

according to Regulation (EC) No 1907/2006

Cumene hydroperoxide, 70%, 25 ml

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

1.1. Product identifier

CAS No:

Index No:

EC No:

Cumene hydroperoxide, 70%, 25 ml 80-15-9 617-002-00-8 201-254-7

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

Use of the substance/mixture

Laboratory chemicals

1.3. Details of the supplier of the safety data sheet

Seller

Company name: CONATEX-DIDACTIC Lehrmittel GmbH

Street: Im Forstgarten 1
Place: D-66459 Kirkel
Internet: www.conatex.com

Supplier

Company name: Carbolution Chemicals GmbH Street: Im Stadtwald, Gebäude A1.2

Place: D-66123 Saarbrücken

Contact person: Dr. Michael Bauer Telephone: +49 (0)681 302-71232

e-mail: michael.bauer@carbolution-chemicals.de

Internet: www.carbolution-chemicals.de

1.4. Emergency telephone +49 (0)681 302-71232

number:

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Directive 67/548/EEC or 1999/45/EC

Indications of danger: O - Oxidizing, T - Toxic, C - Corrosive, Xn - Harmful, N - Dangerous for the

environment R phrases: May cause fire. Toxic by inhalation.

Harmful in contact with skin and if swallowed.

Harmful: danger of serious damage to health by prolonged exposure through inhalation and if

swallowed. Causes burns.

Toxic to aquatic organisms.

May cause long-term adverse effects in the aquatic environment.

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

Hazard categories:

Organic peroxide: Org. Perox. E Acute toxicity: Acute Tox. 3 Acute toxicity: Acute Tox. 4 Acute toxicity: Acute Tox. 4

Specific target organ toxicity - repeated exposure: STOT RE 2

Skin corrosion/irritation: Skin Corr. 1B



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Hazardous to the aquatic environment: Aquatic Chronic 2

Hazard Statements: Heating may cause a fire.

Toxic if inhaled.

Harmful in contact with skin.

Harmful if swallowed.

May cause damage to organs through prolonged or repeated exposure.

Causes severe skin burns and eye damage. Toxic to aquatic life with long lasting effects.

2.2. Label elements

Hazardous components which must be listed on the label

cumene hydroperoxide, alpha,alpha-dimethylbenzyl hydroperoxide

Signal word: Danger

Pictograms: GHS05-GHS06-GHS08-GHS09









Hazard statements

H302	Harmful if swallowed.
H311	Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

H330 Fatal if inhaled.

H335 May cause respiratory irritation.

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

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P310 Immediately call a POISON CENTER/doctor.
P314 Get medical advice/attention if you feel unwell.

SECTION 3: Composition/information on ingredients

3.1. Substances

Sum formula: C9H12O2 Molecular weight: 152,19

Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification according to Directive 67/548/EEC	
Index No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
201-254-7	cumene hydroperoxide, alpha,alpha-dimethylbenzyl hydroperoxide	100 %
80-15-9	O - Oxidizing, T - Toxic, C - Corrosive, Xn - Harmful, N - Dangerous for the environment R7-23-21/22-48/20/22-34-51-53	
617-002-00-8	Org. Perox. E, Acute Tox. 3, Acute Tox. 4, Acute Tox. 4, STOT RE 2, Skin Corr. 1B, Aquatic Chronic 2; H242 H331 H312 H302 H373 ** H314 H411	

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

SECTION 4: First aid measures



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4.1. Description of first aid measures

General information

First aider: Pay attention to self-protection! Move victim out of danger zone.

After inhalation

Provide fresh air. In case of breathing difficulties administer oxygen. No mouth-to-mouth or mouth-to-nose resuscitation. Use Ambu bag or ventilator. Call a physician immediately.

After contact with skin

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Medical treatment necessary.

After contact with eves

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

After ingestion

Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Potential hazards: Stomach perforation. Call a physician immediately. Do not allow a neutralisation agent to be drunk.

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

No data available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

5.2. Special hazards arising from the substance or mixture

The product itself does not burn. Vapours may form explosive mixtures with air.

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protective suit.

Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Wear personal protection equipment.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

Soak up inert absorbent and dispose as waste requiring special attention. Unsuitable material for taking up: Combustible solids

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

Advice on protection against fire and explosion

Keep away from sources of ignition. - No smoking.



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7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaustion at critical locations. Keep in a cool place. Keep away from sources of ignition. - No smoking.

Advice on storage compatibility

Keep away from combustible material.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.2. Exposure controls

Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

Protective and hygiene measures

Remove contaminated, saturated clothing immediately. Protect skin by using skin protective cream. After work, wash hands and face. When using do not eat or drink.

Eye/face protection

Eye protection: Tightly sealed safety glasses. German Industry Norms (DIN) / European Norms (EN): DIN EN 166

Hand protection

Hand protection: Single-use gloves. Before using check leak tightness / impermeability. Use gloves only once. German Industry Norms (DIN) / European Norms (EN): DIN EN 374

Skin protection

Body protection: Lab apron. Only wear fitting, comfortable and clean protective clothing.

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Suitable respiratory protective equipment: particulates filter device (DIN EN 143).

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: liquid
Colour: light yellow
Odour: No data available

Test method

pH-Value: No data available

Changes in the physical state

Initial boiling point and boiling range:

Sublimation point:

No data available

Softening point:

No data available

Flash point:

79 °C

Flammability

Solid: No data available
Gas: No data available
Lower explosion limits: No data available



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No data available

Upper explosion limits:

Ignition temperature:

No data available

No data available

Auto-ignition temperature

Solid: No data available
Gas: No data available

Vapour pressure: 0,5 hPa

(at 55 °C)

Vapour pressure:No data availableDensity (at 25 °C):1,03 g/cm³Water solubility:No data available

Viscosity / dynamic:
Viscosity / kinematic:
No data available
No data available
No data available
Vapour density:
5,25

Evaporation rate:

Solvent separation test:

No data available

No data available

No data available

No data available

9.2. Other information

Partition coefficient:

Solid content: No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid

In case of impact or pressure influence: Explosion hazard. Remove all sources of ignition. Keep away from heat. Ignition hazard.

10.5. Incompatible materials

Oxidizing agents, strong.

10.6. Hazardous decomposition products

No data available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicocinetics, metabolism and distribution

Toxicological data are not available.

Acute toxicity

Toxic. Acute toxicity, oral. Acute toxicity, inhalant. Acute toxicity, dermal.



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	Exposure routes	Method	Dose	Species	Source	
80-15-9	cumene hydroperoxide, alpha,alpha-dimethylbenzyl hydroperoxide					
	oral	LD50	382 mg/kg	Ratte		
	dermal	LD50	500 mg/kg	Ratte		
	inhalative (4 h) vapour	LC50	1,4 mg/l	Ratte		
	inhalative (0 h) aerosol	ATE	0,5 mg/l			

Irritation and corrosivity

after ingestion: Irritant and corrosive effects. Potential hazards: Stomach perforation.

Sensitising effects

No data available

Severe effects after repeated or prolonged exposure

No data available

Carcinogenic/mutagenic/toxic effects for reproduction

Due to missing data no statement can be made whether the substance fullfills the criteria of CMR categories 1 or 2. Practical experiences do not give any evidence for CMR activity of categories 1 or 2.

Specific effects in experiment on an animal

No data available

Additional information on tests

The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

Practical experience

Observations relevant to classification

No data available

SECTION 12: Ecological information

12.1. Toxicity

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

No data available

12.6. Other adverse effects

No data available

Further information

Do not allow to enter into surface water or drains. The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.



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Waste disposal number of waste from residues/unused products

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded

chemicals; laboratory chemicals, consisting of or containing dangerous substances, including mixtures

of laboratory chemicals

Classified as hazardous waste.

Waste disposal number of used product

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded

chemicals; laboratory chemicals, consisting of or containing dangerous substances, including mixtures

of laboratory chemicals

Classified as hazardous waste.

Waste disposal number of contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE

CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by dangerous substances

Classified as hazardous waste.

Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number: UN3109

14.2. UN proper shipping name: ORGANIC PEROXIDE TYPE F, LIQUID

14.3. Transport hazard class(es):5.2Hazard label:5.2Classification code:P1Special Provisions:122 274Limited quantity:125 mLTransport category:2Hazard No:539

Other applicable information (land transport)

ΕO

Tunnel restriction code:

Inland waterways transport (ADN)

14.1. UN number: UN3109

14.2. UN proper shipping name: ORGANIC PEROXIDE TYPE F, LIQUID

14.3. Transport hazard class(es):5.2Hazard label:5.2Classification code:P1Special Provisions:122 274Limited quantity:125 mL

Other applicable information (inland waterways transport)

E0

Marine transport (IMDG)

14.1. UN number: UN3109

14.2. UN proper shipping name: ORGANIC PEROXIDE TYPE F, LIQUID

14.3. Transport hazard class(es): 5.2 14.4. Packing group: -



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Hazard label: 5.2

Special Provisions: 122, 274, 323
Limited quantity: 125 mL
EmS: F-J, S-R

Other applicable information (marine transport)

E0

Air transport (ICAO)

14.1. UN number: UN3109

14.2. UN proper shipping name: ORGANIC PEROXIDE TYPE F, LIQUID

14.3. Transport hazard class(es): 5.2 Hazard label: 5.2

Special Provisions: A20 A150 A802 Limited quantity Passenger: Forbidden

IATA-packing instructions - Passenger:570IATA-max. quantity - Passenger:10 LIATA-packing instructions - Cargo:570IATA-max. quantity - Cargo:25 L

Other applicable information (air transport)

E0

: Forbidden

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: yes

SECTION 15: Regulatory information

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

EU regulatory information

2004/42/EC (VOC): 100 %

Additional information

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

National regulatory information

Water contaminating class (D): 2 - water contaminating

SECTION 16: Other information

Relevant R-phrases (Number and full text)

07 May cause fire.

21/22 Harmful in contact with skin and if swallowed.

Toxic by inhalation.
Causes burns.

48/20/22 Harmful: danger of serious damage to health by prolonged exposure through inhalation and if

swallowed.

Toxic to aquatic organisms.

May cause long-term adverse effects in the aquatic environment.

Relevant H- and EUH-phrases (Number and full text)

H242 Heating may cause a fire.
H302 Harmful if swallowed.
H311 Toxic in contact with skin.
H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.



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H330	Fatal if inhaled.			
H331	Toxic if inhaled.			
H335	May cause respiratory irritation.			
H373	May cause damage to organs through prolonged or repeated exposure.			
H411	Toxic to aquatic life with long lasting effects.			