 - Fax: 68 451 99 00 technolog@boll.pl

#### 1.4 Emergency telephone number:

SECTION 2: HAZARDS IDENTIFICATION

# 2.1 Classification of the substance or mixture:

#### CLP Regulation (EC) No 1272/2008:

Classification of this product has been carried out in accordance with CLP Regulation (EC) No 1272/2008.

Aerosol 1: Flammable aerosols, Category 1, H222 Aerosol 1: Pressurised container: May burst if heated., H229 Eye Dam. 1: Serious eye damage, Category 1, H318 Skin Irrit. 2: Skin irritation, Category 2, H315 STOT SE 3: Specific toxicity causing drowsiness and dizziness, single exposure, Category 3, H336

#### 2.2 Label elements:

#### CLP Regulation (EC) No 1272/2008:

Danger



#### Hazard statements:

- H222 Extremely flammable aerosol
- H229 Pressurised container: May burst if heated
- H315 Causes skin irritation
- H318 Causes serious eye damage
- H336 May cause drowsiness or dizziness

## Precautionary statements:

- P101: If medical advice is needed, have product container or label at hand
- 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
- P260: Do not breathe dust/fume/gas/mist/vapours/spray
- P271: Use only outdoors or in a well-ventilated area
- P280: Wear protective gloves/protective clothing/eye protection/face protection
- P302+P352: IF ON SKIN: Wash with plenty of water
- P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P403: Store in a well-ventilated place

P410+P412: Protect from sunlight. Do no expose to temperatures exceeding 50 °C/122°F

P501: Dispose of contents/container in accordance with regulations on hazardous waste or packaging and packaging waste respectively

#### 2.3 Other hazards:

Product fails to meet PBT/vPvB criteria

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Revised: 12/07/2018 Version: 3 (Replaced 2)



## 3.1 Substance:

Non-applicable

## 3.2 Mixture:

**Chemical description:** active ingredient mixture with a propellant. Extruding gas: dimethyl ether

## Components:

In accordance with Annex II of Regulation (EC) No 1907/2006 (point 3), the product contains:

	Identification		Chemical name/Classification	Concentration	
		Dimethyl ether <sup>(1)</sup> ATP CLP00			
EC: 204-065-8 Index: 603-019-00-8 REACH: 01-2119472128-37-XXXX	Regulation 1272/2008	Flam. Gas 1: H220; Press. Gas: H280 - Danger	50 - <75 %		
	67-64-1	Acetone <sup>(1)</sup>	ATP CLP00		
Index:	200-662-2 606-001-00-8 01-2119471330-49-XXXX	Regulation 1272/2008	Eye Irrit. 2: H319; Flam. Liq. 2: H225; STOT SE 3: H336; EUH066 - Danger	25 - <50 %	
		N-butyl acetate <sup>(1)</sup> ATP CLP00			
EC: 204-658-1 Index: 607-025-00-1 REACH: 01-2119485493-29-XXXX	Regulation 1272/2008	Flam. Liq. 3: H226; STOT SE 3: H336; EUH066 - Warning	2,5 - <10 %		
	71-36-3	1-butanol <sup>(1)</sup>	Self-classified		
Index:	200-751-6 603-004-00-6 01-2119484630-38-XXXX	Regulation 1272/2008	Acute Tox. 4: H302; Eye Dam. 1: H318; Flam. Liq. 3: H226; Skin Irrit. 2: H315; STOT SE 3: H335; STOT SE 3: H336 - Danger	2,5 - <10 %	
	111-76-2	2-butoxyethanol <sup>(1)</sup>	ATP CLP00		
Index:	203-905-0 603-014-00-0 01-2119475108-36-XXXX	Regulation 1272/2008	Acute Tox. 4: H302+H312+H332; Eye Irrit. 2: H319; Skin Irrit. 2: H315 - Warning	1 - <2,5 %	

<sup>(1)</sup> Voluntarily-listed substance failing to meet any of the criteria set out in Regulation (EU) No. 2015/830

To obtain more information on the hazards of the substances consult sections 8, 11, 12, 15 and 16.

#### SECTION 4: FIRST AID MEASURES

#### 4.1 Description of first aid measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

## By inhalation:

Remove the person affected from the area of exposure, provide with fresh air and keep at rest. In serious cases such as cardiorespiratory failure, artificial resuscitation techniques will be necessary (mouth to mouth resuscitation, cardiac massage, oxygen supply, etc.) requiring immediate medical assistance.

## By skin contact:

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

## By eye contact:

Rinse eyes thoroughly with water for at least 15 minutes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case removal could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS for the product.

## By ingestion/aspiration:

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

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

Acute and delayed effects are indicated in sections 2 and 11.

## 4.3 Indication of any immediate medical attention and special treatment needed:

# Non-applicable



#### SECTION 5: FIREFIGHTING MEASURES

## 5.1 Extinguishing media:

If possible use polyvalent powder fire extinguishers (ABC powder), alternatively use foam or carbon dioxide extinguishers (CO<sub>2</sub>). IT IS RECOMMENDED NOT to use full jet water as an extinguishing agent.

#### 5.2 Special hazards arising from the substance or mixture:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

#### 5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

#### Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

#### SECTION 6: ACCIDENTAL RELEASE MEASURES

## 6.1 Personal precautions, protective equipment and emergency procedures:

Isolate leaks provided that there is no additional risk for the people performing this task. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Above all prevent the formation of any vapour-air flammable mixtures, through either ventilation or the use of an inert medium. Destroy any source of ignition. Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground.

# 6.2 Environmental precautions:

This product is not classified as hazardous to the environment. Keep product away from drains, surface and ground water.

#### 6.3 Methods and material for containment and cleaning up:

It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

# 6.4 Reference to other sections:

See sections 8 and 13.

#### SECTION 7: HANDLING AND STORAGE

#### 7.1 Precautions for safe handling:

#### A.- Precautions for safe manipulation

Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

B.- Technical recommendations for the prevention of fires and explosions

Avoid the evaporation of the product as it contains flammable substances, which could form flammable vapour/air mixtures in the presence of sources of ignition. Control sources of ignition (mobile phones, sparks,...) and transfer at slow speeds to avoid the creation of electrostatic charges. Avoid splashes and pulverizations. Consult section 10 for conditions and materials that should be avoided.

C.- Technical recommendations to prevent ergonomic and toxicological risks

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

## 7.2 Conditions for safe storage, including any incompatibilities:

#### A.- Technical measures for storage

Minimum Temp.: 5 °C



#### SECTION 7: HANDLING AND STORAGE (continued)

Maximum Temp.: 20 °C

Maximum time: 24 Months

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

## 7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

#### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

# 8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace

Identification	Er	vironmental limits	
Dimethyl ether	IOELV (8h)	1000 ppm	1920 mg/m <sup>3</sup>
CAS: 115-10-6 EC: 204-065-8	IOELV (STEL)		
Acetone	IOELV (8h)	500 ppm	1210 mg/m <sup>3</sup>
CAS: 67-64-1 EC: 200-662-2	IOELV (STEL)		
2-butoxyethanol	IOELV (8h)	20 ppm	98 mg/m <sup>3</sup>
CAS: 111-76-2 EC: 203-905-0	IOELV (STEL)	50 ppm	246 mg/m <sup>3</sup>

## DNEL (Workers):

		Short e	exposure	Long e	xposure
Identification		Systemic	Local	Systemic	Local
Dimethyl ether	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 115-10-6	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 204-065-8	Inhalation	Non-applicable	Non-applicable	1894 mg/m <sup>3</sup>	Non-applicable
Acetone	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 67-64-1	Dermal	Non-applicable	Non-applicable	186 mg/kg	Non-applicable
EC: 200-662-2	Inhalation	Non-applicable	2420 mg/m <sup>3</sup>	1210 mg/m <sup>3</sup>	Non-applicable
N-butyl acetate	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 123-86-4	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 204-658-1	Inhalation	960 mg/m <sup>3</sup>	960 mg/m <sup>3</sup>	480 mg/m <sup>3</sup>	480 mg/m <sup>3</sup>
1-butanol	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 71-36-3	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 200-751-6	Inhalation	Non-applicable	Non-applicable	Non-applicable	310 mg/m <sup>3</sup>
2-butoxyethanol	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 111-76-2	Dermal	89 mg/kg	Non-applicable	75 mg/kg	Non-applicable
EC: 203-905-0	Inhalation	663 mg/m <sup>3</sup>	246 mg/m <sup>3</sup>	98 mg/m <sup>3</sup>	Non-applicable

#### DNEL (General population):

		Short e	exposure	Long e	xposure
Identification		Systemic	Local	Systemic	Local
Dimethyl ether	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 115-10-6	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 204-065-8	Inhalation	Non-applicable	Non-applicable	471 mg/m³	Non-applicable
Acetone	Oral	Non-applicable	Non-applicable	62 mg/kg	Non-applicable
CAS: 67-64-1	Dermal	Non-applicable	Non-applicable	62 mg/kg	Non-applicable
EC: 200-662-2	Inhalation	Non-applicable	Non-applicable	200 mg/m <sup>3</sup>	Non-applicable
N-butyl acetate	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 123-86-4	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 204-658-1	Inhalation	859,7 mg/m <sup>3</sup>	859,7 mg/m <sup>3</sup>	102,34 mg/m <sup>3</sup>	102,34 mg/m <sup>3</sup>



		Short	exposure	Lon	ig exposure
Identification		Systemic	Local	Systemic	Local
1-butanol	Oral	Non-applicable	Non-applicable	3,125 mg/kg	Non-applical
CAS: 71-36-3	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applical
EC: 200-751-6	Inhalation	Non-applicable	Non-applicable	Non-applicable	55 mg/m <sup>3</sup>
2-butoxyethanol	Oral	13,4 mg/kg	Non-applicable	3,2 mg/kg	Non-applica
CAS: 111-76-2	Dermal	44,5 mg/kg	Non-applicable	38 mg/kg	Non-applica
EC: 203-905-0	Inhalation	426 mg/m <sup>3</sup>	123 mg/m <sup>3</sup>	49 mg/m <sup>3</sup>	Non-applica
PNEC:					
Identification					
Dimethyl ether	STP	160 mg/L	Fresh water		0,155 mg/L
CAS: 115-10-6	Soil	0,045 mg/kg	Marine water		0,016 mg/L
EC: 204-065-8	Intermittent	1,549 mg/L	Sediment (Fresh	n water)	0,681 mg/kg
	Oral	Non-applicable	Sediment (Marin	ne water)	0,069 mg/kg
Acetone	STP	100 mg/L	Fresh water		10,6 mg/L
CAS: 67-64-1	Soil	29,5 mg/kg	Marine water		1,06 mg/L
EC: 200-662-2	Intermittent	21 mg/L	Sediment (Fresh	n water)	30,4 mg/kg
	Oral	Non-applicable	Sediment (Marin	ne water)	3,04 mg/kg
N-butyl acetate	STP	35,6 mg/L	Fresh water		0,18 mg/L
CAS: 123-86-4	Soil	0,0903 mg/kg	Marine water		0,018 mg/L
EC: 204-658-1	Intermittent	0,36 mg/L	Sediment (Fresh	n water)	0,981 mg/kg
	Oral	Non-applicable	Sediment (Mari	ne water)	0,0981 mg/kg
1-butanol	STP	2476 mg/L	Fresh water		0,082 mg/L
CAS: 71-36-3	Soil	0,015 mg/kg	Marine water		0,0082 mg/L
EC: 200-751-6	Intermittent	2,25 mg/L	Sediment (Fresh	n water)	0,178 mg/kg
	Oral	Non-applicable	Sediment (Marin	ne water)	0,0178 mg/kg
2-butoxyethanol	STP	463 mg/L	Fresh water		8,8 mg/L
CAS: 111-76-2	Soil	3,13 mg/kg	Marine water		0,88 mg/L
EC: 203-905-0	Intermittent	9,1 mg/L	Sediment (Fresh	n water)	34,6 mg/kg
	Oral	20 g/kg	Sediment (Mari	ne water)	Non-applicable

# 8.2 Exposure controls:

A.- General security and hygiene measures in the work place

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<CE marking>> in accordance with Directive 89/686/EC. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1.

All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

#### B.- Respiratory protection

	Pictogram	PPE	Labelling	CEN Standard	Remarks
	Mandatory respiratory tract protection	Filter mask for gases, vapours and particles		EN 149:2001+A1:2009 EN 405:2001+A1:2009	Replace when an increase in resistence to breathing is observed and/or a smell or taste of the contaminant is detected.
C	Specific protection	n for the hands			
	Pictogram	PPE	Labelling	CEN Standard	Remarks

Fictogram	LL LL	Labelling	CEN Stanuaru	Reffidires
Mandatory hand protection	Protective gloves against minor risks	CATI		Replace gloves in case of any sign of damage. For prolonged periods of exposure to the product for professional users/industrials, we recommend using CE III gloves in line with standards EN 420 and EN 374.



## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

"As the product is a mixture of several substances, the resistance of the glove material can not be predicted in advance with total reliability and has therefore to be checked prior to the application"

# D.- Ocular and facial protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory face protection	Panoramic glasses against splash/projections.		EN 166:2001 EN ISO 4007:2018	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.

# E.- Body protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory complete body protection	Antistatic and fireproof protective clothing		EN 1149-1:2006 EN 1149-2:1997 EN 1149-3:2004 EN 168:2001 EN ISO 14116:2015 EN 1149-5:2018	Limited protection against flames.
Mandatory foot protection	Safety footwear with antistatic and heat resistant properties		EN ISO 13287:2012 EN ISO 20345:2011	Replace boots at any sign of deterioration.

#### F.- Additional emergency measures

Emergency measure	Standards	Emergency measure	Standards
	ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011	<b>0</b> +	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011
Emergency shower		Eyewash stations	

#### **Environmental exposure controls:**

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

# Volatile organic compounds:

With regard to Directive 2010/75/EU, this product has the following characteristics:

V.O.C. (Supply):	100 % weight
V.O.C. density at 20 °C:	722 kg/m³ (722 g/L)
Average carbon number:	3,76
Average molecular weight:	72,32 g/mol

# SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1	Information on basic physical and chemical properties:					
	For complete information see the product datasheet.					
	Appearance:					
	Physical state at 20 °C:	Aerosol				
	Appearance:	Emulsion				
	Colour:	Characteristic				
	Odour:	Characteristic				
	Odour threshold:	Non-applicable *				
	Volatility:					
	Boiling point at atmospheric pressure:	-24 °C (Propellant)				
	Vapour pressure at 20 °C:	520000 Pa				
	*Not relevant due to the nature of the product, not provide	ding information property of its hazards.				



SEC	TION 9: PHYSICAL AND CHEMICAL PROPERT	TIES (continued)
	Vapour pressure at 50 °C:	Non-applicable *
	Evaporation rate at 20 °C:	Non-applicable *
	Product description:	
	Density at 20 °C:	722 kg/m <sup>3</sup>
	Relative density at 20 °C:	0,722
	Dynamic viscosity at 20 °C:	Non-applicable *
	Kinematic viscosity at 20 °C:	Non-applicable *
	Kinematic viscosity at 40 °C:	Non-applicable *
	Concentration:	Non-applicable *
	pH:	Non-applicable *
	Vapour density at 20 °C:	Non-applicable *
	Partition coefficient n-octanol/water 20 °C:	Non-applicable *
	Solubility in water at 20 °C:	Non-applicable *
	Solubility properties:	Insoluble in water
	Decomposition temperature:	Non-applicable *
	Melting point/freezing point:	Non-applicable *
	Recipient pressure:	Non-applicable *
	Explosive properties:	Non-applicable *
	Oxidising properties:	Non-applicable *
	Flammability:	
	Flash Point:	-42 °C (Propellant)
	Flammability (solid, gas):	Non-applicable *
	Autoignition temperature:	Non-applicable *
	Lower flammability limit:	1,1 % Volume
	Upper flammability limit:	18,6 % Volume
	Explosive:	
	Lower explosive limit:	Non-applicable *
	Upper explosive limit:	Non-applicable *
9.2	Other information:	
	Surface tension at 20 °C:	Non-applicable *
	Refraction index:	Non-applicable *
	*Not relevant due to the nature of the product, not providing	information property of its hazards.

# SECTION 10: STABILITY AND REACTIVITY

## 10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

## 10.2 Chemical stability:

Chemically stable under the conditions of storage, handling and use.

## 10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

# **10.4** Conditions to avoid:

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Risk of combustion	Avoid direct impact	Not applicable



SECTION 10: STABILITY AND REACTIVITY (continued)								
10.5 Incompatible materials:								
Г	Acids Water Oxidising materials Combustible materials Others							
Avoid strong acids Not applicable Avoid direct impact Not applicable Avoid alkalis or strong bases								

# 10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO2), carbon monoxide and other organic compounds.

#### SECTION 11: TOXICOLOGICAL INFORMATION

#### **11.1** Information on toxicological effects:

The experimental information related to the toxicological properties of the product itself is not available

Contains glycols. It is recommended not to breathe the vapours for prolonged periods of time due to the possibility of effects that are hazardous to the health .

#### Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

- A- Ingestion (acute effect):
  - Acute toxicity : Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.
  - Corrosivity/Irritability: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.
- B- Inhalation (acute effect):
  - Acute toxicity : Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous for inhalation. For more information see section 3.
  - Corrosivity/Irritability: Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous for inhalation. For more information see section 3.
- C- Contact with the skin and the eyes (acute effect):
  - Contact with the skin: Produces skin inflammation.
  - Contact with the eyes: Produces serious eye damage after contact.
- D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):
  - Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for the effects mentioned. For more information see section 3.
  - IARC: 2-butoxyethanol (3)

- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

- Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- E- Sensitizing effects:
  - Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous with sensitising effects. For more information see section 3.
  - Cutaneous: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- F- Specific target organ toxicity (STOT) single exposure:
  - Exposure in high concentration can interfere with the central nervous system causing headache, dizziness, vertigo, nausea, vomiting, confusion, and in serious cases, loss of consciousness.
- G- Specific target organ toxicity (STOT)-repeated exposure:
  - Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
  - Skin: Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.



#### SECTION 11: TOXICOLOGICAL INFORMATION (continued)

## H- Aspiration hazard:

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

# Other information:

Non-applicable

#### Specific toxicology information on the substances:

	Identification	А	cute toxicity	Genus
Dimethyl ether		LD50 oral	>2000 mg/kg	
CAS: 115-10-6		LD50 dermal	>2000 mg/kg	
EC: 204-065-8		LC50 inhalation	308,5 mg/L (4 h)	Rat
Acetone		LD50 oral	5800 mg/kg	Rat
CAS: 67-64-1		LD50 dermal	7426 mg/kg	Rabbit
EC: 200-662-2		LC50 inhalation	76 mg/L (4 h)	Rat
N-butyl acetate		LD50 oral	12789 mg/kg	Rat
CAS: 123-86-4		LD50 dermal	14112 mg/kg	Rabbit
EC: 204-658-1		LC50 inhalation	23,4 mg/L (4 h)	Rat
1-butanol		LD50 oral	2292 mg/kg	Rat
CAS: 71-36-3		LD50 dermal	3400 mg/kg	Rabbit
EC: 200-751-6		LC50 inhalation	24,66 mg/L (4 h)	Rat
2-butoxyethanol		LD50 oral	1414 mg/kg	Rat
CAS: 111-76-2		LD50 dermal	1060 mg/kg	Rabbit
EC: 203-905-0		LC50 inhalation	11 mg/L (4 h)	Rat

#### SECTION 12: ECOLOGICAL INFORMATION

The experimental information related to the eco-toxicological properties of the product itself is not available

#### 12.1 Toxicity:

Identification		Acute toxicity	Species	Genus	
Acetone	LC50	5540 mg/L (96 h)	Oncorhynchus mykiss	Fish	
CAS: 67-64-1	EC50	23.5 mg/L (48 h)	Daphnia magna	Crustacean	
EC: 200-662-2	EC50	3400 mg/L (48 h)	Chlorella pyrenoidosa	Algae	
N-butyl acetate	LC50	62 mg/L (96 h)	Leuciscus idus	Fish	
CAS: 123-86-4	EC50	73 mg/L (24 h)	Daphnia magna	Crustacean	
EC: 204-658-1	EC50	675 mg/L (72 h)	Scenedesmus subspicatus	Algae	
1-butanol	LC50	1740 mg/L (96 h)	Pimephales promelas	Fish	
CAS: 71-36-3	EC50	1983 mg/L (48 h)	Daphnia magna	Crustacean	
EC: 200-751-6	EC50	500 mg/L (96 h)	Scenedesmus subspicatus	Algae	
2-butoxyethanol	LC50	1490 mg/L (96 h)	Lepomis macrochirus	Fish	
CAS: 111-76-2	EC50	1815 mg/L (48 h)	Daphnia magna	Crustacean	
EC: 203-905-0	EC50	911 mg/L (72 h)	Pseudokirchneriella subcapitata	Algae	

# 12.2 Persistence and degradability:

Identification	De	gradability	Biodegradability		
Acetone	BOD5	Non-applicable	Concentration	100 mg/L	
CAS: 67-64-1	COD	Non-applicable	Period	28 days	
EC: 200-662-2	BOD5/COD	0.96	% Biodegradable	96 %	
N-butyl acetate	BOD5	Non-applicable	Concentration	Non-applicable	
CAS: 123-86-4	COD	Non-applicable	Period	5 days	
EC: 204-658-1	BOD5/COD	0.79	% Biodegradable	84 %	



CA EC 2-t CA	Identification outanol S: 71-36-3		gradability		Bi	iodegradat	oility
CA EC 2-t CA		BOD5	1.71 g O2/g	Cono	entration	<u>j</u>	Non-applicable
EC: 2-b CA		COD	2.46 g O2/g	Perio			19 days
2-b CA	: 200-751-6	BOD5/COD	0.69		odegradable		98 %
CA	putoxyethanol	BOD5	0.71 g O2/g		entration		100 mg/L
	S: 111-76-2	COD	2.2 g O2/g	Perio			14 days
L~	: 203-905-0	BOD5/COD	0.32	_	odegradable		96 %
Biz	baccumulative potential:	0000/000	0.52	70 Bit	Jucyi duabic		90 70
		Identification			Bioac	cumulatio	n potential
Ace	etone			BC	F	1	
CA	S: 67-64-1			Po	w Log	-0.24	
EC	: 200-662-2			Pot	tential	Low	
N-t	putyl acetate	F	4				
	S: 123-86-4		w Log	1.78			
	: 204-658-1				tential	Low	
_	putanol			BC		1	
	S: 71-36-3				.г w Log	0.88	
						Low	
_	: 200-751-6						
	butoxyethanol			BC		3	
	S: 111-76-2				w Log	0.83	
	: 203-905-0			Pot	tential	Low	
Мо	bility in soil:						
	Identification	Abso	orption/desorption			Volat	ility
Dir	nethyl ether	Кос	Non-applicable		Henry		Non-applicable
	S: 115-10-6	Conclusion	Non-applicable		Dry soil		Non-applicable
	: 204-065-8	Surface tension	1,136E-2 N/m (	(25 OC)	Moist soil		Non-applicable
-	etone	Koc	1	(25 0)	Henry		2,93 Pa <sup>-</sup> m <sup>3</sup> /mol
		Conclusion	I Very High				2,93 Parms/moi Yes
	S: 67-64-1		, .	(25.20)	Dry soil		
	: 200-662-2	Surface tension	2,304E-2 N/m (	(25 °C)	Moist soil		Yes
	butyl acetate	Koc	Non-applicable		Henry		Non-applicable
	S: 123-86-4	Conclusion	Non-applicable		Dry soil		Non-applicable
EC	: 204-658-1	Surface tension	2,478E-2 N/m (	(25 ºC)	Moist soil		Non-applicable
1-b	butanol	Кос	2.44		Henry		5,39E-2 Pa·m <sup>3</sup> /mc
CA	S: 71-36-3	Conclusion	Very High		Dry soil		Yes
EC	: 200-751-6	Surface tension	2,567E-2 N/m	(25 °C)	Moist soil		Yes
2-t	outoxyethanol	Кос	8		Henry		1,621E-1 Pa·m³/m
	S: 111-76-2	Conclusion	Very High		Dry soil		No
	: 203-905-0	Surface tension	2,729E-2 N/m (	(25 ºC)	Moist soil		Yes

HP3 Flammable, HP5 Specific Target Organ Toxicity (STOT)/Aspiration Toxicity, HP4 Irritant — skin irritation and eye damage



#### SECTION 13: DISPOSAL CONSIDERATIONS (continued)

## Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. We do not recommended disposal down the drain. See paragraph 6.2.

## **Regulations related to waste management:**

In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

SECTION 14: TRANSPORT INFORMATION

#### Transport of dangerous goods by land:

With regard to ADR 2019 and RID 2019:

inter regard to rib			
	14.1	UN number:	UN1950
	14.2	UN proper shipping name:	AEROSOLS, flammable
	14.3	Transport hazard class(es):	2
		Labels:	2.1
	14.4	Packing group:	N/A
2	14.5	Environmental hazards:	No
•	14.6	Special precautions for user	
		Special regulations:	190, 327, 344, 625
		Tunnel restriction code:	D
		Physico-Chemical properties:	see section 9
		Limited quantities:	1 L
	14.7	Transport in bulk according	Non-applicable
		to Annex II of Marpol and	
		the IBC Code:	
Fransport of dar	ngero	us goods by sea:	
With regard to IMI	DG 38	-16:	
	14.1	UN number:	UN1950
	14.2	UN proper shipping name:	AEROSOLS, flammable
J.	14.3	Transport hazard class(es):	2
		Labels:	2.1
	14.4	Packing group:	N/A
	14.5	Environmental hazards:	No
	14.6	Special precautions for user	
		Special regulations:	190, 277, 327, 344, 63, 959
		EmS Codes:	F-D, S-U
		Physico-Chemical properties:	see section 9
		Limited quantities:	1 L
		Segregation group:	Non-applicable
	14.7	Transport in bulk according	Non-applicable
		to Annex II of Marpol and	
		the IBC Code:	
Transport of dar	ngero	us goods by air:	
With regard to IAT	FA/ICA	O 2019:	



	14.1	UN number:	UN1950
	14.2	UN proper shipping name:	AEROSOLS, flammable
	14.3	Transport hazard class(es):	2
		Labels:	2.1
2	14.4	Packing group:	N/A
•	14.5	Environmental hazards:	No
	14.6	Special precautions for user	
		Physico-Chemical properties:	see section 9
	14.7	Transport in bulk according to Annex II of Marpol and the IBC Code:	Non-applicable

# SECTION 15: REGULATORY INFORMATION

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

Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Non-applicable

Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Non-applicable

Regulation (EC) No 1005/2009, about substances that deplete the ozone layer: Non-applicable

Article 95, REGULATION (EU) No 528/2012: Non-applicable

REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Non-applicable

# Seveso III:

Section	Description	Lower-tier requirements	Upper-tier requirements
P3a		150	500
	the second se	1	

# Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc ....):

Regulation (EU) No 98/2013 of the European Parliament and of the Council of 15 January 2013 on the marketing and use of explosives precursors: Contains Acetone. Product under the provisions of Article 9 Shall not be used in:

—ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,

-tricks and jokes,

-games for one or more participants, or any article intended to be used as such, even with ornamental aspects.

## Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

#### Other legislation:

The product could be affected by sectorial legislation

#### 15.2 Chemical safety assessment:

The supplier has not carried out evaluation of chemical safety.

## SECTION 16: OTHER INFORMATION

# Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (Regulation (EC) No 2015/830)

#### Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks.: Non-applicable

Texts of the legislative phrases mentioned in section 2:



SEC	TION 16: OTHER INFORMATION (continued)
	H222: Extremely flammable aerosol
	H315: Causes skin irritation
	H318: Causes serious eye damage
	H336: May cause drowsiness or dizziness
	H229: Pressurised container: May burst if heated
	Texts of the legislative phrases mentioned in section 3:
	The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3
	CLP Regulation (EC) No 1272/2008:
	Acute Tox. 4: H302 - Harmful if swallowed
	Acute Tox. 4: H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled
	Eye Dam. 1: H318 - Causes serious eye damage
	Eye Irrit. 2: H319 - Causes serious eye irritation
	Flam. Gas 1: H220 - Extremely flammable gas
	Flam. Liq. 2: H225 - Highly flammable liquid and vapour
	Flam. Liq. 3: H226 - Flammable liquid and vapour Press. Gas: H280 - Contains gas under pressure, may explode if heated
	Skin Irrit. 2: H315 - Causes skin irritation
	STOT SE 3: H335 - May cause respiratory irritation
	STOT SE 3: H336 - May cause drowsiness or dizziness
	Classification procedure:
	Aerosol 1: Calculation method
	Skin Irrit. 2: Calculation method
	Eye Dam. 1: Calculation method
	STOT SE 3: Calculation method
	Aerosol 1: Calculation method
	Advice related to training:
	Minimal training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.
	Principal bibliographical sources:
	http://echa.europa.eu
	http://eur-lex.europa.eu
	Abbreviations and acronyms:
	ADR: European agreement concerning the international carriage of dangerous goods by road
	IMDG: International maritime dangerous goods code
	IATA: International Air Transport Association
	ICAO: International Civil Aviation Organisation
	COD: Chemical Oxygen Demand
	BOD5: 5-day biochemical oxygen demand
	BCF: Bioconcentration factor
	LD50: Lethal Dose 50
	LC50: Lethal Concentration 50
	EC50: Effective concentration 50
	Log-POW: Octanol-water partition coefficient Koc: Partition coefficient of organic carbon

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.

- END OF SAFETY DATA SHEET -