



SAFETY DATA SHEET

In accordance with the criteria of Regulation No 1907/2006 (REACH)
as amended

BETOX-50PC, BETOX-50PC WHITE, BETOX-50PC RED, HARDENER PASTE

Date: 11.08.1999

Revision: 28.04.2023

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

1.1. Product identifier

BETOX-50PC, BETOX-50PC WHITE, BETOX-50PC RED, HARDENER PASTE

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

Relevant identified uses: Hardener, polymerization initiator.

For consumer use (packages ≤ 125 ml); for professional use (packages > 125 ml).

Uses advised against: Not determined.

1.3. Details of the supplier of the safety data sheet

Manufacturer: Oxytop Sp. z o.o.

Address: Poland; PL 62-060 Stęszew; Antoninek 2 Street

Telephone/Fax: +48 61 898 53 00, +48 61 898 53 01

E-mail address of the person responsible for the SDS: dokumentacja@oxytop.pl

1.4. Emergency telephone number

112 (emergency call)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation 1272/2008/EC:

Org. Perox. E; H242

Skin Sens. 1; H317

Eye Irrit. 2; H319

STOT RE 2; H373

Aquatic Acute 1; H400

Aquatic Chronic 1; H410

Hazards to man: May cause an allergic skin reaction. Causes serious eye irritation. May cause damage to organs through prolonged or repeated exposure.

Hazards to environment: Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

Hazard from physical and chemical properties: Heating may cause a fire.

In section 16 stated the meaning of H-phrases and symbols.

2.2. Label elements

Label accordance with Regulation 1272/2008/EC (CLP)

Hazard pictograms, signal words:



Warning



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Hazard statements:

H242 - Heating may cause a fire.

H317 - May cause an allergic skin reaction.

H319 - Causes serious eye irritation.

H373 - May cause damage to organs through prolonged or repeated exposure.

H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements:

For consumer use (packages ≤125 ml):

P102 - Keep out of reach of children.

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

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

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

P337+P313 - If eye irritation persists: Get medical advice/attention.

P501 - Dispose of contents/container to disposal containers.

For professional use (packages >125 ml):

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

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

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

P337+P313 - If eye irritation persists: Get medical advice/attention.

P501 - Dispose of contents/container to disposal containers.

The names of hazardous ingredients on the label: Dibenzoyl peroxide; Dibutyl maleate; 2,2'-oxydiethanol.

2.3. Other hazards

The product does not meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation 1907/2006 (REACH).

The product does not contain ingredients entered in the list established in accordance with Art. 59 paragraph 1 as having endocrine disrupting properties or components with endocrine disrupting properties in accordance with the criteria set out in Regulation 2017/2100/EU or Regulation 2018/605/EU in a concentration equal to or greater than 0.1 %.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable.

3.2. Mixtures

Mixture name: Dibenzoyl peroxide in stabilizer.

Synonyms: Benzoyl peroxide in stabilizer, BPO.

Substance name:	Dibenzoyl peroxide
Concentration [%]:	48-52



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CAS Number:	94-36-0
EC Number:	202-327-6
Index Number:	617-008-00-0
Classification 1272/2008/EC:	Org. Perox. B; H241 Skin Sens. 1; H317 Eye Irrit. 2; H319 Aquatic Acute 1; H400* M=10 Aquatic Chronic 1; H410* M=10
The registration number:	01-2119511472-50-XXXX

Substance name:	Dibutyl maleate**
Concentration [%]:	<25
CAS Number:	105-76-0
EC Number:	203-328-4
Index Number:	-
Classification 1272/2008/EC:	Skin Sens. 1; H317 STOT RE 2; H373 Aquatic Acute 1; H400
The registration number:	01-2119523581-45-XXXX

Substance name:	2,2'-oxydiethanol
Concentration [%]:	<5
CAS Number:	111-46-6
EC Number:	203-872-2
Index Number:	603-140-00-6
Classification 1272/2008/EC:	Acute Tox. 4; H302 STOT RE 2; H373*
The registration number:	01-2119457857-21-XXXX

*Additional manufacturer's classification.

**Substance not classified in Annex VI, Table 3.1 of Regulation 1272/2008. Manufacturer's classification.

In section 16 stated the meaning of H-phrases and symbols.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation: Remove affected person to fresh air and keep rested. Seek medical advice if there are worrisome symptoms.

Skin contact: Remove contaminated clothing and wash before reuse. Wash off contaminated skin with plenty of running water and neutral soap. If skin irritation or rash occurs: Get medical advice/attention.

Eye contact: Remove contact lenses. Flush eyes with plenty of water for at least 15 minutes, with eyelids rolled up. From time to time, overlap the upper eyelid with the lower eyelid. Do not rub the eye. If eye irritation persists: Get medical advice/attention.



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Ingestion: Do not induce vomiting. If vomiting occurs spontaneously, lean the victim forward to avoid aspiration into the lungs. Rinse out the mouth with water. Ensure warmth and calmness. Seek medical advice if alarming symptoms occur.

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

May cause damage to organs through prolonged or repeated exposure.

Inhalation: Inhalation of large amounts of product vapors may cause respiratory irritation.

Skin contact: May cause an allergic skin reaction. May cause burning pain, redness, rash and blister formation.

Eye contact: Causes serious eye irritation.

Ingestion: Consumption of larger amounts may cause irritation of the digestive system.

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

Remove affected person from the environment contaminated by the product. In the event of health problems, consult your doctor or the centre of toxicological concern. Provide the information contained in the SDS. If unconscious, do not give anything by mouth.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Water spray, dry powder.

Unsuitable extinguishing media: Not specified.

5.2. Special hazards arising from the substance or mixture

Heating may cause a fire. In case of combustion (fire) hazardous products may be formed: carbon oxide. Avoid inhalation of combustion products, because they may pose a health risk.

5.3. Advice for firefighters

Wear full protective equipment and self-contained breathing apparatus with independent air circulation. Containers exposed to fire or high temperature cool with water and if possible remove from the danger zone. Protect drains, surface waters and soil from pollution. Treat fire water as hazardous pollution and collect in separate containers.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: Access of non-emergency personnel to the area of accident should be restricted until the completion of the disposal of the product. Remove sources of ignition. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid inhalation of vapours. Avoid contact with eyes, skin and clothes.

For emergency responders: Remove sources of ignition. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid inhalation of vapours. Avoid contact with eyes, skin and clothes.

6.2. Environmental precautions

Secure the gullies. Prevent contamination of surface and ground water. In the event of any serious pollution of the environment, notify the appropriate administrative authority, control and rescue services. Deliver used packaging to companies authorized to process it.



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6.3. Methods and material for containment and cleaning up

Secure damaged packaging. Collect mechanically with a shovel. Place the product collected from the environment in a sealed replacement container and send it for destruction.

6.4. Reference to other sections

Disposal - see Section 13. Personal protective equipment - see Section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Do not eat, drink, smoke or take drugs at work. Wash hands before break and after work with product. Avoid contact with eyes, skin and clothing. Use appropriate protective clothing and personal protective equipment. Provide adequate ventilation. Avoid inhalation of vapors. Avoid sources of ignition. Take off contaminated clothing and wash it before reuse. Ground and bond container and receiving equipment. Take measures to prevent electrostatic discharge. Contaminated work clothing should not be allowed out of the workplace. Equipment and installations must comply with the technical safety standards applicable to organic peroxides. Never mix peroxides directly with the accelerator - add each component separately to the resin.

7.2. Conditions for safe storage, including any incompatibilities

Store in a place that meets the safety and fire protection regulations applicable to organic peroxides. Keep in properly labelled, factory sealed containers, with a label which complies with current regulations. Store in a cool, dry and well-ventilated area. Keep only in original packaging. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Store at temperatures below 25 °C to maintain the physical and chemical parameters of the product. Store away from foodstuffs. Avoid contact with strong acids, bases, heavy metal salts, reducing and oxidizing agents. Store separately. Avoid direct sunlight. Protect containers from contamination. Do not reuse empty containers. Recommended material for packaging: stainless steel, high-density polyethylene (HDPE), polytetrafluoroethylene (PTFE).

7.3. Specific end use(s)

Hardener, polymerization initiator.

For consumer use (packages ≤125 ml); for professional use (packages >125 ml).

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Substance name	TWA	STEL	BLV
Dibenzoyl peroxide [CAS: 94-36-0]	5 mg/m ³	-	-
2,2'-oxydiethanol [CAS: 111-46-6]	101 mg/m ³	-	-

Legal basis: Ordinance on maximum permissible concentration and intensity of harmful factors in the work environment in accordance with national limit values.

EH40/2005 Workplace exposure limits, fourth edition, published 2020, ISBN 978 0 7176 6733 8.



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Monitoring procedures: Use methods described in European Standards.

DNEL - Derived no-effect level.

Dibenzoyl peroxide [CAS: 94-36-0]

For workers:

Long-term systemic exposure - skin - 13.3 mg/kg b.w.

Long-term systemic exposure - inhalation - 39 mg/m³

For consumers:

Long-term systemic exposure - oral - 2 mg/kg b.w.

Dibutyl maleate [CAS: 105-76-0]

For workers:

Long-term systemic exposure - skin - 0.42 mg/kg b.w.

Long-term systemic exposure - inhalation - 5.28 mg/m³

Long-term local exposure - inhalation - 5.28 mg/m³

For consumers:

Long-term systemic exposure - oral - 0.25 mg/kg b.w.

2,2'-oxydiethanol [CAS: 111-46-6]

For workers:

Long-term systemic exposure - skin - 43 mg/kg b.w.

Long-term systemic exposure - inhalation - 44 mg/m³

Long-term local exposure - inhalation - 60 mg/m³

For consumers:

Long-term systemic exposure - skin - 21 mg/kg b.w.

Long-term systemic exposure - inhalation - 12 mg/m³

Long-term local exposure - inhalation - 12 mg/m³

PNEC - Predicted no-effect concentration.

Dibenzoyl peroxide [CAS: 94-36-0]

Sewage treatment plant - 0.35 mg/l

Soil - 0.003 mg/kg

Water, occasional release - 0.000602 mg/l

Fresh water - 0.00002 mg/l

Sea water - 0.000002 mg/l

Fresh water, sediment - 0.013 mg/kg

Sea water, sediment - 0.001 mg/kg

Dibutyl maleate [CAS: 105-76-0]

Sewage treatment plant - 4.886 mg/l

Soil - 0.006 mg/kg

Water, occasional release - 0.006 mg/l

Oral - 0.00633 g/kg food

Fresh water - 0.001 mg/l

Sea water - 0 mg/l

Fresh water, sediment - 0.031 mg/kg

Sea water, sediment - 0.003 mg/kg

2,2'-oxydiethanol [CAS: 111-46-6]

Sewage treatment plant - 199.5 mg/l



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Soil - 1.53 mg/kg
Water, occasional release - 10 mg/l
Fresh water - 10 mg/l
Sea water - 1 mg/l
Fresh water, sediment - 20.9 mg/kg
Sea water, sediment - 2.09 mg/kg

8.2. Exposure controls

Mandatory general regulations on occupational health. Do not allow to exceed the normative concentrations of hazardous constituents in the workplace. After work, wash and clean the surface of the body and clothing. Do not eat, drink, smoke or take drugs at work. Take off contaminated clothing and wash it before reuse. Wash hands and face before break and after working with the product. Avoid contact with eyes, skin and clothing. Provide adequate ventilation in the workplace. Wear appropriate personal protective equipment. Avoid inhalation of vapours. Avoid sources of ignition. Ground and bond container and receiving equipment. Take measures to prevent electrostatic discharge. Provide access to eyesores and safety showers. Contaminated work clothing should not be allowed out of the workplace.

Eye/face protection: Use appropriate safety glasses (according to EN 166) and a face shield (if there is a risk of splashing).

Skin Protection: Use appropriate chemical- and heat-resistant protective gloves in accordance with EN 374. Recommended material is butyl, nitrile or neoprene (durability time: 480 min.). Do not apply creams after skin contact. Use appropriate anti-static, flame-retardant, chemical-resistant protective clothing and safety shoes.

Respiratory protection: It is usually not required if the work is carried out in a well-ventilated room. In case of vapor formation, a breathing apparatus with filter A (according to EN 405) is recommended.

Thermal Hazards: Not specified.

The personal protective equipment used should meet the requirements of Regulation (EU) 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment. The employer must provide personal protective equipment appropriate to the type of work and in accordance with all requirements, including maintenance and cleaning.

Concentrations of hazardous substances in the workplace should be monitored in accordance with acknowledged test methods. Mode, method, type and frequency of testing and measurement of harmful factors in the working environment should meet the requirements of local/regional/national laws.

Environmental exposure controls: The large amount of product should not be allowed to penetrate through the ground water, sewage, waste water or soil.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:

Paste at 20 °C

Colour:

Characteristic of the pigment used

Odour:

Not specified



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Melting point/freezing point:	Not specified
Boiling point or initial boiling point and boiling range:	Not specified
Flammability:	Flammable
Lower and upper explosion limit:	Not specified
Flash point:	Not specified
Auto-ignition temperature:	Not specified
Decomposition temperature:	SADT (self-accelerating decomposition temperature): The lowest temperature at which self-accelerating thermal decomposition of a substance in a package used for transportation can occur. Thermal decomposition at and above this temperature can lead to a dangerous self-accelerating decomposition reaction and, in some cases, explosion. Contact with incompatible materials can cause decomposition below the SADT temperature. SADT: 50 °C
pH:	Not specified
Kinematic viscosity:	Dynamic: thixotropic mixture
Solubility:	Insoluble in water at 20 °C
Partition coefficient n-octanol/water (log value):	Not specified
Vapour pressure:	Not specified
Density and/or relative density:	Not specified
Relative vapour density:	Not specified
Particle characteristics:	Grain size: <200 µm

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Not specified.

9.2.2. Other safety characteristics

Active Oxygen: (3.2-3.4) %

SECTION 10: Stability and reactivity

10.1. Reactivity

May react with strong acids, bases, heavy metal salts, reducing and oxidizing agents.

10.2. Chemical stability

Stable under normal conditions of storage.

10.3. Possibility of hazardous reactions

None under normal conditions of use and storage.

10.4. Conditions to avoid

Avoid sources of ignition, sparks and sources of heat. Avoid direct sunlight.

10.5. Incompatible materials

Strong acids, bases, heavy metal salts, reducing and oxidizing agents.

10.6. Hazardous decomposition products

None under normal conditions of use and storage.



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SECTION 11: Toxicological information

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

Acute toxicity: Based on available data, the classification criteria are not met.

ATE_{mix} (oral) >2000 mg/kg b.w.

Dibenzoyl peroxide [CAS: 94-36-0]

LD₅₀ (oral, rat) 7710 mg/kg b.w.

LD₅₀ (dermal) >2000 mg/kg b.w.

LC₅₀ (inhalation) >5 mg/l

Dibutyl maleate [CAS: 105-76-0]

LD₅₀ (oral, rat) 3730 mg/kg b.w.

LD₅₀ (dermal) >2000 mg/kg b.w.

LC₅₀ (inhalation) >20 mg/l

2,2'-oxydiethanol [CAS: 111-46-6]

LD₅₀ (oral, rat) 500 mg/kg b.w.

LD₅₀ (skin, rabbit) 11890 mg/kg b.w.

LC₅₀ (inhalation) >20 mg/l

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/irritation: Causes serious eye irritation.

Respiratory or skin sensitization: May cause an allergic skin reaction.

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met.

STOT - single exposure: Based on available data, the classification criteria are not met.

STOT - repeated exposure: May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard: Based on available data, the classification criteria are not met.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Not specified.

11.2.2. Other information

May cause damage to organs through prolonged or repeated exposure.

Inhalation: Inhalation of large amounts of product vapors may cause respiratory irritation.

Skin contact: May cause an allergic skin reaction. May cause burning pain, redness, rash and blister formation.

Eye contact: Causes serious eye irritation.

Ingestion: Consumption of larger amounts may cause irritation of the digestive system.

SECTION 12: Ecological information

12.1. Toxicity

Very toxic to aquatic life with long lasting effects.



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Dibenzoyl peroxide [CAS: 94-36-0]

Toxicity to fish:

LC₅₀ (*Oncorhynchus mykiss*) 0.0602 mg/L/96 h

Toxicity to aquatic invertebrates:

EC₅₀ (*Daphnia magna*) 0.11 mg/L/48 h

Toxicity to algae:

EC₅₀ (*Pseudokirchneriella subcapitata*) 0.071 mg/L/72 h

Dibutyl maleate [CAS: 105-76-0]

Toxicity to fish:

LC₅₀ (*Oncorhynchus mykiss*) 0.6 mg/L/96 h

Toxicity to aquatic invertebrates:

EC₅₀ (*Daphnia magna*) 21 mg/L/48 h

Toxicity to algae:

EC₅₀ (*Desmodesmus subspicatus*) 6.2 mg/L/72 h

2,2'-oxydiethanol [CAS: 111-46-6]

Toxicity to fish:

LC₅₀ (*Gambusia affinis*) 32000 mg/L/96 h

Toxicity to aquatic invertebrates:

EC₅₀ (*Daphnia magna*) 84000 mg/L/48 h

NOEC (*Ceriodaphnia dubia*) 8590 mg/L

12.2. Persistence and degradability

Not specified for the mixture.

12.3. Bioaccumulative potential

Not specified for the mixture.

12.4. Mobility in soil

Not specified for the mixture.

12.5. Results of PBT and vPvB assessment

The product does not contain PBT and vPvB substances.

12.6. Endocrine disrupting properties

Not applicable.

12.7. Other adverse effects

Not specified for the mixture.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

During removal of waste comply with the regional/national laws.

Community legislation:

- Directive **2008/98/EC** of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives as amended.
- European Parliament and Council Directive **94/62/EC** of 20 December 1994 on packaging and packaging waste as amended.

Disposal methods for the product: Do not introduce into the environment. Disposal in accordance with the local/national legislation.

Disposal methods for used packing: Product and containers give for appropriate rubbish dump or for disposal in accordance with the local/national legislation.



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The waste code is assigned according to the source of generation, therefore, the end user should, taking into account the specific conditions of use of the product, define the waste and assign the correct code in accordance with applicable regulations.

SECTION 14: Transport information

	ADR	RID	ADN	IMDG	ICAO TI
14.1. UN number or ID number	UN 3108				
14.2. UN proper shipping name	ORGANIC PEROXIDE TYPE E, SOLID (Dibenzoyl peroxide)				
14.3. Transport hazard class(es)	5.2				
14.4. Packing group	Not specified				
14.5. Environmental hazards	Very toxic to aquatic life with long lasting effects.				
14.6. Special precautions for user	During cargo handling use personal protective equipment - see Section 8.				
14.7. Maritime transport in bulk according to IMO instruments	Not applicable				

SECTION 15: Regulatory information

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

Directive 2012/18/EU of the European Parliament and of the Council of 4 July 2012 on the control of major-accident hazards involving dangerous substances, amending and subsequently repealing Council Directive 96/82/EC.

Substance name / Hazard category	Qualifying quantity (tonnes)	
	Lower-tier requirements	Upper-tier requirements
Dibenzoyl peroxide [CAS: 94-36-0] / P6b / E1	50 / 100	200

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 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC as amended.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council 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 Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).



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Regulation (EU) 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC.

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives as amended.

European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste 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.

Commission directive (EU) 2017/164 of 31 January 2017 establishing a fourth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC, and amending Commission Directives 91/322/EEC, 2000/39/EC and 2009/161/EU.

Commission Directive (EU) 2019/1831 of 24 October 2019 establishing a fifth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC and amending Commission Directive 2000/39/EC.

15.2. Chemical safety assessment

A chemical safety assessment is not required.

SECTION 16: Other information

The full text of H-statements from Sections 2 and 3:

H241 - Heating may cause a fire or explosion.

H242 - Heating may cause a fire.

H302 - Harmful if swallowed.

H317 - May cause an allergic skin reaction.

H319 - Causes serious eye irritation.

H373 - May cause damage to organs through prolonged or repeated exposure.

H400 - Very toxic to aquatic life.

H410 - Very toxic to aquatic life with long lasting effects.

Key to abbreviations and acronyms:

Acute Tox. 4 - Acute toxicity (oral), Hazard Category 4.

ADN - The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.

ADR - The European Agreement on the International Carriage of Dangerous Goods by Road.

Aquatic Acute 1 - Hazardous to the aquatic environment - Acute Hazard, Category 1.

Aquatic Chronic 1 - Hazardous to the aquatic environment - Chronic Hazard, Category 1.

ATE_{mix} - Estimated acute toxicity for the mixture.

BLV - Biological Limit Value.

DNEL - Derived no-effect level.

EC₅₀ - The effective concentration of substance that causes 50% of the maximum response.

Eye Irrit. 2 - Serious eye damage/eye irritation, Hazard Category 2.



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ICAO TI - Technical instructions for the safe transport of hazardous materials by air.
IMDG - International Maritime Dangerous Goods Codex.
LC₅₀ - Media lethal concentration.
LD₅₀ - Median lethal dose.
NOEC - No observed effect concentration.
Org. Perox. B, D, E - Organic Peroxides, Types B, D, E.
PNEC - Predicted no-effect concentration.
RID - The Regulation concerning the International Carriage of Dangerous Goods by Rail.
Skin Sens. 1 - Sensitisation - Skin, hazard category 1.
STEL - Short-Term Exposure Limit.
STOT RE 2 - Specific target organ toxicity - Repeated exposure, Hazard Category 2.
TWA - Time Weighted Average.

Sources of key data:

Information provided electronically.
Manufacturer's safety data sheets dated 08.12.2022 (version 5).

Classification according to Regulation (EC) Nr. 1272/2008:

Org. Perox. E; H242

Skin Sens. 1; H317

Eye Irrit. 2; H319

STOT RE 2; H373

Aquatic Acute 1; H400

Aquatic Chronic 1; H410

Classification procedure:

Manufacturer's classification

Calculation method

Calculation method

Calculation method

Calculation method

Calculation method

Training advice: Before use read the SDS.

The information above is based on a current available data concerning the product, but also on the experience and knowledge in this field of the producer. They are neither a quality description of the product nor a guarantee of particular features. They are also treated as aid to safety in transport, storage and usage of the product. This does not free the user from the responsibility of improper usage of the information above also of improper compliance with the law norms in the field.

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This safety data sheet supersedes and cancels all its previous editions.

The update of the safety data sheet dated 08.12.2022 (Version 5) was made in sections 1-16.