



Specialized in chemicals

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Material Safety Data Sheet

Cumyl hydroperoxide

Section 1: Chemical Product and Company Identification

Molecular formula: C₉H₁₂O₂

CAS Nr: 80-15-9

EINECS: 201-254-7

Synonyms:

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Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	%By Weight
Cumyl hydroperoxide	80-15-9	100

Toxicological Data on Ingredients: Not applicable.

Section 3: Hazards Identification

Not available.

Target Organs: Respiratory system, eyes, skin.

Potential Health Effects

Eye: Causes eye burns.

Skin: Harmful if absorbed through the skin. Causes skin burns. Ingestion: Harmful if swallowed. Causes gastrointestinal tract burns.

Inhalation: Causes chemical burns to the respiratory tract. Toxic if inhaled. May cause respiratory difficulty .

Section 4: First Aid Measures

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin: Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion: Do not induce vomiting. Get medical aid. Wash mouth out with water.

Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician: Treat symptomatically and supportively.

Section 5: Fire and Explosion Data

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin: Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion: Do not induce vomiting. Get medical aid. Wash mouth out with water.

Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician: Treat symptomatically and supportively.

Section 6: Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Remove all sources of ignition.

Section 7: Handling and Storage

Handling: Do not breathe dust, mist, or vapor. Do not get in eyes, on skin, or on clothing. Use only in a chemical fume hood. Avoid mechanical shock and friction.

Storage: Keep away from sources of ignition. Do not store near combustible materials. Store in a tightly closed container. Store in a dry area. Keep refrigerated. (Store below 4/39.) Keep away from reducing agents.

Section 8: Exposure Controls/Personal Protection

Engineering Controls: Use explosion-proof ventilation equipment. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Cumyl hydroperoxide	none listed	none listed	none listed

OSHA Vacated PELs: Cumyl hydroperoxide: No OSHA Vacated PELs are listed for this chemical. Personal

Protective Equipment

Eyes: Not available.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9: Physical and Chemical Properties

Physical State: Liquid

Appearance: slightly yellow

Odor: pungent odor

pH: Not available.

Vapor Pressure: Not available.

Vapor Density: Not available.

Evaporation Rate:Not available.

Viscosity: Not available.

Boiling Point: Not available.

Freezing/Melting Point:-30 deg C

Decomposition Temperature:Not available.

Solubility: Miscible.

Specific Gravity/Density:1.060

Molecular Formula:C₉H₁₂O₂

Molecular Weight:152.19

Section 10: Stability and Reactivity Data

Chemical Stability: A dangerous self-accelerating decomposition reaction and, under certain circumstances, explosion or fire can be caused by direct contact with incompatible substances or by thermal decomposition at and above the SADT (see Section 16).

Conditions to Avoid: Incompatible materials, ignition sources, combustible materials. Incompatibilities with Other Materials: Reducing agents, acids, bases, rust, heavy metals. Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, methane. Hazardous Polymerization: Has not been reported

Section 11: Toxicological Information

RTECS#:

CAS# 80-15-9: MX2450000

LD50/LC50:

CAS# 80-15-9:

Draize test, rabbit, eye: 1 mg;

Draize test, rabbit, eye: 70%;

Draize test, rabbit, skin: 500 mg;

Draize test, rabbit, skin: 500 mg Mild;

Inhalation, mouse: LC50 = 200 ppm/4H;

Inhalation, rat: LC50 = 220 ppm/4H;

Oral, mouse: LD50 = 342 mg/kg;
Oral, rat: LD50 = 382 mg/kg;
Oral, rat: LD50 = 800 mg/kg;
Skin, rat: LD50 = 500 mg/kg; .
Carcinogenicity:
CAS# 80-15-9: Not listed by ACGIH, IARC, NTP, or CA Prop 65.
Epidemiology: No data available.
Teratogenicity: No data available.
Reproductive Effects: No data available.
Mutagenicity: No data available.
Neurotoxicity: No data available.
Other Studies:

Section 12: Ecological Information

Ecotoxicity: No data available. No information available.
Environmental: No information available.
Physical: No information available.
Other: Do not empty into drains.

Section 13: Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.
RCRA P-Series: None listed.
RCRA U-Series:
CAS# 80-15-9: waste number U096 (Reactive waste)

Section 14: Transport Information

US Department of Transportation:
Shipping name: ORGANIC PEROXIDE TYPE F, LIQUID
Hazard class: 5.2
UN Number: UN3109
Packing Group: II

Section 15: Other Regulatory Information

US FEDERAL
TSCA
CAS# 80-15-9 is listed on the TSCA inventory.
Health & Safety Reporting List
CAS# 80-15-9: Effective 3/7/86, Sunset 12/19/95
Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

CERCLA Hazardous Substances and corresponding RQs

CAS# 80-15-9: 10 lb final RQ; 4.54 kg final RQ

SARA Section 302 Extremely Hazardous Substances

None of the chemicals in this product have a TPQ. Section 313 Cumyl hydroperoxide is not at a high enough concentration to be reportable under

Section 313.

No chemicals are reportable under Section 313.

Clean Air Act:

This material does not contain any hazardous air pollutants. This material does not contain any Class 1 Ozone depleters. This material does not contain any Class 2 Ozone depleters.

Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA:

CAS# 80-15-9 is considered highly hazardous by OSHA.

STATE

CAS# 80-15-9 can be found on the following state right to know lists: New Jersey, Pennsylvania, Massachusetts.

California Prop 65

California No Significant Risk Level: None of the chemicals in this product are listed.

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols:

T O N

Risk Phrases:

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

R 23 Toxic by inhalation.

R 34 Causes burns.

R 7 May cause fire.

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

R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrases:

S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S 14A Keep away from acids, reducing agents and polymerisation catalysts.

S 61 Avoid release to the environment. Refer to special instructions /safety data sheets.

S 3/7 Keep container tightly closed in a cool, well-ventilated place

WGK (Water Danger/Protection)

CAS# 80-15-9: 2

Canada - DSL/NDSL

CAS# 80-15-9 is listed on Canada's DSL List.

Canada – WHMIS

WHMIS: Not available.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

Canadian Ingredient Disclosure List

CAS# 80-15-9 is listed on the Canadian Ingredient Disclosure List.

Section 16: Other Information

References: Not available.

Other Special Considerations: Not available.

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The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall we m be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if we have been advised of the possibility of such damages.