

**BUBBLE GUM WAX SHAMPOO**

**SECTION 1. SUBSTANCE/MIXTURE IDENTIFICATION AND MANUFACTURER/SUPPLIER IDENTIFICATION**

**1.1. Product identification:**  
**BUBBLE GUM WAX SHAMPOO**  
**UFI: M5Q0-J019-3001-G935**

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

Identified uses: Highly concentrated and foaming shampoo for manual washing of vehicles. For professional and consumer use.  
PC-CLN-17.1 Cleaning products for external surfaces - all types of vehicles  
Uses advised against: Uses advised against: Each type of use not mentioned above and in section 7.3.

**1.3. Data of the safety data sheet supplier**

**Przedsiębiorstwo RANAL Sp. z o.o.**  
Ul. Łódzka 3  
42-240 Rudniki, PL

Tel.: +48 34 329 45 03  
Fax: +48 34 320 12 16  
Registration number 000029202

Person responsible for the safety data sheet: ranal@ranal.pl

**1.4. Emergency telephone**  
+48 34 329 45 03 (8.00 - 15.00)

**SECTION 2. HAZARDS IDENTIFICATION**

**2.1. Mixture classification**

The classification of this product has been carried out in accordance with Regulation No. 1272/2008 (CLP).  
Aquatic Chronic 3: Hazardous to the aquatic environment - chronic toxicity, category 3, H412 Eye Dam. 1: Serious eye damage/eye irritation, hazard category 1, H318 Skin Irrit. 2: Skin corrosion/irritation, hazard category 2, H315 Skin Sens. 1A: Skin sensitization, hazard category 1A, H317.

**2.2. Label elements**

EC Regulation 1272/2008(CLP): **Danger.**



Hazard statements:

Aquatic Chronic 3: H412 Harmful to aquatic life with long-lasting effects.  
Eye Dam. 1: H318- Causes serious eye damage.  
Skin Irrit. 2: H315 Causes skin irritation.  
Skin Sens. 1A: H317 - May cause an allergic skin reaction.

Precautionary statements:

P102: Keep out of reach of children.  
P264: Wash hands thoroughly after handling.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P302+P352: IF ON SKIN: Wash skin with plenty of water.  
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.  
P310: Immediately call a POISON CENTER or doctor/physician.  
P332+P313: If skin irritation occurs: Get medical advice/attention.  
P501: Dispose of the contents/container to containers in accordance with the regulations on hazardous waste or containers and waste in containers, respectively.

Additional information:

Contains 1,2-benzisothiazol-3(2H)-one, dipentene.

Substances relevant for classification:

Alcohol, C12-14, ethoxylated, sulfate, sodium salts <2.5 EO; Amides, C8-18 and unsaturated C18, N,N-bis hydroxyethyl); 2-methylisothiazol-3(2H)-one.

**2.3 Other hazards:**

The product does not meet the criteria of PBT/vPvB.  
The product does not meet the criteria due to its endocrine-disrupting properties.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

**3.1. Substances**

Not applicable.

**3.2. Mixtures**

Chemical description: A water mixture based on dyes, fragrances and surfactants.

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**Components:**

According to Annex II to Regulation (EC) No. 1907/2006 (point 3), the product contains:

Identification		Chemical Name	Classification	Concentration
CAS: EC: Index no: REACH:	68891-38-3 500-234-8 Not applicable 01-2119488639-16-XXXX	<b>Alcohol, C12-14, ethoxylated, sulfate, sodium salts &lt;2.5 EO<sup>(1)</sup></b>	Aquatic Chronic 3: H412; Eye Dam. 1: H318; Skin Irrit. 2: H315- Danger	15 - <20%
CAS: EC: Index no: REACH:	68155-07-7 268-935-9 Not applicable Not applicable	<b>Amides, C8-18 and unsaturated C18, N,N-bis hydroxyethyl)<sup>(1)</sup></b>	Aquatic Chronic 2: H411; Eye Dam. 1: H318; Skin Irrit. 2: H315- Danger	2.5 - <5%
CAS: EC: Index no: REACH:	15763-76-5 239-854-6 Not applicable 01-2119489411-37-XXXX	<b>Sodium cumenesulfonate<sup>(1)</sup></b>	Eye Irrit. 2: H319 - Warning	1 - <2.5%
CAS: EC: Index no: REACH:	123-92-2 204-662-3 607-130-00-2 01-2119548408-32-XXXX	<b>Isopentyl acetate<sup>(2)</sup></b>	Flam. Liq. 3: H226; EUH066 - Warning ATP CLP00	1 - <2.5%
CAS: EC: Index no: REACH:	138-86-3 205-341-0 601-029-00-7 Not applicable	<b>Dipentene<sup>(1)</sup></b>	Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Flam. Liq. 3: H226; Skin Irrit. 2: H315; Skin Sens. 1: H317- Warning ATP ATP17	0.1-< 0.5%
CAS: EC: Index no: REACH:	141-78-6 205-500-4 607-022-00-5 01-2119475103-46-XXXX	<b>Ethyl acetate<sup>(2)</sup></b>	Eye Irrit. 2: H319; Flam. Liq. 2: H225; STOT SE 3: H336; EUH066- Danger ATP CLP00	0.005-< 0.1%
CAS: EC: Index no: REACH:	2634-33-5 220-120-9 613-088-00-6 01-2120761540-60-XXXX	<b>1.2-benzisothiazol-3(2H)-one<sup>(1)</sup></b>	Acute Tox. 2: H330; Acute Tox. 4: H302; Aquatic Acute 1: H400; Aquatic Chronic 2: H411; Eye Dam. 1: H318; Skin Irrit. 2: H315; Skin Sens. 1: H317- Danger	0.0015 -<0.01%
CAS: EC: Index no: REACH:	2682-20-4 220-239-6 613-326-00-9 01-2120764690-50-XXXX	<b>2-methylisothiazol-3(2H)-one<sup>0</sup></b>	Regulation 1272/2008: Acute Tox. 2: H330; Acute Tox. 3: H301+H311; Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Eye Dam. 1: H318; Skin Corr. 1B: H314; Skin Sens. 1A: H317; EUH071- Danger ATP ATP13	0.0015 -<0.01%

<sup>(1)</sup> The substance poses a risk to health or the environment, meets the criteria set out in Commission Regulation (EU) 2020/878.

<sup>(2)</sup> Substance with the EU workplace exposure limit.

For more information on the hazards caused by the substances see sections 11, 12 and 16.

**Other information:**

2-methylisothiazol-3(2H)-one

CAS: 2682-20-4

EC: 220-239-6

M-factor:

Acute: 10

Chronic: 1

Alcohol, C12-14, ethoxylated, sulfate, sodium salts <2.5 EO 68891-38-3

EC: 500-234-8

Specific concentration limit:

% (m/m) >=10: Eye Dam. 1 - H318

5<= % (m/m) <10: Eye Irrit. 2 - H319

2-methylisothiazol-3(2H)-one

CAS: 2682-20-4

EC: 220-239-6

Specific concentration limit:

% (m/m) >=0.0015: Skin Sens. 1A - H317

**SECTION 4. FIRST AID MEASURES**

**4.1. Description of first aid measures**

Symptoms of poisoning may only occur after exposure, therefore, in case of doubt, direct exposure to a chemical product or prolonged malaise, consult a doctor and show him the MSDS of the product.

**Inhalation:**

The product has not been classified as hazardous in case of inhalation, but despite this, symptoms of poisoning occur, it is recommended to remove the victim from the place of exposure and provide him with access to fresh air and rest. If symptoms persist, call for medical help.

**Contact with skin:**

Take off contaminated clothes and shoes, clean the skin or wash the injured person with natural soap, rinsing thoroughly with cold water. In case of serious disturbances consult a doctor. If the mixture caused burns or frostbite do not remove clothes from the injured, because if the clothes are stuck to the skin, it may cause even more damage. If blisters appear on the skin, do not pierce them as this may increase the risk of infection.

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Contact with eyes:

Rinse the eyes thoroughly with water at room temperature for 15 minutes. If the injured person wears contact lenses, they should be removed unless they are stuck to the eye, otherwise it may cause further injuries. In all cases, after washing, consult a doctor as soon as possible and show him this Material Safety Data Sheet.

Ingestion/aspiration:

Do not induce vomiting, and if this occurs, keep the head tilted forward to prevent aspiration of stomach contents. Provide the injured person with rest. Rinse mouth and throat with water as they have probably been contaminated when swallowed.

**4.2. Most important symptoms both acute and delayed**

Acute and delayed symptoms of exposure are described in sections 2 and 11 of the MSDS.

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

No data.

**SECTION 5. FIREFIGHTING MEASURES**

**5.1. Extinguishing media**

Suitable extinguishing agents: Product containing flammable substances, not flammable under normal conditions of handling, storage and use. In the event of ignition due to improper handling, storage or use, dry powder extinguishers (ABC powder) should preferably be used in accordance with the Regulations on Fire Protection Devices.

Unsuitable extinguishing agents: IT IS NOT RECOMMENDED to use running water as an extinguishing agent.

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

Combustion or thermal decomposition form reaction sub-products which can be highly toxic and in consequence may pose a serious health risk.

**5.3. Advice for fire fighters**

Depending on the extent of the fire, it may be necessary to use complete protective clothing and autonomous breathing equipment. A minimum supply of emergency devices and measures (fire blankets, first aid kit) in accordance with Directive 89/654/EC should be available.

Additional provisions:

Act in accordance with the Internal Emergency Plan and information leaflets describing what to do in the event of accidents and other emergencies. Disable all ignition sources In the event of fire cool the containers used for storing products vulnerable to ignition, explosion or BLEVE explosion due to high temperatures. Do not let products used to extinguish a fire enter the water tank.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

**6.1. Personal precautions, protective equipment and emergency measures**

For persons not being part of the personnel eliminating the effects of the failure: Secure the release of the product, if this activity does not pose a threat to the people who carry it out. Evacuate the site and remove people who do not have the proper protective measures. In the event of possible contact with the spilled product, it is obligatory to use personal protective equipment (see section 8). First of all, the formation of flammable air-vapour mixtures must be prevented, both through ventilation and the use of an inerting agent. Disable all ignition sources Eliminate static electricity by ensuring earthing and bonding all the surfaces that can develop static electricity.

For personnel taking part in emergency procedures: See section 8.

**6.2. Environmental precautions**

The product is classified as hazardous to the environment. Prevent contamination of ground and surface waters, watercourses, soil and sewage system. The absorbed product should be stored in tightly closed containers. Notify relevant authorities in the event of exposure of the general public or the environment.

**6.3. Methods and materials for containment and cleaning up**

It is recommended to:

Absorb the spilled product with sand or or neutral absorbent and transport it to a safe place. Do not use sawdust or other flammable materials to absorb the product. For any product disposal considerations, see section 13.

**6.4. Reference to other sections**

Product waste handling - section 13 of the safety data sheet. Personal protective equipment - section 8 of the safety data sheet.

**SECTION 7. HANDLING AND STORAGE OF SUBSTANCES AND MIXTURES**

**7.1. Precautions for safe handling**

Precautions necessary for safe handling of the product:

Comply with the applicable law regarding the prevention of risks in the workplace. Keep containers tightly closed. Control spills and wastes by using safe disposal methods (section 6). Prevent spontaneous release from containers. Keep order and cleanliness when handling hazardous products.

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Technical recommendations for the prevention of fires and explosions:

Avoid evaporation of the product, as it contains flammable substances, the vapours of which can form easily ignitable mixtures with air in the presence of ignition sources. Control the sources of ignition (cell phones, sparks) and pour the product slowly so as not to lead to the formation of electrostatic charges. Information on conditions and substances to be avoided is provided in section 10.

Technical recommendations to prevent toxicological risks:

Do not eat or drink when handling the product and wash your hands with an appropriate cleaning agent after completing the procedure.

Technical recommendations to prevent environmental risks:

Due to the risk this product poses to the environment, it is recommended to handle it in an area that has contamination control sensors in the event of a spillage, and to store absorbent material nearby.

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

Technical aspects of storage:

Min. temp.: 5°C

Max. temp.: 30°C

Maximum time: 36 months

General conditions of storage:

Avoid sources of heat, radiation and electrostatics. Keep away from food. For more information see section 10.5.

**7.3. Special end uses:**

Apart from the indications already mentioned, it is not necessary to follow any specific recommendations concerning the application of the product.

**SECTION 8. EXPOSURE CONTROL/PERSONAL PROTECTION MEASURES**

**8.1. Control parameters**

Occupational exposure limit values should be controlled for the following substances:

Identification	Limit values of environmental quality standards	
	MPC	MPIC
Propane-2-ol CAS: 67-63-0 EC: 200-661-7	900 mg/m <sup>3</sup>	1200 mg/m <sup>3</sup>
Citral CAS: 5392-40-5 EC: 226-394-6	27 mg/m <sup>3</sup>	54 mg/m <sup>3</sup>
Isopentyl acetate CAS: 123-92-2 EC: 204-662-3	250 mg/m <sup>3</sup>	500 mg/m <sup>3</sup>
Ethyl acetate CAS: 141-78-6 EC: 205-500-4	734 mg/m <sup>3</sup>	1468 mg/m <sup>3</sup>

**DNEL (Workers):**

Identification		Short-time exposure		Long-time exposure	
		Systemic	Local	Systemic	Local
Alcohol, C12-14, ethoxylated, sulfate, sodium salts <2.5 EO CAS: 68891-38-3 EC: 500-234-8	Oral	No data	No data	No data	No data
	Skin	No data	No data	2750 mg/kg	No data
	Inhalation	No data	No data	175 mg/m <sup>3</sup>	No data
Sodium p-cumenesulfonate CAS: 15763-76-5 EC: 239-854-6	Oral	No data	No data	No data	No data
	Skin	No data	No data	136.25 mg/kg	No data
	Inhalation	No data	No data	26.9 mg/m <sup>3</sup>	No data
Ethyl acetate CAS: 141-78-6 EC: 205-500-4	Oral	No data	No data	No data	No data
	Skin	No data	No data	63 mg/kg	No data
	Inhalation	1468 mg/m <sup>3</sup>	1468 mg/m <sup>3</sup>	734 mg/m <sup>3</sup>	734 mg/m <sup>3</sup>
1,2-benzisothiazol-3(2H)-one CAS: 2634-33-5 EC: 220-120-9	Oral	No data	No data	No data	No data
	Skin	No data	No data	0.966 mg/kg	No data
	Inhalation	No data	No data	6.81 mg/m <sup>3</sup>	No data
2-methylisothiazol-3(2H)-one CAS: 2682-20-4 EC: 220-239-6	Oral	No data	No data	No data	No data
	Skin	No data	No data	No data	No data
	Inhalation	No data	0.043 mg/m <sup>3</sup>	No data	0.021 mg/m <sup>3</sup>

**DNEL (Population):**

Identification		Short-time exposure		Long-time exposure	
		Systemic	Local	Systemic	Local
Alcohol, C12-14, ethoxylated, sulfate, sodium salts <2.5 EO CAS: 68891-38-3 EC: 500-234-8	Oral	No data	No data	15 mg/kg	No data
	Skin	No data	No data	1650 mg/kg	No data
	Inhalation	No data	No data	52 mg/m <sup>3</sup>	No data
Sodium p-cumenesulfonate CAS: 15763-76-5 EC: 239-854-6	Oral	No data	No data	3.8 mg/kg	No data
	Skin	No data	No data	68.1 mg/kg	No data
	Inhalation	No data	No data	6.6 mg/m <sup>3</sup>	No data
Ethyl acetate CAS: 141-78-6 EC: 205-500-4	Oral	No data	No data	4.5 mg/kg	No data
	Skin	No data	No data	37 mg/kg	No data
	Inhalation	734 mg/m <sup>3</sup>	734 mg/m <sup>3</sup>	367 mg/m <sup>3</sup>	367 mg/m <sup>3</sup>
1,2-benzisothiazol-3(2H)-one CAS: 2634-33-5 EC: 220-120-9	Oral	No data	No data	No data	No data
	Skin	No data	No data	0.345 mg/kg	No data
	Inhalation	No data	No data	1.2 mg/m <sup>3</sup>	No data
2-methylisothiazol-3(2H)-one CAS: 2682-20-4 EC: 220-239-6	Oral	0.053 mg/kg	No data	0.027 mg/kg	No data
	Skin	No data	No data	No data	No data
	Inhalation	No data	0.043 mg/m <sup>3</sup>	No data	0.021 mg/m <sup>3</sup>

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**PNEC:**

Identification				
Alcohol, C12-14, ethoxylated, sulfate, sodium salts <2.5 EO CAS: 68891-38-3 EC: 500-234-8	Sewage treatment plant	10000 mg/L	Fresh water	0.24 mg/L
	Soil	7.5 mg/kg	Sea water	0.024 mg/L
	Intermittent	0.071 mg/L	Sediment (fresh water)	0.917 mg/kg
	Oral	No data	Sediment (Sea water)	0.092 mg/kg
Sodium p-cumenesulfonate CAS: 15763-76-5 EC: 239-854-6	Sewage treatment plant	100 mg/L	Fresh water	0.23 mg/L
	Soil	0.037 mg/kg	Sea water	0.023 mg/L
	Intermittent	2.3 mg/L	Sediment (fresh water)	0.862 mg/kg
	Oral	No data	Sediment (Sea water)	0.086 mg/kg
Isopentyl acetate CAS: 123-92-2 EC: 204-662-3	Sewage treatment plant	30 mg/L	Fresh water	0.011 mg/L
	Soil	0.06 mg/kg	Sea water	0.001 mg/L
	Intermittent	0.11 mg/L	Sediment (fresh water)	0.335 mg/kg
	Oral	No data	Sediment (Sea water)	0.034 mg/kg
Ethyl acetate CAS: 141-78-6 EC: 205-500-4	Sewage treatment plant	650 mg/L	Fresh water	0.24 mg/L
	Soil	0.148 mg/kg	Sea water	0.024 mg/L
	Intermittent	1.65 mg/L	Sediment (fresh water)	1.15 mg/kg
	Oral	0.2 g/kg	Sediment (Sea water)	0.115 mg/kg
1,2-benzisothiazol-3(2H)-one CAS: 2634-33-5 EC: 220-120-9	Sewage treatment plant	1.03 mg/L	Fresh water	0.00403 mg/L
	Soil	3 mg/kg	Sea water	0.000403 mg/L
	Intermittent	0.0011 mg/L	Sediment (fresh water)	0.0499 mg/kg
	Oral	No data	Sediment (Sea water)	0.00499 mg/kg
2-methylisothiazol-3(2H)-one CAS: 2682-20-4 EC: 220-239-6	Sewage treatment plant	0.23 mg/L	Fresh water	0.00339 mg/L
	Soil	0.047 mg/kg	Sea water	0.00339 mg/L
	Intermittent	0.00339 mg/L	Sediment (fresh water)	No data
	Oral	No data	Sediment (Sea water)	No data

**8.2. Exposure control**

**A. Personal protective measures such as personal protective equipment:**

As a preventive measure, it is recommended to use protective clothing marked with the "CE marking". More information on protective clothing (storage, use, cleaning, maintenance, protection class ...) can be found in the information leaflet provided by the manufacturer of the protective clothing. The directions here are given for the pure product. The instructions for the diluted product may vary according to the dilution ratio, type of use, method of application, etc. When determining the obligation to install emergency showers and / or eyewash devices in the storeroom, the regulations regarding the storage of chemical products will be taken into account.



For more information see sections 7.1 and 7.2.

All the information contained in this section- due to the lack of information on the protective equipment owned by the company- should be treated as a recommendation in order to prevent hazards when working with the product.

**B. Respiratory protection:**



In the event of mist formation or in a situation where the maximum permissible concentration is exceeded, it will be necessary to use respiratory protection.

**C. Special hands protection:**





Pictogram	Protective equipment	Labelling	CEN standards	Note:
 Obligatory hands protection.	Gloves protecting against less serious hazards.			The gloves should be replaced if any signs of damage occur. During periods of prolonged exposure to the product by professional / industrial users, it is recommended to use CE III gloves in accordance with EN 420:2004+A1:2010 and EN ISO 374-1:2016+A1:2018

As the product is made up of different materials, it is not possible to verify the strength of the glove completely reliably in advance and therefore has to be checked before use.



**D. Eye and face protection:**

Pictogram	Protective equipment	Labelling	CEN standards	Note:
 Obligatory face protection.	Panoramic glasses protecting against liquid splashes and/or spatter		EN 166:2002 EN ISO 4007:2018	Clean every day and disinfect regularly according to the manufacturer's instructions. It is recommended to use where there is a risk of liquid splashing.

**E. Body protection:**

Pictogram	Protective equipment	Labelling	CEN standards	Note:
	Workwear			Replace if there are any signs of damage. For prolonged exposure to the product, EC III is recommended for professional/industrial users, in accordance with EN ISO 6529:2013, EN ISO 6530:2005, EN ISO 13688:2013, EN 464:1994
	Non-slip work footwear		EN ISO 20347:2012	Replace if there are any signs of damage. For prolonged exposure to the product, EC III is recommended for professional/industrial users, in accordance with EN ISO 20345:2012 i EN 13832-1:2007

**F. Additional emergency measures:**

Emergency measures	Standards	Emergency measures	Standards
 Emergency shower.	ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011	 Eye rinse device.	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011

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**Environmental control:**

Pursuant to the Community law on environmental protection, it is recommended to prevent the product and its packaging from getting into the environment. For more information see section 7.1.

**Volatile Organic Compounds:**

VOC concentration 20°C: 23.57 g/L

According to the requirements of the applicable law, this product has the following properties:

VOC (content): 2.21% mass

VOC concentration 20°C: 23,01 kg/m<sup>3</sup> (7.58 g/L)

Average number of carbons 6.04

Average molecular weight: 108.67 g/mol

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

**9.1. Information on basic physical and chemical properties**

**Physical aspect:**

Physical state 20°C:

Liquid

Appearance:

Liquid

Colour:

Yellow

Odour:

Characteristic

Odour threshold:

no data\*

**Volatility:**

Boiling point at atmospheric pressure:

100°C

Vapour pressure at 20°C:

no data\*

Vapour pressure at 50°C:

no data\*

Evaporation rate:

no data\*

**Product characteristics:**

Density 20°C:

1020 - 1040 kg/m<sup>3</sup>

Relative density 20°C:

no data\*

Dynamic viscosity 20°C:

no data\*

Kinematic viscosity 20°C:

no data\*

Kinematic viscosity 40°C:

no data\*

Concentration

no data\*

pH:

7.5-9.5 (for 100 % solution)

Vapour density 20°C:

no data\*

n-octanol/water partition coefficient 20°C:

no data\*

Solubility in water 20°C:

no data\*

Degree of solubility:

Easily soluble in water

Breakdown point:

no data\*

Melting /freezing point:

no data\*

**Flammability:**

Flash point:

Not flammable (>60°C)

Flammability (solid, gas):

no data\*

Auto ignition point:

195 °C

Bottom flammability limit:

no data\*

Top flammability limit:

no data\*

**Particles characteristics:**

Median of diameter equivalent:

Not applicable.

**9.2. Other information**

**Information on the physical hazard classes:**

Explosive properties:

no data\*

Oxidizing properties:

no data\*

Substances corrosive to metals:

no data\*

\*There is no information about hazards caused by the product.

Heat of combustion:

no data\*

Aerosols - total percentage (by mass) of flammable components:

no data\*

**Other safety features:**

Surface tension 20°C:

no data\*

Refraction index:

no data\*

\*There is no information about hazards caused by the product.

**SECTION 10. STABILITY AND REACTIVITY**

**10.1. Reactivity**

The product is not reactive in conditions of storage. See section 7.



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**10.2. Chemical stability**

The product is chemically stable conditions of storage and use.

**10.3. Possibility of hazardous reactions**

There are no hazardous reactions if the product is stored as recommended.

**10.4. Conditions to be avoided**

Use an store at room temperature.

Shocks and friction	Contact with air	Heating:	Sunlight:	Humidity:
Not applicable.	Not applicable.	Precautionary measures	Precautionary measures	Not applicable.

**10.5. Incompatible materials**

Acids:	Water:	Oxidants:	Flammable materials:	Other:
Avoid strong acids	Not applicable.	Avoid direct contact	Not applicable.	Avoid strong bases

**10.6. Hazardous decomposition products**

For the details on decomposition products see sections 10.3, 10.4 and 10.5. Depending on the conditions of decomposition, the process may release complex mixtures of chemical substances: carbon dioxide (CO<sub>2</sub>), carbon monoxide and other organic compounds. For more information see section 5.

**SECTION 11. TOXICOLOGICAL INFORMATION**

**11.1. Information on toxicological effects**

There are no experimental data on the toxicological properties of the product.

**Health hazard:**

In case of prolonged exposure or at concentrations higher than the established occupational exposure limits, side effects on health may occur depending on the route of exposure:

**A. Ingestion (acute effects):**

- Acute toxicity: Based on available data, the classification criteria are not met, but the product contains substances classified as hazardous if swallowed. For more information see section 3.
- Caustic/Irritating: Swallowing a significant dose of the product may cause throat irritation, abdominal pain, dizziness and vomiting.

**B. Inhalation (acute effects):**

- Acute toxicity: Based on available data, the classification criteria are not met, but the product contains substances classified as hazardous if inhaled. For more information see section 3.
- Caustic/Irritating: In case of prolonged inhalation, the product has a destructive effect on the tissues of the mucous membranes and the upper respiratory tract.

**C. Contact with skin and eyes (acute effects):**

- Contact with skin: In case of contact it causes dermatitis.
- Contact with eyes: Causes serious damage in contact with eyes.

**D. CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):**

- Carcinogenicity: Based on available data, the classification criteria are not met. The product does not contain substances classified as hazardous due to effects mentioned before. For more information see section 3.
- May cause genetic effects: Based on available data, the classification criteria are not met. The product does not contain substances classified as hazardous. For more information see section 3.
- May cause harmful effect to reproduction: Based on available data, the classification criteria are not met. The product does not contain substances classified as hazardous. For more information see section 3.

**E. Sensitizing effects:**

- Respiratory: Based on available data, the classification criteria are not met. The product does not contain substances classified as hazardous due to their sensitizing effects. For more information see section 3.
- Skin: Prolonged contact of the product with skin may lead to allergic contact dermatitis.

**F. Specific target Organ Toxicity (STOT) time of exposure:**

Based on available data, the classification criteria are not met, but the product contains substances classified as hazardous if inhaled. For more information see section 3.

**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. The product does not contain substances classified as hazardous. For more information see section 3.
- Skin: Based on available data, the classification criteria are not met, but the product contains substances classified as hazardous in case of repeated exposure. For more information see section 3.

**H. Aspiration hazard:**

Based on available data, the classification criteria are not met. The product does not contain substances classified as hazardous. For more information see section 3.

Other information: No data.

Detailed toxicological information on substances:

Identification	Acute toxicity		Type
Sodium p-cumenesulfonate CAS: 15763-76-5 EC: 239-854-6	LD50 oral	7000 mg/kg	Rat
	LD50 skin	No data	
	LC50 inhalation	No data	
Isopentyl acetate CAS: 123-92-2 EC: 204-662-3	LD50 oral	7400 mg/kg	Rat
	LD50 skin	No data	
	LC50 inhalation	No data	

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Ethyl acetate CAS: 141-78-6 EC: 205-500-4	LD50 oral	4100 mg/kg	Rat
	LD50 skin	20000 mg/kg	Rabbit
	LC50 inhalation	No data	
1.2-benzisothiazol-3(2H)-one CAS: 2634-33-5 EC: 220-120-9	LD50 oral	532 mg/kg	Rat
	LD50 skin	No data	
	LC50 inhalation	No data	
2-methylisothiazol-3(2H)-one CAS: 2682-20-4 EC: 220-239-6	LD50 oral	120 mg/kg	Rat
	LD50 dermal	242 mg/kg	Rat
	LC50 inhalation	No data	

Estimated acute toxicity (ATE mix):

ATE mix		Components of unknown toxicity
Oral	>2000 mg/kg (calculation method)	Not applicable.
Skin	>2000 mg/kg (calculation method)	Not applicable.
Inhalation	>20 mg/L (4 h) (calculation method)	Not applicable.

**11.2. Information on other hazards**

Endocrine disrupting properties: The product does not meet the criteria due to its endocrine-disrupting properties.  
Other information: No data.

**SECTION 12. ECOLOGICAL INFORMATION**

There are no experimental data on the ecotoxicological properties of the mixture itself.

**12.1. Toxicity**

Acute toxicity:

Identification	Concentration		Type	Type
	LC50	EC50		
Alcohol, C12-14, ethoxylated, sulfate, sodium salts <2.5 EO CAS: 68891-38-3 EC: 500-234-8	LC50	7.1 mg/L (96 h)	Danio rerio	Fish
	EC50	7.4 mg/L (48 h)	Daphnia magna	Crustacea
	EC50	27 mg/L (72 h)	Scenedesmus subspicatus	Alga
Amides, C8-18 and unsaturated C18, N,N-bis hydroxyethyl) CAS: 68155-07-7 EC: 268-935-9	LC50	>1 - 10 (96 h)		Fish
	EC50	>1 - 10 (48 h)		Crustacea
	EC50	>1 - 10 (72 h)		Alga
sodium p-cumenesulfonate CAS: 15763-76-5 EC: 239-854-6	LC50	1580 mg/L (96 h)	Oncorhynchus mykiss	Fish
	EC50	1020 mg/L (48 h)	Daphnia magna	Crustacea
	EC50	230 mg/L (96 h)	Selenastrum capricornutum	Alga
Isopentyl acetate CAS: 123-92-2 EC: 204-662-3	LC50	No data		
	EC50	42 mg/L (48 h)	Daphnia magna	Crustacea
	EC50	No data		
Dipentene CAS: 138-86-3 EC: 205-341-0	LC50	38.5 mg/L (96 h)	Pimephales promelas	Fish
	EC50	0.7 mg/L (48 h)	Daphnia magna	Crustacea
	EC50	1.6 mg/L (48 h)	Selenastrum capricornutum	Alga
Ethyl acetate CAS: 141-78-6 EC: 205-500-4	LC50	230 mg/L (96 h)	Pimephales promelas	Fish
	EC50	717 mg/L (48 h)	Daphnia magna	Crustacea
	EC50	3300 mg/L (48 h)	Scenedesmus subspicatus	Alga
1.2-benzisothiazol-3(2H)-one CAS: 2634-33-5 EC: 220-120-9	LC50	2.2 mg/L (96 h)	Oncorhynchus mykiss	Fish
	EC50	3 mg/L (48 h)	Daphnia magna	Crustacea
	EC50	0.067 mg/L (72 h)	Pseudokirchneriella subcapitata	Alga
2-methylisothiazol-3(2H)-one CAS: 2682-20-4 EC: 220-239-6	LC50	4.77 mg/L (96 h)	Oncorhynchus mykiss	Fish
	EC50	0.934 mg/L (48 h)	Daphnia magna	Crustacea
	EC50	No data		

Chronic toxicity:

Identification	Concentration		Type	Type
	NOEC	NOEC		
Alcohol, C12-14, ethoxylated, sulfate, sodium salts <2.5 EO CAS: 68891-38-3 EC: 500-234-8	NOEC	0.2 mg/L	Oncorhynchus mykiss	Fish
	NOEC	0.27 mg/L	Daphnia magna	Crustacea
Sodium p-cumenesulfonate CAS: 15763-76-5 EC: 239-854-6	NOEC	No data		
	NOEC	30 mg/L	Daphnia magna	Crustacea
Ethyl acetate CAS: 141-78-6 EC: 205-500-4	NOEC	9.65 mg/L	Pimephales promelas	Fish
	NOEC	2.4 mg/L	Daphnia magna	Crustacea
2-methylisothiazol-3(2H)-one CAS: 2682-20-4 EC: 220-239-6	NOEC	4.93 mg/L	Oncorhynchus mykiss	Fish
	NOEC	0.044 mg/L	Daphnia magna	Crustacea



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**12.2. Persistence and degradability**

Detailed information on the substances:

Identification	Degradability		Biodegradability	
Alcohol, C12-14, ethoxylated, sulfate, sodium salts <2.5 EO CAS: 68891-38-3 EC: 500-234-8	BOD5	No data	Concentration	10.5 mg/L
	COD	No data	Period	28 days
	BOD/COD	No data	% biodegradable	100%
Sodium p-cumenesulfonate CAS: 15763-76-5 EC: 239-854-6	BOD5	No data	Concentration	20 mg/L
	COD	No data	Period	28 days
	BOD/COD	No data	% biodegradable	100%
Dipentene CAS: 138-86-3 EC: 205-341-0	BOD5	No data	Concentration	100 mg/L
	COD	No data	Period	14 days
	BOD/COD	No data	% biodegradable	69%
Ethyl acetate CAS: 141-78-6 EC: 205-500-4	BOD5	1.36 g O2/g	Concentration	100 mg/L
	COD	1.69 g O2/g	Period	14 days
	BOD/COD	0.8	% biodegradable	83%
1,2-benzisothiazol-3(2H)-one CAS: 2634-33-5 EC: 220-120-9	BOD5	No data	Concentration	100 mg/L
	COD	No data	Period	28 days
	BOD/COD	No data	% biodegradable	0%
2-methylisothiazol-3(2H)-one CAS: 2682-20-4 EC: 220-239-6	BOD5	No data	Concentration	10 mg/L
	COD	No data	Period	28 days
	BOD/COD	No data	% biodegradable	55.8%

**12.3. Bioaccumulative potential**

Detailed information on the substances:

Identification	Bioaccumulative potential	
Isopentyl acetate CAS: 123-92-2 EC: 204-662-3	BCF	10
	Log POW	
	Potential	Low
Dipentene CAS: 138-86-3 EC: 205-341-0	BCF	660
	Log POW	4.57
	Potential	High
Ethyl acetate CAS: 141-78-6 EC: 205-500-4	BCF	30
	Log POW	0.73
	Potential	Medium
1,2-benzisothiazol-3(2H)-one CAS: 2634-33-5 EC: 220-120-9	BCF	2
	Log POW	1.45
	Potential	Low
2-methylisothiazol-3(2H)-one CAS: 2682-20-4 EC: 220-239-6	BCF	
	Log POW	-0.49
	Potential	

**12.4. Mobility in soil**

Identification	Absorption/desorption		Variability	
Isopentyl acetate CAS: 123-92-2 EC: 204-662-3	Koc	70	Henry's constant	59.78 Pa·m <sup>3</sup> /mol
	Conclusions	Very high	Dry soil	No data
	Surface tension	2.388E-2 N/m (25 °C)	Of wet soil	Yes
Dipentene CAS: 138-86-3 EC: 205-341-0	Koc	1300	Henry's constant	3242.4 Pa·m <sup>3</sup> /mol
	Conclusions	Low	Dry soil	Yes
	Surface tension	No data	Of wet soil	Yes
Ethyl acetate CAS: 141-78-6 EC: 205-500-4	Koc	59	Henry's constant	13.58 Pa·m <sup>3</sup> /mol
	Conclusions	Very high	Dry soil	Yes
	Surface tension	2.324E-2 N/m (25 °C)	Of wet soil	Yes
2-methylisothiazol-3(2H)-one CAS: 2682-20-4 EC: 220-239-6	Koc	No data	Henry's constant	0E+0 Pa·m <sup>3</sup> /mol
	Conclusions	No data	Of dry soil	No data
	Surface tension	No data	Of wet soil	No data

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

The product does not meet the criteria of PBT/vPvB.

**12.6. Other hazardous effects**

The product does not meet the criteria due to its endocrine-disrupting properties.

**12.7 Other hazardous effects**

No data.

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**SECTION 13. DISPOSAL CONSIDERATIONS**

**13.1. Waste treatment methods**

Code	Description	Waste type (Commission Regulation (EU) no 1357/2014)
20 01 29*	Detergents containing hazardous substances	Dangerous.

**Waste type (Commission Regulation (EU) no 1357/2014):**

HP14 Ecotoxic, HP4 Irritating - causing skin irritation and eye damage.

**Waste administration (disposal and assessment):**

It should be handed over to a specialized disposal company authorized to assess and remove waste in accordance with Annex 1 and Annex 2 (Directive 2008/98 / EC of the European Parliament and of the Council). According to the code 15 01 (2014/955 / EU), when the container is in direct contact with the product, it should be handled in the same way as the product. Otherwise, it should be treated as non-hazardous waste. It is not recommended to discharge it into water courses. See section 6.2.

**Waste administration provisions:**

Pursuant to Annex II of Regulation (EC) No. 1907/2006 (REACH), Community or national provisions related to waste management have been adopted.

Community law:

Directive 2008/98/EC, 2014/955/EU, Commission Regulation (EU) no 1357/2014

Act of June 13, 2013 on the management of packagings and packaging waste (i.e. Journal of Laws of 2021, item 1114, as amended).

Act of December 14, 2012 on waste (ie Journal of Laws of 2021, item 779).

**SECTION 14. TRANSPORT INFORMATION**

**Ground transport of dangerous goods:**

According to the requirements of ADR 2021 and RID 2021:

**14.1. UN number:**

No data.

**14.2. UN proper shipping name**

No data.

**14.3. Transport hazard class**

No data.

**14.4. Packaging group**

No data.

**14.5. Environmental hazards**

No.

**14.6. Special precautions for users**

Special regulations: no data.

Tunnel restriction code: no data.

Physical and chemical properties: see section 9

Limited Quantities: no data.

**14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code**

No data.

**Sea transport of dangerous goods:**

According to IMDG 39-18:

**14.1. UN number or ID number**

No data.

**14.2. UN proper shipping name**

No data.

**14.3. Transport hazard class**

No data.

**14.4. Packaging group**

No data.

**14.5. Marine pollutant:**

No.

**14.6. Special precautions for users**

Special regulations: no data.

EmS code:

Physical and chemical properties: see section 9

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Limited Quantities: no data.  
Segregation group: no data.

**14.7. Sea transport in bulk in accordance with IMO instruments**

No data.

**Air transport of dangerous goods:**

According to the requirements of IATA/ ICAO 2021:

**14.1 UN number or ID number**

No data.

**14.2. UN proper shipping name**

No data.

**14.3. Transport hazard class**

No data.

**14.4. Packaging group**

No data.

**14.5. Environmental hazards**

Marine pollutant: No.

**14.6. Special precautions for users**

Physical and chemical properties: see section 9

**14.7. Air transport in bulk in accordance with IMO instruments**

No data.

**SECTION 15. REGULATORY INFORMATION**

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

Regulation (EC) No 528/2012: contains preservatives to protect the original properties of the treated products. Contains 1,2-benzisothiazol-3(2H)-one, 2-methylisothiazol-3(2H)-one.

Substances candidating to authorization pursuant to EC Regulation 1907/2006(REACH): No data.

Substances present in Annex XIV of REACH (authorization list) and expiry date: No data.

Regulation (EC) No 1005/2009 on substances depleting the ozone layer: No data.

Article 95, REGULATION (EU) NO 528/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL: 1,2-benzisothiazol-3(2H)-one (Group 2, 6, 9, 11, 12, 13); 2-Methylisothiazol-3(2H)-one (Group 6, 11, 12, 13).

REGULATION (EU) No 649/2012 concerning the export and import of dangerous chemicals: No data.

**Regulation (EC) No. 648/2004 on detergents as amended:**

According to this regulation the product meets the following criteria:

The surfactants contained in this mixture meet the biodegradability criterion of Regulation (EC) No. 648/2004 on detergents. Data that confirm this statement are at the disposal of the relevant authorities of the Member States and will be made available to them at the direct request or at the request of the manufacturer of cleaning products.

**Content Labelling:**

Component	Concentration range
Anionic surfactants	15 ≤ % (m/m) < 30
Non-ionic surfactants	% (m/m) < 5
Fragrances	

Preservatives: 1,2-benzisothiazol-3(2H)-one (BENZISOTHIAZOLINONE), 2-methylisothiazol-3(2H)-one (METHYLISOTHIAZOLINONE).

**Seveso III:**

No data.

**Restrictions on the sale and use of certain hazardous substances and mixtures (Annex XVII of REACH, etc ...):**

They cannot be used in

- decorative articles intended to produce light or color effects by means of different phases, e.g. in decorative lamps and ashtrays,
- tricks and jokes,
- games intended for one or more participants, or articles intended to be used as such, even for decorative purposes.

**Specific provisions for the protection of people or the environment:**

It is recommended to use the information collected in this safety data sheet as a preliminary data to assess the local risk in order to take the necessary steps to prevent the risks associated with the handling, use, storage and disposal of this product.

**Other regulations:**

- Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/ 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.

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- Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 as amended.
- Commission Directive 2000/39/EC of 8 June 2000 establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.
- Commission Directive 2006/15/EC of 7 February 2006 establishing a second list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC
- Commission Directive 2009/161/EU of 17 December 2009 establishing a third list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Commission Directive 2000/39/EC.
- Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors, amending Regulation (EC) No 1907/2006 and repealing Regulation (EU) No 98/20013.
- Government Statement of February 18, 2019 on the entry into force of amendments to Annexes A and B of the European Agreement on the International Carriage of Dangerous Goods by Road (ADR), drawn up in Geneva on September 30, 1957. (Journal of Laws of 2019, item 769).
- Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents.
- Commission Regulation (EC) No 907/2006 of 20 June 2006 amending Regulation (EC) No 648/2004 of the European Parliament and of the Council on detergents, in order to adapt Annexes III and VII thereto.
- Commission Regulation (EC) No 551/2009 of 25 June 2009 amending Regulation (EC) No 648/2004 of the European Parliament and of the Council on detergents, in order to adapt Annexes V and VI thereto (surfactant derogation).
- Regulation (EC) No 1336/2008 of the European Parliament and of the Council of 16 December 2008 amending Regulation (EC) No 648/2004 to adapt it to Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (Official Journal EU L 354 of December 31 2008)

**15.2. Chemical safety assessment**

Chemical safety assessment has not been performed.

**SECTION 16. OTHER INFORMATION**

**Provisions regarding the Safety Data Sheets:**

This Safety Data Sheet was created in accordance with ANNEX II - Guidance for persons compiling Safety Data Sheets to Regulation (EC) No. 1907/2006 (COMMISSION REGULATION (EU) 2020/878).

**Changes compared to the previous safety data sheet affecting risk management:**

N/A

**Texts of the regulation mentioned in section 2:**

H315: Causes skin irritation.

H318: Causes serious eye damage.

H412: Harmful to aquatic life with long-lasting effects.

H317: May cause an allergic skin reaction.

**Texts of the regulation mentioned in section 3:**

These phrases do not refer to the product itself, they are for informational purposes only and refer to individual components mentioned in section 3 of the MSDS.

**EC Regulation 1272/2008(CLP):**

Acute Tox. 2: H330 - Fatal if inhaled.

Acute Tox. 3: H301+ H311 - Toxic if swallowed or in contact with skin.

Acute Tox. 4: H302 Harmful if swallowed.

Aquatic Acute 1: H400 Very toxic to aquatic life.

Aquatic Chronic 1: H410 Very toxic to aquatic life with long-lasting effects.

Aquatic Chronic 2: H411 Toxic to aquatic life with long-lasting effects.

Aquatic Chronic 3: H412 Harmful to aquatic life with long-lasting effects.

Eye Dam. 1: H318 - Causes serious eye damage.

Eye Irrit. 2: H319 Causes eye irritation.

Flam. Liq. 2: H225 Highly flammable liquid and vapour.

Flam. Liq. 3: H226- Flammable liquid and vapour.

Skin Corr. 1B: H314 - Causes serious skin burns and eye damage.

Skin Irrit. 2: H315 Causes skin irritation.

Skin Sens. 1: H317 - May cause an allergic skin reaction.

Skin Sens. 1A: H317 - May cause an allergic skin reaction.

STOT SE 3: H336 May cause drowsiness or dizziness.

**Classification process:**

Skin Irrit. 2: Calculation method

Eye Dam. 1: Calculation method Aquatic Chronic 3, Calculation method Skin Sens. 1A: Calculation method

**Advice on staff training:**

It is recommended that personnel who will handle this product receive basic safety training to help understand and interpret the MSDS and product label.

**Main sources of literature:**

<http://echa.europa.eu>

<http://eur-lex.europa.eu>

**Abbreviations used in the text:**

Supp.Class.: Supplier Classification

ADR: International Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

COD Chemical oxygen demand (COD).

BOD: Biochemical oxygen demand (BOD) within 5 days.

BCF: bioconcentration factor

Log POW: log POW: octanol/water partition coefficient.

NDS: maximum permissible concentration.

NDSCh: maximum Permissible Instantaneous Concentration.

EC50:effective concentration (the concentration of the component at which 50% of the organisms show an effect within a specified time)

LD50: medial lethal dose.

LC50: medial lethal concentration.

EC50: medial effective concentration.

PBT: the ability of toxic substances to bioaccumulate

vPvB: very high ability of toxic substances to bioaccumulate

IWO: personal protective measures

STP: sewage treatment plant.

Henry: the solubility of a given component in a solution depending on the partial pressure of that component above the solution

EC: EINECS and ELINCS number (see also EINECS and ELINCS) EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European Inventory of Notified Chemical Substances

CEN: European Committee for Standardization

STOT: Specific Target Organ Toxicity

Koc: the partition coefficient normalized to the content of organic carbon, determines the degree of absorption of organic substances in the soil

DNEL: derived no-effect level

PNEC:predicted no-effect concentration

BDO: registration number from the Waste Database

UFI: unique identifier of the active form

IARC: International Agency for Research on Cancer

The information contained in the MSDS results from the current state of knowledge and experience in product handling. Data on this product is presented in order to comply with safety requirements, not to guarantee its specific properties.

The employer is obliged to inform all workers who have contact with the product about the hazards and personal protection measures specified in this Material Safety Data Sheet.

This Material Safety Data Sheet has been developed on the basis of the Material Safety Data Sheets of the components provided by the manufacturers, conducted research as well as the applicable regulations on hazardous substances and chemical preparations.

Before they start working with the product, the users should learn the Health and Safety regulations regarding handling chemicals, and in particular, undergo appropriate workplace training.

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