

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Cyclohexanone Technical Grade

**Synonyms:** cyclohexanone

**CAS Number:** 108-94-1

**Grade/Purity:** Technical Grade

**Product Type:** Solvents

**Product Use:** Industrial, Manufacturing or Laboratory use

**Manufacturer/Supplier:** Alliance Chemical, 204 South Edmond St, Taylor, Texas 76574

**Information:** 512-365-6838 | [www.alliancechemical.com](http://www.alliancechemical.com)

**Emergency:** CHEMTEL - 800-255-3924 (24 Hours/Day, 7 Days/Week)

### 2. HAZARDS IDENTIFICATION

**Signal Word:** Danger

**GHS Pictograms:**



**Hazard Statements:**

|      |                                  |
|------|----------------------------------|
| H226 | Flammable liquid and vapour      |
| H302 | Harmful if swallowed             |
| H312 | Harmful in contact with skin     |
| H315 | Causes skin irritation           |
| H318 | Causes serious eye damage        |
| H332 | Harmful if inhaled               |
| H335 | May cause respiratory irritation |

**Precautionary Statements:**

|                |                                                                                                        |
|----------------|--------------------------------------------------------------------------------------------------------|
| P210           | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.         |
| P233           | Keep container tightly closed.                                                                         |
| P240           | Ground and bond container and receiving equipment.                                                     |
| P241           | Use explosion-proof electrical, ventilating, and lighting equipment.                                   |
| P242           | Use non-sparking tools.                                                                                |
| P243           | Take precautionary measures against static discharge.                                                  |
| P261           | Avoid breathing dust, fume, gas, mist, vapours or spray.                                               |
| P271           | Use only outdoors or in a well-ventilated area.                                                        |
| P280           | Wear protective gloves, protective clothing, and eye/face protection.                                  |
| P303+P361+P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. |
| P304+P340      | IF INHALED: Remove person to fresh air and keep comfortable for breathing.                             |
| P313           | Get medical advice or attention.                                                                       |
| P370+P378      | In case of fire: Use appropriate media to extinguish.                                                  |

|           |                                                                                                                |
|-----------|----------------------------------------------------------------------------------------------------------------|
| P403+P235 | Store in a well-ventilated place. Keep cool.                                                                   |
| P501      | Dispose of contents and container in accordance with local, regional, national, and international regulations. |

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

| COMPONENT     | % MIN | % MAX | CAS #    | EINECS# / ELINCS# | FORMULA                          | MOLECULAR WEIGHT |
|---------------|-------|-------|----------|-------------------|----------------------------------|------------------|
| Cyclohexanone | 99    | 100   | 108-94-1 | 203-631-1         | C <sub>6</sub> H <sub>10</sub> O | 98.14 g/mol      |

### 4. FIRST-AID MEASURES

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Eyes</b>       | EYES: First check the victim for contact lenses and remove if present. Flush victim's eyes with water or normal saline solution for 20 to 30 minutes while simultaneously calling a hospital or poison control center. Do not put any ointments, oils, or medication in the victim's eyes without specific instructions from a physician. IMMEDIATELY transport the victim after flushing eyes to a hospital even if no symptoms (such as redness or irritation) develop.                                                                                                                                                                                                                                                                           |
| <b>Skin</b>       | Remove contaminated clothes. Rinse skin with plenty of water or shower. Refer for medical attention .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Inhalation</b> | INHALATION: IMMEDIATELY leave the contaminated area; take deep breaths of fresh air. If symptoms (such as wheezing, coughing, shortness of breath, or burning in the mouth, throat, or chest) develop, call a physician and be prepared to transport the victim to a hospital. Provide proper respiratory protection to rescuers entering an unknown atmosphere. Whenever possible, Self-Contained Breathing Apparatus (SCBA) should be used; if not available, use a level of protection greater than or equal to that advised under Protective Clothing.                                                                                                                                                                                          |
| <b>Ingestion</b>  | INGESTION: DO NOT INDUCE VOMITING. Corrosive chemicals will destroy the membranes of the mouth, throat, and esophagus and, in addition, have a high risk of being aspirated into the victim's lungs during vomiting which increases the medical problems. If the victim is conscious and not convulsing, give 1 or 2 glasses of water to dilute the chemical and IMMEDIATELY call a hospital or poison control center. IMMEDIATELY transport the victim to a hospital. If the victim is convulsing or unconscious, do not give anything by mouth, ensure that the victim's airway is open and lay the victim on his/her side with the head lower than the body. DO NOT INDUCE VOMITING. Transport the victim IMMEDIATELY to a hospital. (NTP, 1992) |

### 5. FIRE-FIGHTING MEASURES

|                             |                                                                                                                         |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------|
| <b>Suitable Media</b>       | Alcohol-resistant foam, CO <sub>2</sub> , dry chemical powder. Water spray may be used to cool fire-exposed containers. |
| <b>Unsuitable Media</b>     | Do not use a solid water stream — may scatter and spread fire.                                                          |
| <b>Protective Equipment</b> | Wear self-contained breathing apparatus and full protective clothing.                                                   |
| <b>Combustion Products</b>  | May include carbon oxides and other toxic fumes. See Section 10.                                                        |

### 6. ACCIDENTAL RELEASE MEASURES

|                                  |                                                                                                         |
|----------------------------------|---------------------------------------------------------------------------------------------------------|
| <b>Personal Precautions</b>      | Use PPE as described in Section 8. Ensure adequate ventilation. Evacuate personnel to safe areas.       |
| <b>Environmental</b>             | Prevent leakage or spillage from entering drains, sewers, or waterways.                                 |
| <b>Containment &amp; Cleanup</b> | Absorb with inert material. Collect in appropriate waste container. Dispose per applicable regulations. |

### 7. HANDLING AND STORAGE

|                      |                                                                                                                                                                                                                                   |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Safe Handling</b> | Use with adequate ventilation. Avoid contact with skin, eyes, and clothing. Wash thoroughly after handling. Keep container closed when not in use.                                                                                |
| <b>Safe Storage</b>  | Store in a cool, dry, well-ventilated area away from heat, sparks, and open flame. Keep away from incompatible materials (see Section 10). Keep containers tightly closed. Ground and bond containers when transferring material. |

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering Controls:** Use adequate ventilation. Provide eyewash stations and quick-drench showers accessible to areas of use.

## Occupational Exposure Limits:

No established occupational exposure limits.

|                   |                                                                                                                                                         |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Eyes</b>       | Wear chemical safety goggles or face shield.                                                                                                            |
| <b>Skin</b>       | Wear chemical-resistant gloves and protective clothing.                                                                                                 |
| <b>Inhalation</b> | Use a NIOSH-approved respirator with organic vapor cartridges. For confined spaces or exposures above the OEL, use supplied-air respiratory protection. |

Exposure limits sourced from NIOSH Pocket Guide and OSHA 29 CFR 1910.1000. Hazard classification from ECHA Classification and Labelling Inventory (CLP Annex VI).

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|                                 |                                                              |
|---------------------------------|--------------------------------------------------------------|
| <b>Appearance</b>               | Colorless liquid with a pungent odor                         |
| <b>Odor</b>                     | ODOR REMINISCENT OF PEPPERMINT & ACETONE                     |
| <b>Particle Characteristics</b> | Not Applicable                                               |
| <b>pH</b>                       | Not Available                                                |
| <b>Melting Point</b>            | 3 °F (NTP, 1992)                                             |
| <b>Boiling Point</b>            | 312.1 °F at 760 mmHg (NTP, 1992)                             |
| <b>Flash Point</b>              | 111 °F (NTP, 1992)                                           |
| <b>Vapor Pressure</b>           | 5.2 mmHg at 77 °F ; 10 mmHg at 101.7 °F (NTP, 1992)          |
| <b>Specific Gravity</b>         | 0.948                                                        |
| <b>Solubility</b>               | Soluble in water, ethanol, ether, and other organic solvents |
| <b>Molecular Formula</b>        | C <sub>6</sub> H <sub>10</sub> O                             |
| <b>Molecular Weight</b>         | 98.14 g/mol                                                  |

## 10. STABILITY AND REACTIVITY

|                               |                                                                               |
|-------------------------------|-------------------------------------------------------------------------------|
| <b>Chemical Stability</b>     | Stable under recommended storage conditions.                                  |
| <b>Hazardous Reactions</b>    | None under normal processing conditions.                                      |
| <b>Conditions to Avoid</b>    | Heat, sparks, open flame, and incompatible materials.                         |
| <b>Incompatible Materials</b> | Strong oxidizing agents, sources of ignition, heat.                           |
| <b>Decomposition Products</b> | May produce carbon oxides and other toxic fumes when heated to decomposition. |

## 11. TOXICOLOGICAL INFORMATION

**Acute Toxicity:** See Section 2 for GHS hazard classification.

|             |                           |
|-------------|---------------------------|
| <b>IARC</b> | Not listed as carcinogen. |
| <b>NTP</b>  | Not listed as carcinogen. |
| <b>OSHA</b> | Not listed as carcinogen. |

## 12. ECOLOGICAL INFORMATION

|                         |                                                                                                              |
|-------------------------|--------------------------------------------------------------------------------------------------------------|
| <b>Ecotoxicity</b>      | Fish LC50: 527 mg/L (96 h, Pimephales promelas (flow-through, 25 °C, hardness 45.5 mg/L CaCO <sub>3</sub> )) |
| <b>Persistence</b>      | Low persistence — Readily biodegradable (model river/lake half-lives 4.1 d / 33 d)                           |
| <b>Bioaccumulation</b>  | BCF Bioconcentration expected minimal                                                                        |
| <b>Mobility in Soil</b> | Highly mobile in soil                                                                                        |

## 13. DISPOSAL CONSIDERATIONS

Dispose of contents/container in accordance with applicable federal, state, and local regulations. Do not dispose of into drains or waterways.

#### 14. TRANSPORT INFORMATION

|                  |                                  |
|------------------|----------------------------------|
| US DOT           | UN1915, Cyclohexanone, 3, PG III |
| IMDG             | UN1915, Cyclohexanone, 3, PG III |
| IATA/ICAO        | UN1915, Cyclohexanone, 3, PG III |
| Marine Pollutant | No                               |

#### 15. REGULATORY INFORMATION

|                    |                                           |
|--------------------|-------------------------------------------|
| TSCA Inventory     | Listed.                                   |
| SARA 313 (TRI)     | Not listed.                               |
| California Prop 65 | Not listed.                               |
| SARA 311/312       | See Section 2 for hazard classifications. |

Data retrieved as of — TSCA Inventory: 2026-08-02; SARA 313 (TRI): 2026-08-02; California Prop 65: 2026-08-02

#### 16. OTHER INFORMATION

**Revision Date:** 08/09/2026

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