

Product name: CHP - 158

MSDS Number: 500000000554

Revision: 1.2 01/30/2001

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EMERGENCY OVERVIEW

WARNING!

MAY BE HARMFUL OR FATAL IF SWALLOWED.

MAY CAUSE ALLERGIC SKIN REACTION.

MAY BE IRRITATING OR CORROSIVE TO THE SKIN AND/OR EYES.

POTENTIAL HEALTH EFFECTS

Swallowing

Acute effects

Harmful or fatal if swallowed.

Skin absorption

Acute effects

May cause eye and skin irritation.

Inhalation

Acute effects

May be harmful by inhalation.

Skin contact

Acute effects

May cause allergic skin reaction.

Eye contact

Acute effects

May cause chemical burns of the eye.

POTENTIAL ENVIRONMENTAL EFFECTS

This product is stable in water, and can be mechanically separated from water. The water may be suitable for disposal in a biological waste water treatment plant.

4. FIRST AID MEASURES

Swallowing

Obtain medical attention. If patient is fully conscious, rinse mouth with water. Give water to drink. Drink water in small sips. (Diluting effect) Never give anything by mouth to an unconscious person. Vomiting may cause aspiration into the lungs resulting in chemical pneumonia.

Skin

Remove contaminated clothing. Wash skin with soap and water. If irritation persists or if contact has been prolonged, obtain medical attention.



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Inhalation

Remove to fresh air. If exposure is severe, hospitalize and observe. If breathing has stopped, give artificial respiration.

Eye contact

Immediately flush eyes with water and continue washing for at least 15 minutes. Obtain medical attention immediately. May cause blindness.

Notes to physician

ROUTES OF ENTRY: Eyes, skin, ingestion, inhalation, mist. TARGET ORGANS: Eyes, skin, respiratory system.

5. FIRE-FIGHTING MEASURES

Flash point: 72 °C

Autoignition temperature: Not determined

NFPA CLASSIFICATION

Health: 3	Flammability: 2	Reactivity: 2	Special provisions: -
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Special fire fighting procedures

Evacuate all personnel from danger area. Use water spray to cool fire-exposed containers and structures.

Special protective equipment for firefighters

Body covering protective clothing. Self-contained breathing apparatus.

Extinguishing media

Suitable:

- water fog
- foam
- CO2
- dry chemical
- dry sand

Unusual fire and explosion hazards

Other harmful gases and vapors may be formed in addition to the major combustion products of carbon dioxide and carbon monoxide. There is a potential for an explosive decomposition in a fire situation. Once ignited, this product will burn vigorously and with acceleration.

6. ACCIDENTAL RELEASE MEASURES



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Personal precautions

Avoid contact with eyes and skin. Avoid contact with liquid and vapors. Provide sufficient ventilation.

Environmental precautions

Avoid runoff to sewers or waterways. This product has limited solubility in water.

Methods for cleaning up

Stop the leak if it can be done without risk.

Dike to contain spill.

Absorb on inert material such as sand, earth, vermiculite.

Cover by foam or wet with small quantities of water.

Sweep up using non-sparking equipment.

Collect in a suitable container for disposal.

Storage material: Polypropylene, polyethylene

Dispose of waste material in compliance with all federal, state, and local regulations.

7. HANDLING AND STORAGE

HANDLING

Handling precautions

Keep containers tightly closed to prevent contamination. Avoid contact with eyes, skin and clothing. Do not eat, drink or smoke when handling. Wear recommended personal protection equipment. Remove contaminated clothing and wash before reuse. Use spark-proof tools and explosion-proof equipment.

Other precautions

Store containers in a well-ventilated area. Open them cautiously, in case they may be under slight pressure. Have good ventilation and suitable protective equipment in areas where containers will be opened.

Keep away from heat, sparks and flame.

Do not expose to direct sunlight.

STORAGE

Storage requirements

Regulated as an Organic Peroxide, Class 5.2, for storage and handling. Store in original containers away from incompatible materials, direct sunlight, flames, and all sources of heat.

Further information on storage

Maximum Storage Temperature: 38 °C (100 °F). In order to maintain the product's original manufactured assay in long term storage, a lower storage temperature of below 30 °C (86 °F) is strongly recommended. Shelf Life:

(Calculated from half-life data in benzene solution) Estimate > 48 months at which 95% of the original manufactured assay remains when stored at or below 30 °C (86 °F).



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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

PERSONAL PROTECTION

Respiratory protection

None required in normal use. Self-contained breathing apparatus may be needed if product is used in a confined or poorly ventilated area.

Hand protection / protective gloves

Neoprene type gloves.

Eye protection

Wear suitable eye protection.

Faceshield

Safety goggles.

Contact lenses should not be worn.

Skin protection

Wear protective clothing.

Apron/boots of neoprene if risk of splashing

ENGINEERING CONTROLS

Ventilation

General (mechanical) room ventilation is expected to be satisfactory.

EXPOSURE LIMITS

<u>Component</u>	<u>Type</u>	<u>Value</u>	<u>Remark</u>
cumene	TWA - ACGIH	50.0 ppm	
	TWA (skin), OSHA	246.0 mg/m ³	
		50.0 ppm	

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

Physical state

Liquid

Color

Colorless to light yellow

OTHER PROPERTIES

Boiling point

53 °C at STP unless specified below.

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	at 0.1 mmHg
Melting point	-10 °C at STP unless specified below.
pH	Not applicable.
Specific gravity (H2O=1)	1.03 at 25 °C
Vapor pressure	Not determined
Vapor density (air=1)	Not determined
Solubility in water	Negligible
Flash point	72 °C Method: Setaflash closed cup ASTM D 3828
Autoignition temperature	Not determined

10. STABILITY AND REACTIVITY

Stability: This product is stable only when stored at, or below, the recommended maximum temperature. (see section 7)

SADT

Value: 75 °C

Remark: 200 # Package

Stability - Conditions to avoid

Contamination with ANY foreign substance,

Exposure to heat

Protect from direct sunlight.

Incompatible materials

Strong acids.

Reducing agents.

Accelerators

Promoters

Other reactive chemicals

Hazardous combustion products

Carbon monoxide.

Carbon dioxide.

Hydrocarbons.

Hazardous polymerization: Will not occur.

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11. TOXICOLOGICAL INFORMATION

SWALLOWING

Test results

Acute toxicity: Test substance: 73% wt cumene hydroperoxide
LD50 - Rat
Result: 382 mg/kg

SKIN ABSORPTION

Test results

Acute toxicity: Test substance: 73% wt cumene hydroperoxide
LD50 - Rabbit
Result: > 200 mg/kg

INHALATION

Test results

Acute toxicity: Test substance: 73% wt cumene hydroperoxide
LC50 - Rat
Result: 220 PPM (nominal conc., 4hr. exposure)
Exposure time: 4 h

SKIN CONTACT

Test results

Skin irritation: Species: Rabbit
Exposure time: 24 h
Result: Corrosive.

EYE CONTACT

Test results

Eye irritation: Species: Rabbit
Remark: No data available.
Severe eye injury expected

SENSITIZATION



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Test results: Remark: No data available.
No irritation expected.

12. ECOLOGICAL INFORMATION

This product is stable in water, and can be mechanically separated from water. The water may be suitable for disposal in a biological waste water treatment plant.

13. DISPOSAL CONSIDERATIONS

US waste

Dispose of waste material in compliance with all federal, state, and local regulations. Hazardous waste identification number D003, characteristic of reactivity (see 40CFR261.23).

14. TRANSPORT INFORMATION

DOT Classification

Proper shipping name: ORGANIC PEROXIDE TYPE F, LIQUID (CUMYL HYDROPEROXIDE, =< 90%)
Class: 5.2
Subsidiary risk: SUBSIDIARY RISK 8
UN ID #: UN3109
Packing group: II

15. REGULATORY INFORMATION

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires submission of annual reports of release of toxic chemicals that appear in 40CFR372 (for SARA 313). This information must be included in MSDS's that are copied and distributed for this material.

Components present in this product at a level which could require reporting under the statute are:

Chemical name	CAS#	Max weight %
cumene hydroperoxide	80-15-9	90.00
cumene	98-82-8	10.00

New Jersey Worker and Community Right-To-Know Act (Labeling Requirements)

Chemical name	CAS#	New Jersey TS Number
cumene hydroperoxide	80-15-9	
cumene	98-82-8	

CHEMICAL INVENTORY



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Canada: The ingredients of this product are on the DSL.

Europe: The ingredients of this mixture are on the EINECS inventory.

United States: The ingredients of this product are on the TSCA inventory.

Australia: The ingredients of this product are on the AICS inventory.

16. OTHER INFORMATION

FURTHER INFORMATION

Dust generated from the sanding or finishing of certain types of hardened resins can spontaneously combust if stored or disposed of improperly. Consult your resin manufacturer for proper dust storage and disposal.

HMIS RATING

Health: 3	Flammability: 2	Reactivity: 2	PPI: -
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LEGEND

STP	Standard temperature and pressure
W/W	Weight/Weight
0 (HMIS)	Minimal hazard
1 (HMIS)	Slight hazard
2 (HMIS)	Moderate hazard
3 (HMIS)	Serious hazard
4 (HMIS)	Severe hazard
X (HMIS)	Personal protection rating to be supplied by user depending on use conditions

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