

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 8 Sept 2023

Print date: 8 Sept 2023

Version: 0.2



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REDOCOL Hardener for 2K PE filler (white)

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

1.1. Product identifier

Trade name/designation:

REDOCOL Hardener for 2K PE filler (white)

Article No.:

8911

UFI:

V800-F0JP-U00J-NPDK

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

No data available

1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor):

Ostermann UK Ltd

Stonebridge Cross Business Park

Unit 104 Poynton Way

WR9 0LW Droitwich

United Kingdom

Telephone: UK +44 (0) 1905 793 550, Ireland +44 (0) 1905 793 552

Telefax: +44 (0) 1905 793 559

E-mail: UK sales.uk@ostermann.eu, Ireland sales.ie@ostermann.eu

Website: www.ostermann.eu

E-mail (competent person): j.bruns@ostermann.eu

1.4. Emergency telephone number

UK: Mr. J. Bruns +44 1905 793 550

IR: Mr. J. Bruns +44 1905 793 552, 24h: +49 30 - 30 68 67 00 (National Poison Inform. Centre Berlin) , UK +44 1905 793 550/ IR +44 (0)1905 793 552 (Only available during office hours.)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
Organic peroxides (<i>Org. Perox. E</i>)	H242: Heating may cause a fire.	
Respiratory or skin sensitisation (<i>Skin Sens. 1</i>)	H317: May cause an allergic skin reaction.	
Serious eye damage/eye irritation (<i>Eye Irrit. 2</i>)	H319: Causes serious eye irritation.	
Hazardous to the aquatic environment (<i>Aquatic Acute 1</i>)	H400: Very toxic to aquatic life.	
Hazardous to the aquatic environment (<i>Aquatic Chronic 1</i>)	H410: Very toxic to aquatic life with long lasting effects.	

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2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms:



GHS02
Flame



GHS07
Exclamation mark



GHS09
Environment

Signal word: Warning

Hazard statements for physical hazards

H242	Heating may cause a fire.
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Hazard statements for health hazards

H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.

Hazard statements for environmental hazards

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

Precautionary statements

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read carefully and follow all instructions.

Precautionary statements Prevention

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P220	Keep away from clothing and other combustible materials.

Precautionary statements Response

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

P410	Protect from sunlight.
P411 + P235	Store at temperatures not exceeding 50 °C/122 °F. Keep cool.

Precautionary statements Disposal

P501	Dispose of contents/container to Appropriate disposal.
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Special rules for supplemental label elements for certain mixtures:

Dibenzoylperoxid

2.3. Other hazards

No data available

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Description:

Mixture of following listed substances with nonhazardous additions.

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Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 94-36-0 EC No.: 202-327-6 Index No.: 617-008-00-0	dibenzoyl peroxide Eye Irrit. 2 (H319), Org. Perox. B (H241), Skin Sens. 1 (H317) Danger	50 - 70 weight-%
CAS No.: 107-21-1 EC No.: 203-473-3 Index No.: 603-027-00-1 REACH No.: 01-2119456816-28	Ethandiol Acute Tox. 4 (H302) Warning	5 - 7 weight-%

Full text of H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:

IF exposed or concerned, get medical advice. If unconscious but breathing normally, place in recovery position and seek medical advice.

Following inhalation:

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration.

In case of skin contact:

Remove contaminated, saturated clothing. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners.

After eye contact:

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Following ingestion:

IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

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

IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.

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

First Aid, decontamination, treatment of symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Jet of water spray; alcohol resistant foam; carbon dioxide (CO₂); extinguishing powder.
Class B fire extinguishers.

Unsuitable extinguishing media:

Full water jet.

5.2. Special hazards arising from the substance or mixture

Avoid breathing fume.

5.3. Advice for firefighters

Use suitable breathing apparatus. Do not allow run-off from fire-fighting to enter drains or water courses. Cool containers with water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:

Keep away from sources of ignition - No smoking. Ventilate affected area. Do not breathe gas.

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Protective equipment:

Use personal protection equipment.

6.1.2. For emergency responders

No data available

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

For containment:

Soak up inert absorbent and dispose as waste requiring special attention. Dispose of waste according to applicable legislation.

6.4. Reference to other sections

SECTION 7: Handling and storage.

SECTION 8: Exposure controls/personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

Avoid the formation of flammable or explosive solvent vapours in the air and exceed the AGW limit values. Only use the material in places where open light, fire and other flammable sources can be kept away. This material can accumulate static charge by flow or agitation and can be ignited by static discharge. Use only antistatically equipped (spark-free) tools. Never use pressure to empty container.

Fire prevent measures:

Vapours are heavier than air, spread along floors and form explosive mixtures with air.

Measures to prevent aerosol and dust generation:

Do not breathe dust/fume/gas/mist/vapours/spray.

Environmental precautions:

Do not allow to enter into surface water or drains.

Advices on general occupational hygiene

Wash hands before breaks and after work. When using do not smoke.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

Keep container tightly closed and in a well-ventilated place. Keep away from sources of ignition - No smoking. Use only outdoors or in a well-ventilated area.

Packaging materials:

Keep only in the original container in a cool, well-ventilated place.

Requirements for storage rooms and vessels:

Soils have to conform to the "Guidelines for avoidance of ignition hazards due to electrostatic charges (TRGS 727)".

Hints on storage assembly:

Do not store together with: strong base Strong acid, Oxidising agent, strong.

Storage class (TRGS 510, Germany): 5.2 - Organic peroxides and self-reactive substances

7.3. Specific end use(s)

Recommendation:

Observe technical data sheet. Observe instructions for use.

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
WEL (GB)	dibenzoyl peroxide CAS No.: 94-36-0 EC No.: 202-327-6	① 5 mg/m ³
IE	dibenzoyl peroxide CAS No.: 94-36-0 EC No.: 202-327-6	① 5 mg/m ³ ⑤ Sens
IE from 17 Jan 2020	Ethandiol CAS No.: 107-21-1 EC No.: 203-473-3	① 20 ppm (52 mg/m ³) ② 40 ppm (104 mg/m ³) ⑤ (may be absorbed through the skin) Sk, IOELV
IOELV (EU)	Ethandiol CAS No.: 107-21-1 EC No.: 203-473-3	① 20 ppm (52 mg/m ³) ② 40 ppm (104 mg/m ³) ⑤ (may be absorbed through the skin)
WEL (GB)	Ethandiol CAS No.: 107-21-1 EC No.: 203-473-3	① 20 ppm (52 mg/m ³) ② 40 ppm (104 mg/m ³) ⑤ (vapour, may be absorbed through the skin)
WEL (GB)	Ethandiol CAS No.: 107-21-1 EC No.: 203-473-3	① 10 mg/m ³ ⑤ (may be absorbed through the skin)

8.1.2. Biological limit values

No data available

8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
dibenzoyl peroxide CAS No.: 94-36-0 EC No.: 202-327-6	39 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
dibenzoyl peroxide CAS No.: 94-36-0 EC No.: 202-327-6	13.3 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
dibenzoyl peroxide CAS No.: 94-36-0 EC No.: 202-327-6	0.0034 mg/ cm ²	① DNEL worker ② Long-term - dermal, local effects
dibenzoyl peroxide CAS No.: 94-36-0 EC No.: 202-327-6	2 mg/kg bw/ day	① DNEL Consumer ② Long-term - oral, systemic effects
Ethandiol CAS No.: 107-21-1 EC No.: 203-473-3	35 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
Ethandiol CAS No.: 107-21-1 EC No.: 203-473-3	7 mg/m ³	① DNEL Consumer ② Long-term - inhalation, systemic effects
Ethandiol CAS No.: 107-21-1 EC No.: 203-473-3	106 mg/kg bw/ day	① DNEL worker ② Long-term - dermal, systemic effects

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Substance name	DNEL value	① DNEL type ② Exposure route
Ethandiol CAS No.: 107-21-1 EC No.: 203-473-3	53 mg/kg bw/ day	① DNEL Consumer ② Long-term - dermal, systemic effects
Substance name	PNEC Value	① PNEC type
dibenzoyl peroxide CAS No.: 94-36-0 EC No.: 202-327-6	0.02 µg/L	① PNEC aquatic, freshwater
dibenzoyl peroxide CAS No.: 94-36-0 EC No.: 202-327-6	0.002 µg/L	① PNEC aquatic, marine water
dibenzoyl peroxide CAS No.: 94-36-0 EC No.: 202-327-6	350 µg/L	① PNEC sewage treatment plant
dibenzoyl peroxide CAS No.: 94-36-0 EC No.: 202-327-6	0.0127 mg/kg	① PNEC sediment, freshwater
dibenzoyl peroxide CAS No.: 94-36-0 EC No.: 202-327-6	0.00127 mg/ kg	① PNEC sediment, marine water
dibenzoyl peroxide CAS No.: 94-36-0 EC No.: 202-327-6	0.0025 mg/kg	① PNEC soil
dibenzoyl peroxide CAS No.: 94-36-0 EC No.: 202-327-6	0.602 µg/L	① PNEC aquatic, intermittent release

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Use only outdoors or in a well-ventilated area. Respiratory protection necessary at: > Occupational exposure limit values. Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190). Use only respiratory protection equipment with CE-symbol including four digit test number.

8.2.2. Personal protection equipment

Eye/face protection:

In splash contact: Use of eye and face protection

Skin protection:

Repeated exposure may cause skin dryness or cracking. Suitable material: NBR (Nitrile rubber). Thickness of the glove material >0,4 mm, Permeation time (maximum wear duration):> 480 min. The selection of suitable gloves does not only depend on the material, but also on other quality characteristics and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. EN ISO 374. Use protective skin cream before handling the product.

Respiratory protection:

> Occupational exposure limit values: Use suitable breathing apparatus.

Other protection measures:

Body protection: Natural fibres (e.g. cotton), heat-resistant synthetic fibres.

8.2.3. Environmental exposure controls

No data available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: Liquid

Colour: white

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Odour: characteristic

Safety relevant basis data

Parameter	Value	at °C	① Method ② Remark
pH	No data available		
Melting point	No data available		
Freezing point	No data available		
Initial boiling point and boiling range	100 °C		② MSDS Distributor
Decomposition temperature	not determined		
Flash point	No data available		
Evaporation rate	No data available		
Auto-ignition temperature	555 °C		② MSDS Distributor
Upper/lower flammability or explosive limits	not determined		
Vapour pressure	No data available		
Vapour density	No data available		
Density	1.2 g/cm ³	20 °C	① Methode: DIN 53217 ② MSDS Distributor
Relative density	not determined		
Bulk density	not determined		
Water solubility	partially soluble		② MSDS Distributor
Partition coefficient: n-octanol/water	not determined		
Dynamic viscosity	10,000 mPa* s	2 °C	② MSDS Distributor
Kinematic viscosity	> 20.5 mm ² /s	20 °C	② MSDS Distributor
Solid content	84 weight-%		② MSDS Distributor

9.2. Other information

Solid content: 85 weight-%. Solvent content: 6 weight-%, Water: 10 weight-%

SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid

Materials to avoid: Strong acid, strong base Oxidising agent, strong.

10.5. Incompatible materials

No data available

10.6. Hazardous decomposition products

Thermal hazards. Carbon dioxide (CO₂), Carbon monoxide, Nitrogen oxides (NO_x).

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SECTION 11: Toxicological information

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

Ethandiol CAS No.: 107-21-1 EC No.: 203-473-3

LD₅₀ oral: 4,700 mg/kg (Ratte) Gigiena Truda i Professional'nye Zabolevaniya. Labor Hygiene and Occupational Diseases. Vol. 26(6), Pg. 28, 1982.

LD₅₀ dermal: 10,600 mg/kg (Kaninchen) Toxicology of Drugs and Chemicals, Deichmann, W.B., New York, Academic Press, Inc., 1969 Vol. -, Pg. 731, 1969

Skin corrosion/irritation:

May cause an allergic skin reaction.

Serious eye damage/irritation:

Causes serious eye irritation.

Respiratory or skin sensitisation:

> Occupational exposure limit values: Causes damage to liver if inhaled. Causes damage to kidneys if inhaled. Causes damage to heart if inhaled. central nervous system.

11.2. Information on other hazards

No data available

SECTION 12: Ecological information

12.1. Toxicity

dibenzoyl peroxide CAS No.: 94-36-0 EC No.: 202-327-6

EC₅₀: 0.11 mg/L 2 d (crustaceans)

EC₅₀: 0.0422 – 0.0711 mg/L 3 d (Algae/water plant)

Ethandiol CAS No.: 107-21-1 EC No.: 203-473-3

LC₅₀: 8,050 – 72,900 mg/L 4 d (fish, Ceriodaphnia dubia affinis) Mayes, M.A., H.C. Alexander, and D.C. Dill 1983. A Study to Assess the Influence of Age on the Response of Fathead Minnows in Static Acute Toxicity Tests. Bull. Environ. Contam. Toxicol. 31(2):139-147; Greene, M.W., and R.M. Kocan 1997. Toxicological Mechanisms of a Multicomponent Agricultural Seed Protectant in the Rainbow Trout (Oncorhynchus mykiss) and Fathead Minnow (Pimephales promelas). Can. J. Fish. Aquat. Sci. 54:1387-1390

LC₅₀: 6,900 – 1,000,000 mg/L 2 d (crustaceans, Daphnia magna) Gersich, F.M., F.A. Blanchard, S.L. Applegath, and C.N. Park 1986. The Precision of Daphnid (Daphnia magna Straus, 1820) Static Acute Toxicity Tests. Arch. Environ. Contam. Toxicol. 15(6):741-749; Cowgill, U.M., I.T. Takahashi, and S.L. Applegath 1985. A Comparison of the Effect of Four Benchmark Chemicals on Daphnia magna and Ceriodaphnia dubia affinis Tested at Two Different Temperatures. Environ. Toxicol. Chem. 4(3):415-422 (Author Communication Used)

Aquatic toxicity:

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

12.2. Persistence and degradability

dibenzoyl peroxide CAS No.: 94-36-0 EC No.: 202-327-6

Biodegradation: Yes, rapidly

Ethandiol CAS No.: 107-21-1 EC No.: 203-473-3

Biodegradation: Yes, rapidly

12.3. Bioaccumulative potential

dibenzoyl peroxide CAS No.: 94-36-0 EC No.: 202-327-6

Log K_{OW}: 3.2

Ethandiol CAS No.: 107-21-1 EC No.: 203-473-3

Log K_{OW}: -1.36

12.4. Mobility in soil

No data available

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12.5. Results of PBT and vPvB assessment

dibenzoyl peroxide CAS No.: 94-36-0 EC No.: 202-327-6

Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

Ethandiol CAS No.: 107-21-1 EC No.: 203-473-3

Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Endocrine disrupting properties

No data available

12.7. Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code product

08 01 11 * Waste paint and varnish containing organic solvents or other dangerous substances

*: Evidence for disposal must be provided.

Directive 2008/98/EC (Waste Framework Directive)

HP 4 Irritant – skin irritation and eye damage

Waste code packaging

15 01 04 metallic packaging

Directive 2008/98/EC (Waste Framework Directive)

HP 4 Irritant – skin irritation and eye damage

Waste treatment options

Appropriate disposal / Product:

Consult the appropriate local waste disposal expert about waste disposal.





Appropriate disposal / Package:

Non-contaminated packages may be recycled.

13.2. Additional information

Return to Distributor.

SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1. UN number or ID number			
UN 3108	UN 3108	UN 3108	UN 3108
14.2. UN proper shipping name			
ORGANIC PEROXIDE TYPE E, SOLID (dibenzoyl peroxide)	ORGANIC PEROXIDE TYPE E, SOLID (dibenzoyl peroxide)	ORGANIC PEROXIDE TYPE E, SOLID (dibenzoyl peroxide)	ORGANIC PEROXIDE TYPE E, SOLID (dibenzoyl peroxide)
14.3. Transport hazard class(es)			
 5.2	 5.2	 5.2	 5.2
14.4. Packing group			
II	II	II	II

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Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.5. Environmental hazards			
		MARINE POLLUTANT	
14.6. Special precautions for user			
Classification code: -	No data available	EmS-No.: F-J, S-R	No data available
Tunnel restriction code: (D)			

14.7. Maritime transport in bulk according to IMO instruments

No data available

SECTION 15: Regulatory information

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

15.1.1. EU legislation

Restrictions on use:

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Other regulations (EU):

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive], Hazard categories:

- P6b Self-reactive substances and mixtures, Type C, D, E or F, or organic peroxides, Type C, D, E or F
- E1 Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1

VOC product category: (Cat. B/b); VOC limit value: 250 g/l.

Maximum VOC content of the product in a ready to use condition: 250.

15.1.2. National regulations

No data available

15.2. Chemical Safety Assessment

No data available

SECTION 16: Other information

16.1. Indication of changes

No data available

16.2. Abbreviations and acronyms

ACGIH	American Conference of Governmental Industrial Hygienists
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
AGW	Threshold Limit Value
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
DIN	German Institute for Standardization / German Industrial Standard
DNEL	derived no-effect level
EC ₅₀	Effective Concentration 50%
ECHA	European Chemicals Agency
EN	European Standard
ES	Exposure scenario
EWC	European Waste Catalogue
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods

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IMO	International Maritime Organization
ISO	International Standards Organisation
KG	body weight
LC ₅₀	Lethal (fatal) Concentration 50%
LD ₅₀	Lethal (fatal) Dose 50%
MAK	Maximum concentration in the workplace air (CH)
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety & Health
OSHA	Occupational Safety & Health Administration
PBT	persistent and bioaccumulative and toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation and Authorization of Chemicals
RID	Dangerous goods regulations for transport by rail
TRGS	Technische Regeln für Gefahrstoffe
UN	United Nations

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

16.3. Key literature references and sources for data

No data available

16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
Organic peroxides (<i>Org. Perox. E</i>)	H242: Heating may cause a fire.	
Respiratory or skin sensitisation (<i>Skin Sens. 1</i>)	H317: May cause an allergic skin reaction.	
Serious eye damage/eye irritation (<i>Eye Irrit. 2</i>)	H319: Causes serious eye irritation.	
Hazardous to the aquatic environment (<i>Aquatic Acute 1</i>)	H400: Very toxic to aquatic life.	
Hazardous to the aquatic environment (<i>Aquatic Chronic 1</i>)	H410: Very toxic to aquatic life with long lasting effects.	

16.5. Relevant R-, H- and EUH-phrases (Number and full text)

Hazard statements	
H241	Heating may cause a fire or explosion.
H302	Harmful if swallowed.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.

16.6. Training advice

No data available

16.7. Additional information

The information provided in this safety data sheet is correct to the best of our knowledge at the time of going to press. This information is intended to provide guidance for the safe handling, storage, processing, transport and disposal of the product mentioned in this safety data sheet. The information is not transferable to other products. If the product is mixed with other materials, mixed or processed, or subjected to processing, the data contained in this safety data sheet can not be transferred to the new material thus produced unless otherwise expressly stated otherwise.