



Safety Data Sheet

according to Regulation (EU) No. 1907/2006

Cyclonox BT 50, red (145133-X)

Print date : 06.01.2008

Product code : 145133-X

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1. Identification of the substance/preparation and of the company/undertaking**Identification of the substance or preparation**

Cyclonox BT 50, red (145133-X)

Use of the substance/preparation

hardener

Company/undertaking identification

Company name : R&G Faserverbundwerkstoffe GmbH
Composite Technology
Place : D-71111 Waldenbuch
Telephone : +49-7157-530460
Telefax : +49-7157-530470
e-mail : info@r-g.de
Internet : www.r-g.de
Inquiry office : business management
Emergency telephone : poison information centre

2. Hazards identification**Classification**

Indications of danger : Oxidizing, Corrosive

R-phrases :

May cause fire.

Harmful if swallowed.

Causes burns.

3. Composition/information on ingredients**Chemical characterization (preparation)**

Cyclohexanonperoxid, Paste, 50% in Diisobutylphthalat

Hazardous components

EC-No.	CAS-No.	Chemical name	Quantity	Classification
201-091-1	78-18-2	1-hydroperoxycyclohexyl 1-hydroxycyclohexyl peroxide	35 - 55%	E, Xn, C R2-22-34
500-024-6	9016-45-9	Nonylphenoethoxylat (5)	3 - 7%	Xi R36-38-51-53

Full text of each relevant R phrase can be found in heading 16.

4. First aid measures**General information**

Take off immediately all contaminated clothing

Do not introduce anything into the mouth of an unconscious person. Take the injured person out of the danger area and lay him/her down.

In case of accident or if you feel unwell, seek medical advice immediately (show this label if possible).

After inhalation

Bring the patient out into the fresh air. Keep in a semi upright position. Immediately get medical attention.

After contact with skin

After contact with skin, wash immediately with soap and plenty of water.

After contact with eyes



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In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Damage caused to cornea and eye lids. Risk of serious eye injury.

After ingestion

Rinse mouth immediately and drink large quantities of water. Do not induce vomiting.
Move a vomiting patient lying on his back into a stable position on his side.
Immediately consult a doctor, presenting the packaging or label.

5. Fire-fighting measures

Suitable extinguishing media

Extinguish a minor fire with powder or carbon dioxide and afterwards use water to prevent reignition.
Cool affected receptacles with water.

Extinguishing media which must not be used for safety reasons

halons

Special exposure hazards arising from substance or preparation itself, combustion products, resulting gases

Carbon dioxide (CO₂).
Adipinsäure, Cyclohexanon

Special protective equipment for fire-fighters

Wear personal protection equipment. Wear breathing apparatus with own air supply.

Additional information

Fire residue and contaminated firefighting water must be disposed of in accordance with government regulations. Decomposition under the action of heat. In the event of fire the product promotes combustion. In case of fire and/or explosion do not breathe fumes.

6. Accidental release measures

Personal precautions

Use appropriate respiratory protection. Wear personal protection equipment.

Environmental precautions

Do not allow to enter the soil or subsoil. Do not allow to enter groundwater. Do not empty into drains or the aquatic environment.
Notify the responsible authority when the substance enters open water, the soil, or sewerage system.

Methods for cleaning up/taking up

Contain escaping material with a nonflammable, absorbent substance (e.g. sand, soil, kieselguhr, vermiculite). After about one hour collect in waste receptacles, but do not seal these (CO₂ formation).
Keep moist and leave at a secure outdoor location for several days.

Additional information

Never transfer other substances or waste to receptacles containing product residue. Keep receptacles with product residue at a secure location and dispose of these properly.

7. Handling and storage

Handling

Advice on safe handling

Wear personal protection equipment. Avoid contact with skin and eyes. When using do not eat, drink or smoke. Do not breathe dust.

Advice on protection against fire and explosion

Keep away from sources of heat and ignition. Do not keep the container sealed. Handle with caution - prevent shock, rubbing and blows. Self-igniting.

Further information on handling

Ventilate adequately storage and work rooms.



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Storage

Requirements for storage rooms and vessels

Keep away from food, drink and animal feeding stuffs. Ventilate adequately storage and work rooms. Protect against the effects of heat and direct sunlight. Store only in original container. Keep opened receptacles upright to prevent leakage.

Advice on storage compatibility

Keep separate from other hazardous and incompatible substances.

Further information on storage conditions

Do not store at temperatures over: 25°C

Storageclass (VCI) : 5.2

8. Exposure controls/personal protection

Exposure limit values

Exposure limits (EH40)

CAS No.	Substance	ml/m ³	mg/m ³	F/ml	Category	Origin
84-69-5	Diisobutyl phthalate	-	5		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL

Exposure controls

Occupational exposure controls

Ventilate adequately storage and work rooms.

Protective and hygiene measures

Wash hands before breaks and after work. Keep away from food, drink and animal feeding stuffs.

Respiratory protection

short-term filter equipment: Filter P1

Hand protection

After contact wash affected skin thoroughly.

Wear protective gloves.

Qualified materials: neoprene, rubber

Eye protection

Tightly sealed safety glasses.

face protection

Skin protection

Wear protective clothing.

Take off immediately all contaminated clothing Wash contaminated clothing prior to re-use.

9. Physical and chemical properties

General information

Physical state : Paste

Colour : red

Odour : weak

Important health, safety and environmental information

pH-Value :

schwache Säure

Test method

Changes in the physical state

Melting point :

-10 °C

Flash point :

45 °C



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Explosive properties

nein

Density (at 20 °C) :

1,07 g/cm³

Water solubility :

insoluble

Solubility in other solvents :

Acetate

10. Stability and reactivity

Conditions to avoid

Keep away from heat and ignition sources.

Stabile under the specified storage conditions.

Materials to avoid

Rost, Eisen, Kupfer, Säuren, Alkalien, Schwermetalle, Reduktionsmittel, Peroxidbeschleuniger

Hazardous decomposition products

Fire and decomposition may release irritant, caustic, ignitable, unhealthy, toxic gases and vapours.

Adipinsäure, Cyclohexanonperoxid

Additional information

thermal decomposition at:: ca. 45°C - SADT

11. Toxicological information

Acute toxicity

Cyclohexanonperoxid:

oral: 880 mg/kg (mouse.) LD50

inhalativ: >5 mg/l (rat) LC50

Diisobutylphthalat:

oral: >2.000 mg/kg (mouse.) LD50

Specific effects in experiment on an animal

The description of potential damaging effects is drawn from practical experience and/or the toxicological properties of individual constituents.

Corrosive and irritant effects

Cyclohexanonperoxid:

Irritant effect on the eye: strong irritant.

after skin contact: strong irritant.

Sensitising effects

Does not cause sensitisation on laboratory animals.

Additional information on tests

AMES test rat: not mutagenic.

12. Ecological information

Ecotoxicity

Fische: akute Toxizität

Danio rerio: LC50 (96h) 48 mg/l

Bakterien: Atmungsinhibierungstest für Belebtschlamm: EC50 11,1 mg/l

Green algae: EC50 (96h) 220 mg/l

Bioaccumulative potential

readily biodegradable

13. Disposal considerations

Advice on disposal

Dispose of waste according to applicable local, state, and federal regulations.



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14. Transport information

Land transport (ADR/RID)

UN number : 3106
ADR/RID class : 5.2
Warning plate
Hazard label : 5.2

Description of the goods

ORGANISCHES PEROXID TYP D, FEST

Marine transport

UN number : 3106
IMDG code : 5.2
IMDG packing group : 5.2
EmS : F-J, S-R

Description of the goods

ORGANISCHES PEROXID TYP D, SOLID

Air transport

UN/ID number : 3106
Hazard label : 5.2
ICAO packing group : 5.2

Description of the goods

ORGANISCHES PEROXID TYP D, SOLID

15. Regulatory information

Labelling

Danger symbols : C - Corrosive; O - Oxidizing

Hazardous component(s) to be indicated on label

Cyclohexanonperoxid, Paste, 50% in Diisobutylphthalat

R phrases

07 May cause fire.
22 Harmful if swallowed.
34 Causes burns.

S phrases

03 Keep in a cool place.
07 Keep container tightly closed.
14 Keep away from reducing substances (e.g. amines), acids, alkalis, and heavy metal compounds (e.g. accelerators, desiccants, metal soaps) .
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
36 Wear suitable protective clothing.
37 Wear suitable gloves.
39 Wear eye/face protection.
50 Do not mix with Peroxidbeschleunigern oder Reduktionsmitteln.

National regulatory information

Employment restrictions : Observe employment restrictions for young people.; Observe employment restrictions for child bearing mothers and nursing.

Water contaminating class : 2 - water contaminating

16. Other information



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Full text of R-phrases referred to under sections 2 and 3

- | | |
|----|--|
| 02 | Risk of explosion by shock, friction, fire or other sources of ignition. |
| 07 | May cause fire. |
| 22 | Harmful if swallowed. |
| 34 | Causes burns. |
| 36 | Irritating to eyes. |
| 38 | Irritating to skin. |
| 51 | Toxic to aquatic organisms. |
| 53 | May cause long-term adverse effects in the aquatic environment. |

Other data

All information, recommendations, and advice on the part of R&G Faserverbundwerkstoffe GmbH are published to the best of our knowledge and belief. They are noncommittal and contain neither explicit nor tacit assurance or warranty of particular properties. The values specified for properties are typical figures. Recommendations or advice serve to describe our products and possible applications in a general or exemplary, but not specifically individual manner. In the course of the constant technical advancement and improvement of our products there may be changes to the characteristic values, copy, and diagrams; no specific reference is made to any such change. Owing to our products' wide and highly diverse range of potential applications far beyond any of our attempts to analyse, the customer alone is responsible for examining our products' suitability for the respective processes and purposes and their respective processibility. All and any protective rights and the applicable laws, terms, and conditions must be observed by the buyer or user of our products at their own responsibility. Publication is not a licence and does not intend the violation of any patents.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)