

According to directive 1907/2006/EC, 2020/878
Version 3.0 Revision date: 05-01-2023
Trade name: Polyester putty hardener

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

1.1 Product identification:

Product name: Polyester putty hardener
UFI code: W205-702W-800Q-GJQ4

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

Intended for the general public

Main use category: Consumer use, Professional use
Use of the substance or mixture: Hardener
Function or use category: Curing agent (Crosslinker)
Uses advised against: No additional information available.

1.3 Details of the supplier of the safety data sheet:

Responsible distributor : ASSYST bvba / A.S.O.W. bvba
Hellegatstraat 13a
2590 Berlaar
Belgium
Tel: +32 495 50 61 14 / +32 496 83 70 27
Website: www.assyst.org / www.artsuppliesonweb.com
Email: ao@assyst.org / vera.opsommer@assyst.org

1.4 Emergency phone number:

For Belgium:

Call the **Poison Control Center (070 245 245 - free)**, if not available: **02 264 96 30** (normal rate) or your doctor. In life-threatening situations, always call the European emergency number **112**.
For help from a GP, visit your GP surgery's website, use an online service to contact your GP, or call the surgery. **For urgent medical help**, use the NHS 111 online service, or **call 111** if you are unable to get help online. **For life-threatening emergencies, call 999** for an ambulance. There is more information about getting medical help on the NHS website.

NHS 24 Direct

SECTION 2: Identification of hazards

2.1 Classification of the substance or mixture:

Classification in accordance with Regulation (EC) No 1272/2008 as amended.

Health hazards

Organic peroxides, type E - H242
Serious eye damage/eye irritation, Category 2 - H319
Skin sensitisation, Category 1 - H317
Acute danger to the aquatic environment, Category 1 - H400
Chronic danger to the aquatic environment, Category 1 - H410
Full text of H- and EUH-phrases: see section 16

Adverse physicochemical, health and environmental effects

Heating fire hazard.
May cause allergic skin reaction.
Causes severe eye irritation.
Highly toxic to aquatic organisms, with long-term effects.

2.2 Labelling elements:

Labelling according to regulation (EC) No 1272/2008 [CLP/GHS]:

Hazard pictograms:
Signal word



Warning.

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Hazardous ingredients to be declared on the label:

- dibenzoyl peroxide

Hazard statements:

H242 Heating fire hazard.
H317 May cause an allergic skin reaction.
H319 Causes severe eye irritation.
H410 Very toxic to aquatic organisms with long-lasting effects.

Precautions**Prevention:**

P101 When obtaining medical advice, keep container or label at hand.
P102 Keep out of the reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames and other sources of ignition. Do not smoke.
P280 Wear protective clothing, eye protection, face protection, protective gloves.
P391 Clean up any leaks/spills.

Action:

P333+P313 In case of skin irritation or rash: consult a doctor.
P337+P313 In case of persistent eye irritation: Consult a doctor.
P403+P235 Store in a well-ventilated place. Keep cool.
P501 Contents, Dispose of packaging to hazardous or special waste collection point in accordance with local, regional, national and/or international regulations.

2.3 Other hazards:

Contains no PBT or vPvB substances $\geq 0.1\%$ assessed according to REACH Annex XIII.

Component:dibenzoyl peroxide (94-36-0)

This substance/mixture does not meet the PBT criteria of the REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criteria of the REACH regulation, annex XIII
ethylene glycol (107-21-1)

This substance/mixture does not meet the PBT criteria of the REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criteria of the REACH regulation, annex XIII
The mixture does not contain any substances included in the list established according to Article 59(1) of REACH for having endocrine-disrupting properties, or identified as having endocrine-disrupting properties according to the criteria set out in Delegated Regulation (EU) 2017/2100 or Regulation (EU) 2018/605.

SECTION 3: Composition and information on ingredients3.2 Mixtures:

Chemical Name	CAS No. EC No. Index no. REACH Registration number	Classification (Regulation (EC) No 1272/008)	Concentration (%)
dibenzoyl peroxide substance with national workplace exposure limit(s) (BE)	94-36-0 202-327-6 617-008-00-0 01-2119511472-50	Org. Perox. B, H241 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)	≥ 25
ethylene glycol substance with national workplace exposure limit(s) (BE); substance with a Community workplace exposure limit	107-21-1 203-473-3 603-027-00-1 01-2119456816-28	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg body weight) STOT RE 2, H373	$\geq 0,1 - < 1$

The complete text of the hazard statements (H) is shown under section 16 of the sheet.

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SECTION 4: First aid measures

4.1 Description of first-aid measures:

First aid after inhalation:

Get the person into fresh air and make sure they can breathe easily.

First aid after skin contact:

Wash the skin with plenty of water.

Remove contaminated clothing.

In case of skin irritation or rash: consult a doctor.

First aid after eye contact:

Rinse gently with water for several minutes.

Remove contact lenses, if possible.

Keep rinsing.

In case of persistent eye irritation: consult a doctor.

First aid after ingestion by mouth:

If you feel unwell, consult an poison control centre or doctor.

4.2 Main acute and delayed symptoms and effects:

Symptoms/effects after skin contact:

Irritation. May cause allergic skin reaction.

Symptoms/effects after eye contact:

Irritation of the eyes.

4.3 Indication of immediate medical attention and special treatment required:

Symptomatic treatment.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media:

Suitable extinguishing agents

Atomised water. Dry powder. Foam. Carbon dioxide.

Unsuitable extinguishing agents

Do not use water jets.

Water is not effective to extinguish the fire, but it can be used to cool closed containers exposed to fire to prevent bursting and explosions.

5.2 Special hazards arising from the substance or mixture:

Fire hazard:

Heating fire hazard.

Hazardous decomposition products in case of fire:

Possible formation of toxic vapours.

5.3 Advice for firefighters:

Protection during firefighting:

Do not intervene without suitable safety equipment.

Self-contained breathing apparatus.

Fully protective clothing.

SECTION 6: Measures in case of accidental release of the substance or mixture

6.1 Personal precautions, protective equipment and emergency procedures:

For persons other than emergency services

Emergency procedures:

Ventilate contaminated area.

Do not expose to open fire, no sparks and no smoking.

Avoid inhalation of vapour, spray, mist.

Avoid contact with skin and eyes.

For emergency services

Protective equipment:

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Do not intervene without appropriate safety equipment.

For further information, see section 8: "Measures to control exposure/personal protection".

6.2 Environmental precautions:

Avoid discharge into the environment.

6.3 Methods and materials for containment and cleaning:

For containment:

Clean up leaks/spills.

Cleaning methods:

Collect mechanically (by sweeping or shovelling together) and place in a suitable container for disposal.

Alert the authorities, if the product gets into the sewage system or open water.

Other information:

Take waste or solid residues to an authorised waste treatment facility.

6.4 Reference to other sections:

For further information, see paragraph 13.

SECTION 7: Handling and storage:

7.1 Precautions for safe handling of the substance or mixture:

Precautions for safe handling of the substance or mixture:

Make sure the workplace is well ventilated.

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

No smoking.

Wear personal protective equipment.

Avoid contact with skin and eyes.

Avoid inhalation of vapour, mist.

Hygiene measures:

Wash contaminated clothes before reusing them.

Contaminated work clothes must not leave the work area.

Do not eat, drink or smoke while using this product.

Always wash hands after handling this product.

7.2 Conditions for safe storage, including incompatibilities:

Storage conditions:

Store separately from other material.

Protect from sunlight.

Keep only in the original packaging.

Keep cool.

Store in a well-ventilated place.

Non-combinable fabrics:

Heat sources.

Ignition sources.

Strong acids.

Strong bases.

Reducing substances.

Incompatible materials:

Metals. combustibles.

Storage temperature:

5-25°C

Packaging material:

Glass | Polyethylene | Polypropylene | Stainless steel.

7.3 Specific end use:

No additional information available.

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SECTION 8: Exposure controls/personal protection measures

8.1 Control parameters:

National occupational exposure values and biological limit values:

dibenzoyl peroxide (94-36-0)	
Belgium - Occupational exposure limits	
OEL TWA	5 mg/m ³
ethylene glycol (107-21-1)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Ethylene glycol
IOEL TWA	52 mg/m ³
IOEL TWA [ppm]	20 ppm
IOEL STEL	104 mg/m ³
IOEL STEL [ppm]	40 ppm
Comment	Skin
Reference Legislation	COMMISSION DIRECTIVE 2000/39/EC
Belgium - Occupational exposure limits	
Local name	Ethylene glycol (en aérosol) # Ethylene glycol
OEL TWA	52 mg/m ³ (The indication "M" indicates that exposure above the limit value causes irritation or danger of acute poisoning. The work process should be designed so that exposure never exceeds the limit value. In the case of a control, the period sampled should be as short as possible in order to make a reliable measurement. The measurement result is then related to the period considered).
OEL TWA [ppm]	20 ppm (The indication "M" indicates that exposure above the limit value causes irritation or danger of acute poisoning. The work process should be designed so that exposure never exceeds the limit value. In the case of a control, the period sampled should be as short as possible in order to make a reliable measurement. The measurement result is then related to the period considered).
OEL STEL	104 mg/m ³ (The indication "M" indicates that exposure above the limit value causes irritation or danger of acute poisoning. The work process should be designed so that exposure never exceeds the limit value. In the case of a control, the period sampled should be as short as possible in order to make a reliable measurement. The measurement result is then related to the period considered).
OEL STEL [ppm]	40 ppm (The indication "M" indicates that exposure above the limit value causes irritation or danger of acute poisoning. The work process should be designed so that exposure never exceeds the limit value. In the case of a control, the period sampled should be as short as possible in order to make a reliable measurement. The measurement result is then related to the period considered).
Comment	D: the entry "D" indicates that absorption of the agent through the skin, mucous membranes or eyes forms a significant part of the total exposure. This uptake may result from both direct contact and its presence in air, M: the indication "M" indicates that exposure above the limit value results in irritation or danger of acute poisoning. The work process should be designed so that exposure never exceeds the limit value. In the case of a control, the period sampled should be as short as possible in order to make a reliable measurement. The measurement result is then related to the period under consideration.
Reference Legislation	Royal decree/Arrêté royal 11/05/2021

Recommended monitoring procedures:

No additional information available

Air pollutants formed:

No additional information available

DNEL and PNEC:

dibenzoyl peroxide (94-36-0)	
DNEL/DMEL (Employees)	
Long-term - systemic effects, dermal	13.3 mg/kg bw/day
Long-term - systemic effects, inhalation	39 mg/m ³
Long-term - local effects, dermal	34 µg/cm ²
DNEL/DMEL (general population)	
Long-term - systemic effects, oral	2 mg/kg body weight/day
PNEC (Water)	
PNEC aqua (soft water)	0.02 µg/l

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PNEC aqua (seawater)	0.002 µg/l
PNEC (Sediments)	
PNEC sediment (freshwater)	0.013 mg/kg dry weight
PNEC sediment (seawater)	0.001 mg/kg dry weight
PNEC (Soil)	
PNEC soil	0.003 mg/kg dry weight
PNEC (STP)	
PNEC water treatment plant	0.35 mg/l
ethylene glycol (107-21-1)	
DNEL/DMEL (Employees)	
Acute - local effects, inhalation	35 mg/m ³
Long-term - systemic effects, dermal	106 mg/kg bw/day
DNEL/DMEL (general population)	
Long-term - systemic effects, dermal	53 mg/kg bw/day
Acute - local effects, inhalation	7 mg/m ³
PNEC (Water)	
PNEC aqua (soft water)	10 mg/l
PNEC aqua (seawater)	1 mg/l
PNEC aqua (intermittent, freshwater)	10 mg/l
PNEC (Sediments)	
PNEC sediment (freshwater)	37 mg/kg dry weight
PNEC sediment (seawater)	3.7 mg/kg dry weight
PNEC (Soil)	
PNEC soil	1.53 mg/kg dry weight
PNEC (STP)	
PNEC water treatment plant	199.5 mg/l

Control banding:

No additional information available

8.2 Exposure control measures:

Appropriate technical measures:

Make sure the workplace is well ventilated.

Personal protection devices:

Eye protection:

Safety glasses (EN 166).

Skin and body protection:

Protective clothing (EN 14605 or EN 13034).

Hand protection:

Protective gloves against chemicals (EN 374).

Material: Neoprene rubber (HNBR), Nitrile rubber (NBR)

Permeation: 2 (> 30 minutes)

Thickness (mm): ≥ 0.14

Respiratory protection:

[In case of inadequate ventilation] wear respiratory protection.

Thermal hazards:

No additional information available.

Environmental exposure limitation and control:

Avoid discharge into the environment.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Physical state:	Solid
Colour:	Red White Blue.
Appearance:	Pasta-like.
Odour:	characteristic.

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Odour threshold value:	Not available
Melting point:	Not applicable
Freezing point:	Not available
Boiling point:	Not available
Flammability:	Fire hazard when heated.
Explosion limits:	Not applicable
Lower explosion limit (OEL):	Not applicable
Upper explosion limit (BEG):	Not applicable
Flash point:	Not applicable
Self-ignition temperature:	Not applicable
Decomposition temperature:	Not available
SADT:	50°C
pH:	Not available
pH solution:	Not available
Viscosity, kinematic:	Not applicable
Solubility:	Not available
Partition coefficient n-octanol/water (Log Kow):	Not available
Vapour pressure:	Not available
Vapour pressure at 50°C:	Not available
Density:	1.1 g/cm ³ (20°C)
Relative vapour density at 20°C:	Not available
Particle size:	Not applicable

9.2 Other information

Information on physical hazard classes:

No additional information available.

Other safety features:

VOC content: 0%

SECTION 10: Stability and reactivity

10.1 Reactivity:

Heating fire hazard.

10.2 Chemical Stability:

Stable under normal conditions.

10.3 Potential Hazardous Reactions:

No hazardous reactions known under normal conditions of use.

10.4 Conditions to avoid:

Avoid contact with hot surfaces.

Heat.

No flames, no sparks.

Remove all ignition sources.

10.5 Chemically interacting Materials:

Combustibles.

10.6 Hazardous Decomposition Products:

Under normal storage and use conditions, no hazardous decomposition products will be generated.

SECTION 11: Toxicological information

11.1 Information on toxicological effects:

Acute toxicity (oral):

Not classified

Acute toxicity (dermal):

Not classified

Acute toxicity (inhalation):

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Not classified

dibenzoyl peroxide (94-36-0)

LD50 oral rat

5000 mg/kg (OECD401; Weight of Evidence)

LC50 Inhalation - Rat (Dust/mist)

> 24.3 mg/l/4h (OECD403; Experimental value)

ethylene glycol (107-21-1)

LD50 oral rat

7712 mg/kg body weight (in accordance with BASF internal standards, Rat, Male/female, Experimental value, Aqueous solution, Oral, 7 day(s))

LD50 dermal

> 3500 mg/kg body weight (Mouse, Male/female, Experimental value, Dermal)

LC50 Inhalation - Rat

> 3.75 mg/l/4h (> 2.5mg/l/6h, Rat, Male/female, Experimental value, Inhalation (aerosol))

Skin corrosion/irritation:

Not classified.

dibenzoyl peroxide (94-36-0)

pH: No data available in the literature

ethylene glycol (107-21-1)

pH: No data available in the literature

Serious eye damage/eye irritation:

Causes severe eye irritation.

dibenzoyl peroxide (94-36-0)

pH: No data available in the literature

ethylene glycol (107-21-1)

pH: No data available in the literature

Respiratory/skin sensitisation:

May cause allergic skin reaction.

Mutagenicity in gametes:

Not classified

Carcinogenicity:

Not classified.

ethylene glycol (107-21-1)

NOAEL (chronic, oral, animal/male, 2 years): 1500 mg/kg body weight Animal: mouse, Animal sex: male,

Remarks on results: other:Effect type: carcinogenicity (migrated information)

Reproductive toxicity:

Not classified.

STOT on single exposure:

Not classified

STOT on repeated exposure:

Not classified.

ethylene glycol (107-21-1)

STOT on repeated exposure: May cause damage to organs with prolonged or repeated exposure.

Inhalation hazard:

Not classified

dibenzoyl peroxide (94-36-0)

Viscosity, kinematic: No data available (test not performed)

ethylene glycol (107-21-1)

Viscosity, kinematic: No data available in the literature

11.2. Information on other hazards

No additional information available.

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SECTION 12: Ecological information

12.1 Toxicity:

Ecology - general:

Highly toxic to aquatic organisms, with long-term effects.

Short-term hazard to the aquatic environment (acute):

Highly toxic to aquatic organisms.

Aquatic hazard, long-term (chronic):

Highly toxic to aquatic organisms, with long-term effects.

Not rapidly degradable

dibenzoyl peroxide (94-36-0)

LC50 - Fish [1]

0.0602 mg/l (OECD 203: Fish: acute toxicity study, 96 h, Oncorhynchus mykiss, Semi-static system, Freshwater, Experimental value, GLP)

EC50 - Crustaceans [1].

0.11 mg/l (OECD 202: Acute immobilisation study on Daphnia sp., 48 h, Daphnia magna, Static system, Freshwater, Experimental value, GLP)

ErC50 algae

0.0711 mg/l (OECD 201: Algae: growth inhibition study, 72 h, Pseudokirchneriella subcapitata, Static system, Freshwater, Experimental value, GLP)

ethylene glycol (107-21-1)

LC50 - Fish [1]

> 72860 mg/l (EPA 600/4-90/027, 96 h, Pimephales promelas, Static system, Freshwater, Experimental value, Nominal concentration)

EC50 - Crustaceans [1].

> 100 mg/l (OECD 202: Acute immobilisation study on Daphnia sp., Daphnia magna, Static system, Fresh water, Experimental value)

ErC50 algae

6500 - 13000 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)

NOEC (chronic)

≥ 1000 mg/l Test organisms (species): Americamysis bahia (previous name: Mysidopsis bahia) Duration: '23 d'

12.2 Persistence and Degradability:

dibenzoyl peroxide (94-36-0)

Persistence and degradability

Readily biodegradable in water.

ethylene glycol (107-21-1)

Persistence and degradability

Biodegradable in soil.

Readily biodegradable in water.

Biochemical oxygen demand (BOD)

0.47 g O₂/g substance

Chemical oxygen demand (COD)

1.24 g O₂/g substance

ThZV

1.29 g O₂/g substance

12.3 Bioaccumulation:

dibenzoyl peroxide (94-36-0)

Partition coefficient n-octanol/water (Log Pow)

3.2 (Experimental value, OECD 117: Partition coefficient (n-octanol/water), HPLC method, 22°C)

Bioaccumulation

Low potential for bioaccumulation (Log Kow < 4).

ethylene glycol (107-21-1)

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Partition coefficient n-octanol/water (Log Pow)

-1.36 (Experimental value)

No potential for bioaccumulation.

12.4 Mobility in soil:

dibenzoyl peroxide (94-36-0)

Surface tension

No data available (test not performed)

Organic carbon normalised adsorption coefficient (Log Koc)

3.8 (log Koc, OECD 121: Estimation of the adsorption coefficient (Koc) to soil and to sewage sludge by high performance liquid chromatography (HPLC), Experimental value)

Ecology - soil

Little capacity for mobility in soil.

ethylene glycol (107-21-1)

Surface tension

48.4 mN/m (20°C)

Ecology - soil

Highly mobile in soil.

12.5 Results of PBT and vPvB assessment:

Component

dibenzoyl peroxide (94-36-0)

This substance/mixture does not meet the PBT criteria of the REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of the REACH regulation, annex XIII

ethylene glycol (107-21-1)

This substance/mixture does not meet the PBT criteria of the REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of the REACH regulation, annex XIII

12.6. Endocrine-disrupting properties

No additional information available.

12.7 Other Harmful Effects:

No additional information available.

SECTION 13: Disposal instructions

13.1 Waste treatment methods:

Waste treatment methods:

Dispose of contents/packaging in accordance with the sorting instructions of an authorised collection company.

Wastewater disposal recommendations:

Do not discharge into drains or the environment.

Ecology - wastes:

Avoid discharge into the environment.

EURAL code:

16 09 03* - peroxides, e.g. hydrogen peroxide

15 01 10* - packaging containing residues of or contaminated by dangerous substances

SECTION 14: Information relating to transport

14.1 UN number

ADR/ADN/RID, IMDG, IATA: UN 3108

14.2 Proper cargo name according to UN model regulations

ADR/ADN/RID: ORGANIC PEROXIDE, TYPE E, FIXED (dibenzoyl peroxide)

IMDG: ORGANIC PEROXIDE TYPE E, SOLID (dibenzoyl peroxide).

IATA: Organic peroxide type E, solid (dibenzoyl peroxide)

Transport document description:

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ADR: UN 3108 ORGANIC PEROXIDE, TYPE E, SOLID (dibenzoyl peroxide), 5.2, (D), ENVIRONMENTALLY DANGEROUS
ADN: UN 3108 ORGANIC PEROXIDE TYPE E, SOLID (dibenzoyl peroxide), 5.2, ENVIRONMENTALLY HAZARDOUS
RID: UN 3108 ORGANIC PEROXIDE, TYPE E, SOLID (dibenzoyl peroxide), 5.2, ENVIRONMENTALLY HAZARDOUS
IMDG: UN 3108 ORGANIC PEROXIDE TYPE E, SOLID (dibenzoyl peroxide), 5.2, MARINE
POLLUTANT/ENVIRONMENTALLY HAZARDOUS
IATA: UN 3108 Organic peroxide type E, solid (dibenzoyl peroxide), 5.2, ENVIRONMENTALLY HAZARDOUS

14.3 Transport hazard class(es)

ADR/ADN/RID: Class: 5.2
IMDG: Class: 5.2
IATA: Class: 5.2

14.4 Packing group

ADR/ADN/RID, IMDG, IATA: Not applicable

14.5 Environmental hazards

ADR/ADN/RID: Yes
IMDG: Yes
IATA: Yes

14.6 Special precautions for the user

Road transport

Classification code (ADR): P1
Special provisions (ADR): 122, 274
Limited quantities (ADR): 500g
Exempted quantities (ADR): E0
Packing instructions (ADR): P520
Regulations on mixed packing (ADR): MP4
Transport category (ADR): 2
Special provisions for transport - Packages (ADR): V1
Special provisions for transport - Loading, unloading and handling (ADR): CV15, CV22, CV24
Code for restrictions in tunnels (ADR): D

Transport at sea

Special provision (IMDG): 122, 274
Limited quantities (IMDG): 500 g
Excepted quantities (IMDG): E0
Packing instructions (IMDG): P520
No NS (Fire): F-J
No NS (Waste): S-R
Stowage category (IMDG): D
Stowage and handling (IMDG): SW1
Insulation (IMDG): SG35, SG36, SG72
Measures and observations (IMDG): Decomposes at elevated temperatures or in a fire. Burns vigorously. Insoluble in water. Contact with the eyes and skin should be avoided. May evolve irritant or toxic fumes.

Air transport

PCA Expected quantities (IATA): E0
PCA Limited quantities (IATA): Forbidden
PCA limited quantity max. net quantity (IATA): Forbidden

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PCA packaging requirements (IATA): 570
PCA max. net quantity (IATA): 10kg
CLA packaging requirement (IATA): 570
CLA max net quantity (IATA): 25kg
Special provisions (IATA): A20, A802
ERG code (IATA): 5L

Transport on inland waters

Classification code (ADN): P1
Special provision (ADN): 122, 274
Limited quantities (ADN): 500 g
Exceptional quantities (ADN): E0
Required equipment (ADN): PP, EX, A
Ventilation (ADN): VE01
Number of blue cones/lights (ADN): 0

Rail transport

Classification code (RID): P1
Special provision (RID): 122, 274
Restricted quantities (RID): 500g
Excepted quantities (RID): E0
Packaging instructions (RID): P520
Special regulations for joint packaging (RID): MP4
Transport category (RID): 2
Special provisions for transport - Packages (RID): W7
Special provisions for transport - Loading,
unloading and handling (RID): CW22, CW24, CW29
Express package (RID): CE10
Hazard identification number (RID): 539

14.7 Transport in bulk in accordance with Annex II to MARPOL 73/78 and the IBC Code

Information not applicable

SECTION 15: Statutory information

15.1 Safety, health and environmental regulations and legislation specific to the substance or mixture:

REACH list of restrictions (Annex XVII)

Reference code

3(a)

Applicable to

Polyester putty hardener

Indication or description

Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories in accordance with Annex I to EC Regulation 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, and 2.15 types A to F

Reference code

3(b)

Applicable to

Polyester putty hardener, ethylene glycol

Indication or description

Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories in accordance with Annex I to EC Regulation 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10

Reference code

3(c)

Applicable to

According to directive 1907/2006/EC, 2020/878
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Polyester putty hardener

Indication or description

Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories in accordance with Annex I to EC Regulation 1272/2008: Hazard Class 4.1

REACH Annex XIV (list of substances subject to authorisation)

Does not contain substance(s) included in REACH Annex XIV (list of substances subject to authorisation)

REACH candidate list (SVHC)

Does not contain substance(s) included in the REACH candidate list

PIC regulation (prior informed consent)

Does not contain any substances included in the PIC list (Regulation EU 649/2012 on export and import of dangerous chemicals)

POPs regulation (persistent organic pollutants)

Does not contain any substances included in the POPs list (Regulation EU 2019/1021 on organic pollutants)

Ozone regulation (1005/2009)

Does not contain substances included in the List of ozone-depleting substances (Regulation EU 1005/2009 on substances that deplete the ozone layer)

VOC directive (2004/42)

VOC content: 0 %.

Regulation on explosives precursors (2019/1148)

Does not contain substances included in the List of explosives precursors (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug precursors regulation (273/2004)

Does not contain substances included in the list of drug precursors (Regulation EC 273/2004 on the production and placing on the market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

National regulations

No additional information available

15.2 Chemical safety assessment:

No chemical safety assessment has been carried out.

SECTION 16: Other information

Indication of changes

Modified item:

in accordance with Regulation (EC) No 1907/2006 (REACH) with the additional Regulation (EU) 2020/878

Heading:

3.2

Abbreviations and acronyms:

ADN:	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE:	Acute toxicity estimate
BCF:	Bioconcentration factor
BLV:	Biological limit value
BOD:	Biochemical oxygen demand (BOD).
COD:	Chemical oxygen demand (COD)
DMEL:	Derived dose with minimal effect
DNEL:	Derived dose without effect
EC No	European Commission Number
EC50:	Median effective concentration
EN:	European standard

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IARC:	International Agency for Research on Cancer
IATA:	International Air Transport Association
IMDG:	International Maritime Dangerous Goods Code
LC50:	Concentration leading to death in 50% of a test population
LD50:	Dose leading to death in 50% of a test population (median lethal dose)
LOAEL:	Lowest dose or concentration at which an adverse effect was observed
NOAEC:	Concentration at which no adverse effect was observed
NOAEL:	Dose or concentration at which no adverse effect was observed
NOEC:	Concentration with no observed effects
OECD:	Organisation for Economic Co-operation and Development, OECD
OEL:	Occupational exposure limit
PBT:	Persistent, bioaccumulative and toxic substance
PNEC:	Predicted no-effect concentration(s)
RID:	Regulations concerning the International Carriage of Dangerous Goods by Rail
MSDS:	Safety Data Sheet
STP:	Water treatment plant
ThZV:	Theoretical oxygen demand (TZV).
TLM:	Median Tolerance Limit
VOCS:	Volatile organic compounds
CAS No:	Chemical Abstract Service - Number
N.E.G.:	Not Elsewhere Named
vPvB:	Very persistent and very bioaccumulative, vPvB
ED:	Endocrine disrupting properties

Integral text of sentences H and EUH:

Acute Tox. 4 (Oral):	Acute toxicity (oral), Category 4
Aquatic Acute 1:	Acute hazard to the aquatic environment, Category 1
Aquatic Chronic 1:	Chronic hazard to the aquatic environment, Category 1
Eye Irrit. 2:	Serious eye damage/eye irritation, Category 2
H241:	Risk of fire or explosion if heated.
H242:	Heating fire hazard.
H302:	Harmful if swallowed.
H317:	May cause an allergic skin reaction.
H319:	Causes severe eye irritation.
H373:	May cause damage to organs on prolonged or repeated exposure.
H400:	Very toxic to aquatic organisms.
H410:	Highly toxic to aquatic organisms with long-lasting effects.
Org. Perox. B:	Organic peroxides, type B
Org. Perox. E:	Organic peroxides, type E
Skin Sens. 1:	Skin sensitisation, Category 1
STOT RE 2:	Specific target organ toxicity by repeated exposure, Category 2

Classification and procedure used to determine the classification of mixtures in accordance with Regulation (EC) 1272/2008 [CLP]:

Org. Perox. E	H242	Expert evaluation
Eye Irrit. 2	H319	Calculation method
Skin Sens. 1	H317	Calculation method
Aquatic Acute 1	H400	Calculation method
Aquatic Chronic 1	H410	Calculation method

SAFETY DATA SHEET

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Safety data sheet (MSDS), EU

This information is based on our current knowledge and is intended to describe the product for the application of health, safety and environmental aspects. It should therefore not be construed as a guarantee of any specific property of the product.