


**UTWARDZACZ DO SZPACHLÓWKI NATRYSKOWEJ - HARDENER FOR SPRAY PUTTY****SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

- 1.1 Product identifier:** UTWARDZACZ DO SZPACHLÓWKI NATRYSKOWEJ - HARDENER FOR SPRAY PUTTY
Other means of identification:
UFI: WS00-H01K-Y000-SY2M
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**
Relevant uses: Initiator of polymerization of unsaturated polyester resins.
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:**
BOLL Wojciech Dalewski Spółka Jawna
ul. Chemiczna 3
65-713 Zielona Góra - Polska
Phone: 68 451 99 99 - Fax: 68 451 99 00
huszcza@boll.pl
<https://www.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.
Eye Dam. 1: Serious eye damage, Category 1, H318
Flam. Liq. 2: Flammable liquids, Category 2, H225
Org. Perox. D: Organic peroxides, Category D, H242
Skin Corr. 1B: Skin corrosion, Category 1B, H314
STOT SE 3: Respiratory tract toxicity, single exposure, Category 3, H335
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:**
Flam. Liq. 2: H225 - Highly flammable liquid and vapour.
Org. Perox. D: H242 - Heating may cause a fire.
Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.
STOT SE 3: H335 - May cause respiratory irritation.
STOT SE 3: H336 - May cause drowsiness or dizziness.
- Precautionary statements:**
P102: Keep out of reach of children.
P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280: Wear protective gloves/face protection/protective clothing/respiratory protection/protective footwear.
P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
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.
- Supplementary information:**
EUH066: Repeated exposure may cause skin dryness or cracking.
- UFI:** WS00-H01K-Y000-SY2M
The product packaging must include: child-resistant fastenings, tactile warning.
- 2.3 Other hazards:**

- CONTINUED ON NEXT PAGE -



Safety data sheet

This SDS is an English translation of COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation

UTWARDZACZ DO SZPACHLÓWKI NATRYSKOWEJ - HARDENER FOR SPRAY PUTTY

SECTION 2: HAZARDS IDENTIFICATION (continued)

Product does not meet PBT/vPvB criteria
Endocrine-disrupting properties: The product does not meet the criteria.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance:

Non-applicable

3.2 Mixture:

Chemical description: A solution containing 16% of cyclohexanone peroxides in dimethyl phthalate, diacetone alcohol and ethyl acetate.

Components:

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

Identification	Chemical name/Classification	Concentration
CAS: 141-78-6 EC: 205-500-4 Index: 607-022-00-5 REACH: 01-2119475103-46-XXXX	Ethyl acetate⁽¹⁾ ATP CLP00	25 - <35 %
	Regulation 1272/2008 Eye Irrit. 2: H319; Flam. Liq. 2: H225; STOT SE 3: H336; EUH066 - Danger	
CAS: 123-42-2 EC: 204-626-7 Index: 603-016-00-1 REACH: 01-2119473975-21-XXXX	4-hydroxy-4-methylpentan-2-one⁽¹⁾ ATP CLP00	25 - <35 %
	Regulation 1272/2008 Eye Irrit. 2: H319 - Warning	
CAS: 131-11-3 EC: 205-011-6 Index: Non-applicable REACH: 01-2119437229-36-XXXX	Dimethyl Phthalate⁽²⁾ Not classified	20 - <30 %
	Regulation 1272/2008	
CAS: 12262-58-7 EC: 235-527-7 Index: 617-010-01-9 REACH: 01-2120762253-58-XXXX	Cyclohexanone, peroxide⁽¹⁾ ATP ATP01	10 - <25 %
	Regulation 1272/2008 Acute Tox. 4: H302; Org. Perox. C: H242; Skin Corr. 1B: H314 - Danger	

⁽¹⁾ Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2020/878

⁽²⁾ Voluntarily-listed substance failing to meet any of the criteria set out in Regulation (EU) No. 2020/878

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

Other information:

Identification	Specific concentration limit
4-hydroxy-4-methylpentan-2-one CAS: 123-42-2 EC: 204-626-7	% (w/w) >=10: Eye Irrit. 2 - H319
Cyclohexanone, peroxide CAS: 12262-58-7 EC: 235-527-7	% (w/w) >=5: STOT SE 3 - H335

Acute toxicity estimate for the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or as determined in accordance with Annex I to that Regulation:

Identification	Acute toxicity		Genus
Cyclohexanone, peroxide CAS: 12262-58-7 EC: 235-527-7	LD50 oral	500 mg/kg	Rat
	LD50 dermal	Not relevant	
	LC50 inhalation	Not relevant	

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

Request medical assistance immediately, showing the SDS of this product.

By inhalation:

- CONTINUED ON NEXT PAGE -

**UTWARDZACZ DO SZPACHLÓWKI NATRYSKOWEJ - HARDENER FOR SPRAY PUTTY****SECTION 4: FIRST AID MEASURES (continued)**

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 lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

By ingestion/aspiration:

Request immediate medical assistance, showing the SDS of this product. Do not induce vomiting, because its expulsion from the stomach can be hazardous to the mucus of the main digestive tract, and also risk damage to the respiratory system through inhalation. Rinse out the mouth and throat, as they may have been affected during ingestion. In the case of loss of consciousness do not administer anything orally unless supervised by a doctor. Keep the person affected at rest.

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:

Not available

SECTION 5: FIREFIGHTING MEASURES**5.1 Extinguishing media:****Suitable extinguishing media:**

Foam extinguisher (AB), Dry Chemical Powder (ABC) Fire Extinguisher, Carbon dioxide extinguisher (BC)

Unsuitable extinguishing media:

Water jet

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:****For non-emergency personnel:**

HEATING MAY CAUSE A FIRE. 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 spill 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.

For emergency responders:

- CONTINUED ON NEXT PAGE -

**UTWARDZACZ DO SZPACHLÓWKI NATRYSKOWEJ - HARDENER FOR SPRAY PUTTY****SECTION 6: ACCIDENTAL RELEASE MEASURES (continued)**

Wear protective equipment. Keep unprotected persons away. See section 8.

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.- General precautions for safe use

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 ANY KIND OF HEATING. Devices and systems must comply with the essential safety and health requirements and, with the minimum requirements for improving the health and safety protection of workers. Consult section 10 for conditions and materials that should be avoided. KEEP ONLY IN ORIGINAL CONTAINER.

C.- Technical recommendations on general occupational hygiene

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.: 10 °C

Maximum Temp.: 20 °C

Maximum time: 12 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 (European OEL, not country-specific legislation):

Directive (EU) 2000/39, Directive 2004/37/EC, Directive (EU) 2006/15, Directive (EU) 2009/161, Directive (EU) 2017/164, Directive (EU) 2019/1831:

Identification	Occupational exposure limits		
	IOELV (8h)	200 ppm	734 mg/m ³
Ethyl acetate CAS: 141-78-6 EC: 205-500-4	IOELV (STEL)	400 ppm	1468 mg/m ³

DNEL (Workers):

- CONTINUED ON NEXT PAGE -



Safety data sheet

This SDS is an English translation of COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation

UTWARDZACZ DO SZPACHLÓWKI NATRYSKOWEJ - HARDENER FOR SPRAY PUTTY

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Ethyl acetate CAS: 141-78-6 EC: 205-500-4	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	63 mg/kg	Not relevant
	Inhalation	1468 mg/m ³	1468 mg/m ³	734 mg/m ³	734 mg/m ³
4-hydroxy-4-methylpentan-2-one CAS: 123-42-2 EC: 204-626-7	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	467 mg/kg	Not relevant
	Inhalation	Not relevant	240 mg/m ³	32,6 mg/m ³	Not relevant
Dimethyl Phthalate CAS: 131-11-3 EC: 205-011-6	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	135 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	66,1 mg/m ³	Not relevant
Cyclohexanone, peroxide CAS: 12262-58-7 EC: 235-527-7	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	1 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	3,53 mg/m ³	Not relevant

DNEL (General population):

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Ethyl acetate CAS: 141-78-6 EC: 205-500-4	Oral	Not relevant	Not relevant	4,5 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	37 mg/kg	Not relevant
	Inhalation	734 mg/m ³	734 mg/m ³	367 mg/m ³	367 mg/m ³
4-hydroxy-4-methylpentan-2-one CAS: 123-42-2 EC: 204-626-7	Oral	Not relevant	Not relevant	1,67 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	33 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	5,8 mg/m ³	Not relevant
Dimethyl Phthalate CAS: 131-11-3 EC: 205-011-6	Oral	Not relevant	Not relevant	9,4 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	67,5 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	16,3 mg/m ³	Not relevant
Cyclohexanone, peroxide CAS: 12262-58-7 EC: 235-527-7	Oral	Not relevant	Not relevant	0,5 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	0,5 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	0,87 mg/m ³	Not relevant

PNEC:

Identification					
Ethyl acetate CAS: 141-78-6 EC: 205-500-4	STP	650 mg/L	Fresh water	0,24 mg/L	
	Soil	0,148 mg/kg	Marine water	0,024 mg/L	
	Intermittent	1,65 mg/L	Sediment (Fresh water)	1,15 mg/kg	
	Oral	0,2 g/kg	Sediment (Marine water)	0,115 mg/kg	
4-hydroxy-4-methylpentan-2-one CAS: 123-42-2 EC: 204-626-7	STP	100 mg/L	Fresh water	2 mg/L	
	Soil	0,3 mg/kg	Marine water	0,2 mg/L	
	Intermittent	1 mg/L	Sediment (Fresh water)	7,4 mg/kg	
	Oral	Not relevant	Sediment (Marine water)	0,74 mg/kg	
Dimethyl Phthalate CAS: 131-11-3 EC: 205-011-6	STP	4 mg/L	Fresh water	0,192 mg/L	
	Soil	3,16 mg/kg	Marine water	0,019 mg/L	
	Intermittent	0,39 mg/L	Sediment (Fresh water)	1,3 mg/kg	
	Oral	Not relevant	Sediment (Marine water)	0,13 mg/kg	
Cyclohexanone, peroxide CAS: 12262-58-7 EC: 235-527-7	STP	0,05 mg/L	Fresh water	0,011 mg/L	
	Soil	0,011 mg/kg	Marine water	0,00106 mg/L	
	Intermittent	0,017 mg/L	Sediment (Fresh water)	0,085 mg/kg	
	Oral	Not relevant	Sediment (Marine water)	0,009 mg/kg	

8.2 Exposure controls:

A.- Individual protection measures, such as personal protective equipment



- CONTINUED ON NEXT PAGE -

UTWARDZACZ DO SZPACHLÓWKI NATRYSKOWEJ - HARDENER FOR SPRAY PUTTY



SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<CE marking>> in accordance with Regulation (EU) 2016/425. 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 and vapours	 CAT III	EN 405:2002+A1:2010	Replace when there is a taste or smell of the contaminant inside the face mask. If the contaminant comes with warnings it is recommended to use isolation equipment.

C.- Specific protection for the hands





Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory hand protection	Chemical protective gloves (Material: Linear low-density polyethylene (LLDPE), Breakthrough time: > 480 min, Thickness: 0.062 mm)	 CAT III	EN ISO 21420:2020	Replace the gloves at any sign of deterioration.

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



D.- Eye and face protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory face protection	Face shield	 CAT II	EN 166:2002 EN 167:2002 EN 168:2002 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	Disposable clothing for protection against chemical risks, with antistatic and fireproof properties	 CAT III	EN 1149-1,2,3 EN 13034:2005+A1:2009 EN ISO 13982-1:2004/A1:2010 EN ISO 6529:2013 EN ISO 6530:2005 EN ISO 13688:2013 EN 464:1994	For professional use only. Clean periodically according to the manufacturer's instructions.
 Mandatory foot protection	Safety footwear for protection against chemical risk, with antistatic and heat resistant properties	 CAT III	EN ISO 13287:2020 EN ISO 20345:2011 EN 13832-1:2019	Replace boots at any sign of deterioration.

F.- Additional emergency measures

Emergency measure	Standards	Emergency measure	Standards
 Emergency shower	ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011	 Eyewash stations	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011

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

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

*Not available due to the nature of the product, not providing information property of its hazards.

- CONTINUED ON NEXT PAGE -

**UTWARDZACZ DO SZPACHLÓWKI NATRYSKOWEJ - HARDENER FOR SPRAY PUTTY****SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)****9.1 Information on basic physical and chemical properties:**

For complete information see the product datasheet.

Appearance:

Physical state at 20 °C:	Liquid
Appearance:	Fluid
Colour:	Colourless
Odour:	Characteristic
Odour threshold:	Not available *

Volatility:

Boiling point at atmospheric pressure:	Not available *
Vapour pressure at 20 °C:	5128 Pa
Vapour pressure at 50 °C:	Not available *
Evaporation rate at 20 °C:	Not available *

Product description:

Density at 20 °C:	1013 - 1016 kg/m ³
Relative density at 20 °C:	1,013 - 1,016
Dynamic viscosity at 20 °C:	Not available *
Kinematic viscosity at 20 °C:	Not available *
Kinematic viscosity at 40 °C:	Not available *
Concentration:	Not available *
pH:	Not available *
Vapour density at 20 °C:	Not available *
Partition coefficient n-octanol/water 20 °C:	Not available *
Solubility in water at 20 °C:	Not available *
Solubility properties:	Miscible
Decomposition temperature:	60 °C
Melting point/freezing point:	Not available *

Flammability:

Flash Point:	Non-applicable
Flammability (solid, gas):	Not available *
Autoignition temperature:	Not available *
Lower flammability limit:	Not available
Upper flammability limit:	Not available

Particle characteristics:

Median equivalent diameter:	Non-applicable
-----------------------------	----------------

9.2 Other information:**Information with regard to physical hazard classes:**

Explosive properties:	Not available *
Oxidising properties:	H242 Heating may cause a fire.
Corrosive to metals:	Not available *
Heat of combustion:	Not available *
Aerosols-total percentage (by mass) of flammable components:	Not available *

Other safety characteristics:

*Not available due to the nature of the product, not providing information property of its hazards.

- CONTINUED ON NEXT PAGE -



Safety data sheet

This SDS is an English translation of COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation

UTWARDZACZ DO SZPACHLÓWKI NATRYSKOWEJ - HARDENER FOR SPRAY PUTTY

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

Surface tension at 20 °C: Not available *

Refraction index: Not available *

*Not available 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 from Safety Data Sheet.

10.2 Chemical stability:

Chemically stable under the indicated 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	Heating may cause a fire or explosion	Avoid direct impact	Not applicable

10.5 Incompatible materials:

Acids	Water	Oxidising materials	Combustible materials	Others
Avoid strong acids	Not applicable	Avoid direct impact	Avoid direct impact	Avoid alkalines, heavy metals, reducing agents, peroxide accelerating agents

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 hazard classes as defined in Regulation (EC) No 1272/2008:

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

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: Corrosive product, if it is swallowed causes burns destroying the tissues. For more information about secondary effects from skin contact see section 2.

B- Inhalation (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for inhalation. For more information see section 3.
- Corrosivity/Irritability: Prolonged inhalation of the product is corrosive to mucous membranes and the upper respiratory tract

C- Contact with the skin and the eyes (acute effect):

- Contact with the skin: Above all, skin contact may occur as fabrics of all thicknesses can be destroyed, resulting in burns. For more information on the secondary effects see section 2.
- Contact with the eyes: Produces serious eye damage after contact.

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

- CONTINUED ON NEXT PAGE -

**UTWARDZACZ DO SZPACHLÓWKI NATRYSKOWEJ - HARDENER FOR SPRAY PUTTY****SECTION 11: TOXICOLOGICAL INFORMATION (continued)**

- Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for the effects mentioned. For more information see section 3.

IARC: Not relevant

- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous 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 hazardous 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 hazardous with sensitising effects. For more information see section 3.

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

F- Specific target organ toxicity (STOT) - single exposure:

Causes irritation in respiratory passages, which is normally reversible and limited to the upper respiratory passages.

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 hazardous for this effect. For more information see section 3.

- Skin: Repeated exposure may cause skin dryness or cracking

H- Aspiration hazard:

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

Other information:

Not relevant

Specific toxicology information on the substances:

Identification	Acute toxicity		Genus
Dimethyl Phthalate CAS: 131-11-3 EC: 205-011-6	LD50 oral	>2000 mg/kg	
	LD50 dermal	>2000 mg/kg	
	LC50 inhalation	>20 mg/L	
4-hydroxy-4-methylpentan-2-one CAS: 123-42-2 EC: 204-626-7	LD50 oral	4000 mg/kg	Rat
	LD50 dermal	13630 mg/kg	Rabbit
	LC50 inhalation	>20 mg/L	
Ethyl acetate CAS: 141-78-6 EC: 205-500-4	LD50 oral	4100 mg/kg	Rat
	LD50 dermal	20000 mg/kg	Rabbit
	LC50 inhalation	>20 mg/L	
Cyclohexanone, peroxide CAS: 12262-58-7 EC: 235-527-7	LD50 oral	500 mg/kg (ATEi)	Rat
	LD50 dermal	1100 mg/kg	Rat
	LC50 inhalation	11 mg/L (4 h)	Rat

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

Endocrine-disrupting properties: The product does not meet the criteria.

Other information

Not relevant

SECTION 12: ECOLOGICAL INFORMATION

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

12.1 Toxicity:**Product-specific aquatic toxicity:**

Acute toxicity	Species	Genus
----------------	---------	-------

- CONTINUED ON NEXT PAGE -



Safety data sheet

This SDS is an English translation of COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation

UTWARDZACZ DO SZPACHLÓWKI NATRYSKOWEJ - HARDENER FOR SPRAY PUTTY

SECTION 12: ECOLOGICAL INFORMATION (continued)

LC50	89,73 mg/L (96 h)	Non-applicable	Fish
------	-------------------	----------------	------

Substance-specific aquatic toxicity:

Acute toxicity:

Identification	Concentration	Species	Genus
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	Crustacean
	EC50 3300 mg/L (48 h)	Scenedesmus subspicatus	Algae
4-hydroxy-4-methylpentan-2-one CAS: 123-42-2 EC: 204-626-7	LC50 420 mg/L (96 h)	Lepomis macrochirus	Fish
	EC50 9016 mg/L (24 h)	Daphnia magna	Crustacean
	EC50 530 mg/L (192 h)	Microcystis aeruginosa	Algae
Dimethyl Phthalate CAS: 131-11-3 EC: 205-011-6	LC50 39 mg/L (96 h)	Pimephales promelas	Fish
	EC50 150 mg/L (24 h)	Daphnia magna	Crustacean
	EC50 204 mg/L (72 h)	Scenedesmus subspicatus	Algae
Cyclohexanone, peroxide CAS: 12262-58-7 EC: 235-527-7	LC50 48 mg/L (96 h)	Poecilia reticulata	Fish
	EC50 Not relevant		
	EC50 Not relevant		

Chronic toxicity:

Identification	Concentration	Species	Genus
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	Crustacean
4-hydroxy-4-methylpentan-2-one CAS: 123-42-2 EC: 204-626-7	NOEC Not relevant		
	NOEC 100 mg/L	Daphnia magna	Crustacean
Dimethyl Phthalate CAS: 131-11-3 EC: 205-011-6	NOEC 11 mg/L	Oncorhynchus mykiss	Fish
	NOEC 9,6 mg/L	Daphnia magna	Crustacean
Cyclohexanone, peroxide CAS: 12262-58-7 EC: 235-527-7	NOEC Not relevant		
	NOEC 1,5 mg/L	Daphnia magna	Crustacean

12.2 Persistence and degradability:

Substance-specific information:

Identification	Degradability	Biodegradability
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
	BOD5/COD 0,8	% Biodegradable 83 %
4-hydroxy-4-methylpentan-2-one CAS: 123-42-2 EC: 204-626-7	BOD5 Not relevant	Concentration 100 mg/L
	COD Not relevant	Period 14 days
	BOD5/COD Not relevant	% Biodegradable 90 %
Dimethyl Phthalate CAS: 131-11-3 EC: 205-011-6	BOD5 1,12 g O2/g	Concentration 100 mg/L
	COD 0,74 g O2/g	Period 28 days
	BOD5/COD 1,51	% Biodegradable 93 %

12.3 Bioaccumulative potential:

Substance-specific information:

Identification	Bioaccumulation potential
Ethyl acetate CAS: 141-78-6 EC: 205-500-4	BCF 30
	Pow Log 0.73
	Potential Moderate
4-hydroxy-4-methylpentan-2-one CAS: 123-42-2 EC: 204-626-7	BCF 0.5
	Pow Log -0.34
	Potential Low
Dimethyl Phthalate CAS: 131-11-3 EC: 205-011-6	BCF 57
	Pow Log 1.6
	Potential Moderate

12.4 Mobility in soil:

- CONTINUED ON NEXT PAGE -



Safety data sheet

This SDS is an English translation of COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation

UTWARDZACZ DO SZPACHLÓWKI NATRYSKOWEJ - HARDENER FOR SPRAY PUTTY**SECTION 12: ECOLOGICAL INFORMATION (continued)**

Identification	Absorption/desorption		Volatility	
Ethyl acetate CAS: 141-78-6 EC: 205-500-4	Koc	59	Henry	13,58 Pa·m ³ /mol
	Conclusion	Very High	Dry soil	Yes
	Surface tension	2,324E-2 N/m (25 °C)	Moist soil	Yes
4-hydroxy-4-methylpentan-2-one CAS: 123-42-2 EC: 204-626-7	Koc	Not relevant	Henry	Not relevant
	Conclusion	Not relevant	Dry soil	Not relevant
	Surface tension	2,963E-2 N/m (25 °C)	Moist soil	Not relevant
Dimethyl Phthalate CAS: 131-11-3 EC: 205-011-6	Koc	Not relevant	Henry	Not relevant
	Conclusion	Not relevant	Dry soil	Not relevant
	Surface tension	4,044E-2 N/m (25 °C)	Moist soil	Not relevant

12.5 Results of PBT and vPvB assessment:

Product does not meet PBT/vPvB criteria

12.6 Endocrine disrupting properties:

Endocrine-disrupting properties: The product does not meet the criteria.

12.7 Other adverse effects:

Not described

SECTION 13: DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods:**

Code	Description	Waste class (Regulation (EU) No 1357/2014)
16 09 04*	oxidising substances, not otherwise specified	Hazardous

Type of waste (Regulation (EU) No 1357/2014):

HP3 Flammable, HP5 Specific Target Organ Toxicity (STOT)/Aspiration Toxicity, HP8 Corrosive

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-hazardous residue. Waste should not be disposed of to drains. 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 2023 and RID 2023:

- CONTINUED ON NEXT PAGE -

UTWARDZACZ DO SZPACHLÓWKI NATRYSKOWEJ - HARDENER FOR SPRAY PUTTY**SECTION 14: TRANSPORT INFORMATION (continued)**

- 14.1 UN number or ID number:** UN3105
14.2 UN proper shipping name: ORGANIC PEROXIDE TYPE D, LIQUID (Cyclohexanone, peroxide)
14.3 Transport hazard class(es): 5.2
Labels: 5.2
14.4 Packing group: N/A
14.5 Environmental hazards: No
14.6 Special precautions for user
Special regulations: 122, 274
Tunnel restriction code: D
Physico-Chemical properties: see section 9
Limited quantities: 125 mL
14.7 Maritime transport in bulk according to IMO instruments: Not relevant

Transport of dangerous goods by sea:

With regard to IMDG 41-22:



- 14.1 UN number or ID number:** UN3105
14.2 UN proper shipping name: ORGANIC PEROXIDE TYPE D, LIQUID (Cyclohexanone, peroxide)
14.3 Transport hazard class(es): 5.2
Labels: 5.2
14.4 Packing group: N/A
14.5 Marine pollutant: No
14.6 Special precautions for user
Special regulations: 274, 122
EmS Codes: F-J, S-R
Physico-Chemical properties: see section 9
Limited quantities: 125 mL
Segregation group: SGG16
14.7 Maritime transport in bulk according to IMO instruments: Not relevant

Transport of dangerous goods by air:

With regard to IATA/ICAO 2024:



- 14.1 UN number or ID number:** UN3105
14.2 UN proper shipping name: ORGANIC PEROXIDE TYPE D, LIQUID (Cyclohexanone, peroxide)
14.3 Transport hazard class(es): 5.2
Labels: 5.2
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 Maritime transport in bulk according to IMO instruments: Not relevant

SECTION 15: REGULATORY INFORMATION**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:**

- Article 95, REGULATION (EU) No 528/2012: Not relevant
- Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Not relevant
- Regulation (EC) No 1005/2009, about substances that deplete the ozone layer: Not relevant
- REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Not relevant
- Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Not relevant

- CONTINUED ON NEXT PAGE -

**UTWARDZACZ DO SZPACHLÓWKI NATRYSKOWEJ - HARDENER FOR SPRAY PUTTY****SECTION 15: REGULATORY INFORMATION (continued)****Seveso III:**

Section	Description	Lower-tier requirements	Upper-tier requirements
P5c	FLAMMABLE LIQUIDS	5000	50000
P6b	SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES	50	200

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

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:**

The SDS shall be supplied in an official language of the country where the product is placed on the market. 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 (COMMISSION REGULATION (EU) 2020/878).

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

COMMISSION REGULATION (EU) 2020/878

Texts of the legislative phrases mentioned in section 2:

- H225: Highly flammable liquid and vapour.
- H314: Causes severe skin burns and eye damage.
- H318: Causes serious eye damage.
- H335: May cause respiratory irritation.
- H336: May cause drowsiness or dizziness.
- H242: Heating may cause a fire.

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.
- Eye Irrit. 2: H319 - Causes serious eye irritation.
- Flam. Liq. 2: H225 - Highly flammable liquid and vapour.
- Org. Perox. C: H242 - Heating may cause a fire.
- Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.
- STOT SE 3: H336 - May cause drowsiness or dizziness.

Classification procedure:

- Flam. Liq. 2: Calculation method (2.6.4.3)
- Skin Corr. 1B: Calculation method
- Eye Dam. 1: Calculation method
- STOT SE 3: Calculation method
- STOT SE 3: Calculation method

Advice related to training:

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:

- CONTINUED ON NEXT PAGE -

**UTWARDZACZ DO SZPACHLÓWKI NATRYSKOWEJ - HARDENER FOR SPRAY PUTTY****SECTION 16: OTHER INFORMATION (continued)**

<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: 5day biochemical oxygen demand

BCF: Bioconcentration factor

LD50: Lethal Dose 50

LC50: Lethal Concentration 50

EC50: Effective concentration 50

LogPOW: Octanolwater partition coefficient

Koc: Partition coefficient of organic carbon

UFI: unique formula identifier

IARC: International Agency for Research on Cancer

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 -