



Registered Off. : 101-A, Deep Enclave, Pocket 'D', Ashok Vihar, Phase-III, Delhi-110 052 (India)
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CYCLOHEXANOL

1. Product Identification

Synonyms: Cyclohexyl alcohol; Hexalin; Hydralin; Hexahydrohpenol; Hydroxycyclohexanol

CAS No.: 108-93-0

Molecular Weight: 100.16

Chemical Formula: $C_6H_{11}OH$

Product Code : 39333

2. Composition/Information on Ingredients

Ingredient	CAS No	Percent
Cyclohexanol	108-93-0	100%

3. Hazards Identification

Potential Health Effects

Inhalation: Vapors can be irritating. Can cause nausea and tremors.

Ingestion: Ingestion causes vomiting and gagging. Large doses may cause nervous depression without convulsions.

Skin Contact: Can defat tissues similar to gasoline. Can cause mild irritation.

Eye Contact: Vapors can irritate the eyes. Splashes can cause severe irritation and pain.

Chronic Exposure: Repeated or prolonged skin contact may cause dermatitis. Based on animal studies, may cause liver, kidney and vascular injury.

Aggravation of Pre-existing Conditions: Persons with pre-existing skin disorders or eye problems, or impaired liver, kidney or respiratory function may be more susceptible to the effects of the substance.

4. First Aid Measures

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

Ingestion: Give large amounts of water to drink. Never give anything by mouth to an unconscious person. Get medical attention.

Skin Contact: Remove any contaminated clothing. Wash skin with soap or mild detergent and water for at least 15 minutes. Get medical attention if irritation develops or persists.

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately. Do not use oily drops or ointment.

Note to Physician: Monitor respiratory status, airway, kidney, liver, and cardiac function. Diagnostic test: Cyclohexanol in urine. Treat supportively.

5. Fire Fighting Measures

Fire: Flash point: 63C (145F) CC

Autoignition temperature: 300C (572F)

Combustible. Fire hazard when exposed to heat or flame.

Explosion: Above the flash point, explosive vapor-air mixtures may be formed.



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Fire Extinguishing Media: Water spray, dry chemical, alcohol foam, or carbon dioxide. Water spray may be used to keep fire exposed containers cool.

Special Information: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.

6. Accidental Release Measures

Ventilate area of leak or spill. Remove all sources of ignition. Wear appropriate personal protective equipment as specified in Section 8. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Contain and recover liquid when possible. Use non-sparking tools and equipment. Collect liquid in an appropriate container or absorb with an inert material (e. g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as saw dust. Do not flush to sewer!

7. Handling and Storage

Protect against physical damage. Outside or detached storage is preferred. Inside storage should be in a standard flammable liquids storage room or cabinet. Separate from oxidizing materials. Storage and use areas should be No Smoking areas. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warnings and precautions listed for the product.

8. Exposure Controls/Personal Protection

Airborne Exposure Limits:

-OSHA Permissible Exposure Limit (PEL):

50 ppm (TWA)

-ACGIH Threshold Limit Value (TLV):

50 ppm (TWA) skin

Ventilation System: A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.

Personal Respirators (NIOSH Approved): If the exposure limit is exceeded and engineering controls are not feasible, a half-face organic vapor respirator may be worn for up to ten times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. A full-face piece organic vapor respirator may be worn up to 50 times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. For emergencies or instances where the exposure levels are not known, use a full-face piece positive-pressure, air-supplied respirator.

Skin Protection: Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Eye Protection: Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.

9. Physical and Chemical Properties

Appearance: `Clear, colorless liquid to hygroscopic crystals.

Odor: Camphor / Menthol odor

Solubility: 4 g/100 gm water @ 20C (68F)

Specific Gravity: 0.96

pH: No information found.

% Volatiles by volume @ 21C (70F): 100

Boiling Point: 161C (322F)

The information contained herein in good faith but makes no representations as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. We do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.



Melting Point: 25C (77F)
Vapor Density (Air=1): 3.5
Vapor Pressure (mm Hg): 0.975 @ 20C (68F)
Evaporation Rate (BuAc=1): 0.08

10. Stability and Reactivity

Stability: Stable at room temperature in sealed containers. Heat will contribute to instability.
Hazardous Decomposition Products: Carbon dioxide and carbon monoxide may form when heated to decomposition.
Hazardous Polymerization: Will not occur.
Incompatibilities: Strong oxidizers, nitric acid, chromium trioxide, and hydrogen peroxide.
Conditions to Avoid: Heat, flame, ignition sources, temperatures below 77F and incompatibles.

11. Toxicological Information

LD50 Oral rat: 2060 mg/kg; Irritation: Skin, open, rabbit: 14600 ug/24H Mild; Eye, rabbit: 2 mg Severe; Investigated as a mutagen and reproductive effector.

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---NTP Carcinogen---

Ingredient	Known	Anticipated	IARC Category
Cyclohexanol (108-93-0)	No	No	None

12. Ecological Information

Environmental Fate: When released into the soil, this material is expected to readily biodegrade. When released into the soil, this material is expected to leach into groundwater. When released into the soil, this material is expected to quickly evaporate. When released into the water, this material is expected to have a half-life of less than 1 day. This material has a log octanol-water partition coefficient of less than 3.0. When released to water, this material is expected to quickly evaporate. This material is not expected to significantly bioaccumulate. When released into the air, this material is expected to have a half-life of less than 1 day. When released into the air, this material is expected to be readily degraded by reaction with photochemically produced hydroxyl radicals.
Environmental Toxicity: The LC50/96-hour values for fish are over 100 mg/l.
This material is not expected to be toxic to aquatic life.

13. Disposal Considerations

Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information

Not regulated.

15. Regulatory Information

SARA 311/312: Acute: Yes Chronic: Yes Fire: Yes Pressure: No
Reactivity: No (Pure / Liquid)

16. Other Information

Product Use:
Laboratory Reagent.