

MATERIAL SAFETY DATA SHEET



Date Issued: 09/13/2010
MSDS No: 43972

CYCLOPENTANONE

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: CYCLOPENTANONE

PRODUCT CODE: 43972

MANUFACTURER

Distributed by Tarr Acquisition, LLC
4115 W. Turney Ave.
Phoenix, AZ 85019
Service Number: 602-233-2000

24 HR. EMERGENCY TELEPHONE NUMBERS

CHEMTREC (US Transportation) :(800) 424 - 9300
CANUTEC (Canadian Transportation) :(613) 996 - 6666

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

IMMEDIATE CONCERNS: WARNING! FLAMMABLE LIQUID AND VAPOR. HARMFUL IF SWALLOWED OR INHALED. CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT. AFFECTS CENTRAL NERVOUS SYSTEM.

POTENTIAL HEALTH EFFECTS

EYES: Causes irritation, redness, and pain. May cause severe irritation and pain. May cause burns.

SKIN: May cause skin irritation. Symptoms include redness, itching, and pain. Can cause severe irritation, possible skin burns.

INGESTION: Large oral doses may produce gastro-intestinal disturbances. Material is moderately toxic.

INHALATION: Causes irritation to the respiratory tract. Symptoms may include coughing, shortness of breath. High concentrations have narcotic effect. Can cause dizziness and lightheadedness. May cause central nervous system depression and unconsciousness.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt. %	CAS	EINECS
CYCLOPENTANONE	90 - 100	120-92-3	204-435-9

4. FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get immediate medical attention.

SKIN: Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

INGESTION: Get medical attention immediately. Never give anything by mouth to an unconscious person.

INHALATION: Remove from exposure to fresh air. If not breathing or if breathing is difficult, oxygen should be administered by qualified personnel. Consult doctor.

5. FIRE FIGHTING MEASURES

FLASHPOINT AND METHOD: 26°C (79°F)

GENERAL HAZARD: Flammable Liquid and Vapor! Contact with strong oxidizers may cause fire.

EXTINGUISHING MEDIA: Use water fog, "alcohol" foam, dry chemical, or CO₂.

EXPLOSION HAZARDS: When heated above the flash point, releases flammable vapors. Sealed containers may rupture when heated. Above the flash point, explosive vapor-air mixtures may be formed. Vapors can flow along surfaces to distant ignition source and flash back.

FIRE FIGHTING EQUIPMENT: Wear a NIOSH-approved positive-pressure self-contained breathing apparatus (SCBA) and full protective fire fighting clothing (includes fire fighting helmet, coat, pants, boots, and gloves). If protective equipment is not available or not used, fight fire from a protected location or safe distance.

6. ACCIDENTAL RELEASE MEASURES

GENERAL PROCEDURES: 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! If a leak or spill has not ignited, use water spray to disperse the vapors, to protect personnel attempting to stop leak, and to flush spills away from exposures.

7. HANDLING AND STORAGE

GENERAL PROCEDURES: Protect against physical damage. Store in a cool, dry well-ventilated location, away from any area where the fire hazard may be acute. Outside or detached storage is preferred. Separate from incompatible materials. Containers should be bonded and grounded for transfers to avoid static sparks. Storage and use areas should be No Smoking areas. Use non-sparking type tools and equipment, including explosion proof ventilation. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquids); observe all warnings and precautions listed for the product.

COMMENTS: KEEP OUT OF REACH OF CHILDREN! Empty containers retain product residue (liquid and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition; they may explode and cause injury or death.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: Local exhaust and general ventilation must be adequate to meet exposure limit(s). Electrical equipment should be grounded and conform to applicable electrical code.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Use chemical safety goggles and/or full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work areas.

SKIN: Impervious gloves such as viton or nitrile should be worn at all times when handling this material.

(Consult your safety equipment supplier.) In confined spaces or where the risk of skin exposure is much higher, impervious clothing should be worn. Safety showers should be available for emergency use.

RESPIRATORY: If exposure may or does exceed occupational exposure limits (Sec.8) use a NIOSH approved respirator to prevent overexposure. In accord with 29 CFR 1910.134, when airborne exposure guidelines and/or comfort levels may be exceeded, use an approved air-purifying respirator.

WORK HYGIENIC PRACTICES: Use good personal hygiene when handling this product. Wash hands after use, before eating, drinking, smoking, or using the toilet.

OTHER USE PRECAUTIONS: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

9. PHYSICAL AND CHEMICAL PROPERTIES

Chemical Name	Flash Point (°C)	Boiling Point (°C)	Solubility in Water	Specific Gravity
CYCLOPENTANONE	26	130.6	Slight	0.951

PHYSICAL STATE: Liquid

ODOR: Peppermint odor.

COLOR: Clear, colorless liquid.

pH: Not Available

PERCENT VOLATILE: 100 at 21°C (70°F)

VAPOR PRESSURE: 11.4 mm Hg at 25°C (77°F)

VAPOR DENSITY: 2.3 (Air=1)

BOILING POINT: 130.6°C (268°F) to (268°F)

MELTING POINT: -58.2°C (-72°F)

FLASHPOINT AND METHOD: 26°C (79°F)

SOLUBILITY IN WATER: Slight

DENSITY: 7.93

Notes: LBS./gallon

SPECIFIC GRAVITY: 0.951

10. STABILITY AND REACTIVITY

STABILITY: Stable under ordinary conditions of use and storage.

POLYMERIZATION: Polymerizes easily, especially in presence of acids.

CONDITIONS TO AVOID: Avoid heat, flames, ignition sources and incompatibles.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide and unidentified organic compounds may be formed during combustion.

11. TOXICOLOGICAL INFORMATION

ACUTE

Chemical Name	ORAL LD ₅₀ (rat)	DERMAL LD ₅₀ (rabbit)	INHALATION LC ₅₀ (rat)
CYCLOPENTANONE	> 2000 mg/kg (rabbits)	> 5000 mg/kg (Rabbit)	> 19.5 mg/l, exposure time: 4.00 h

DERMAL LD₅₀: 1180 mg/kg (rat)

NOTES: NO LD50/LC50 information found relating to normal routes of occupational exposure.

EYE EFFECTS: Cyclopentanone Irritation Data: (Std. Draize, rabbit) eye, 100 mg. severe.

SKIN EFFECTS: Cyclopentanone Irritation Data: (Std Draize, rabbit) skin, 500 mg. mild.

SENSITIZATION: Non-sensitizing to guinea pig skin.

MUTAGENICITY: Mutagenicity: Ames Test; negative.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: When released into the soil, this material is expected to readily biodegrade.

When released into the soil, this material is expected to leach into ground water. When released into water, this material may evaporate to a moderate extent. This material is not expected to significantly bioaccumulate. When released into the air, this material is expected to be readily degraded by reaction with photochemically produced hydroxyl radicals.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved incinerator or disposed in a RCRA approved waste facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

EMPTY CONTAINER: KEEP OUT OF REACH OF CHILDREN! Empty containers retain product residue and can be dangerous. Do not pressurize, cut weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks static electricity, or other sources of ignition.

RCRA/EPA WASTE INFORMATION: 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. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Cyclopentanone

PRIMARY HAZARD CLASS/DIVISION: 3

UN/NA NUMBER: UN2245

PACKING GROUP: III

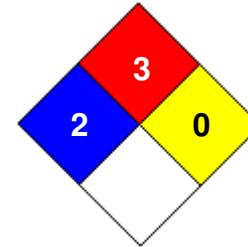
LABEL: Flammable liquid

15. REGULATORY INFORMATION

UNITED STATES**DOT LABEL SYMBOL AND HAZARD CLASSIFICATION**

Flammable Liquid

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SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)**311/312 HAZARD CATEGORIES:** This product should be reported as an immediate (acute) health hazard, and a fire hazard.**FIRE:** Yes **PRESSURE GENERATING:** No **REACTIVITY:** No **ACUTE:** Yes**CHRONIC:** No**313 REPORTABLE INGREDIENTS:** To the best of our knowledge, this product is not listed as a toxic chemical.**302/304 EMERGENCY PLANNING****EMERGENCY PLAN:** To the best of our knowledge, this product is not listed as an extremely hazardous substance.**TSCA (TOXIC SUBSTANCE CONTROL ACT)****TSCA REGULATORY:** All ingredients are on the TSCA inventory or are not required to be listed on the TSCA inventory.**GENERAL COMMENTS:** The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.**16. OTHER INFORMATION****PREPARED BY:** COMPLIANCE DEPT.**REVISION SUMMARY:** New MSDS**NFPA CODES****MANUFACTURER DISCLAIMER:** The information contained herein is based on the data available to us and is believed to be accurate. However, Tarr Acquisition, LLC (Tarr, LLC) makes no warranty, expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. Tarr, LLC assumes no responsibility for injuries from the use of the product described herein.