

**1. PRODUCT AND COMPANY IDENTIFICATION**

**Product Name:** Methyl n-Propyl Ketone (MPK)  
**Synonyms:** pentan-2-one  
**CAS Number:** 107-87-9  
**Grade/Purity:** Technical  
**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  
**Emergency:** CHEMTEL - 800-255-3924 (24 Hours/Day, 7 Days/Week)

**2. HAZARDS IDENTIFICATION**

**Signal Word:** Danger

**GHS Pictograms:**



**Hazard Statements:**

H225 (31.3%)	Highly Flammable liquid and vapor [Danger Flammable liquids]
H302 (92.7%)	Harmful if swallowed [Warning Acute toxicity, oral]
H319 (91.1%)	Causes serious eye irritation [Warning Serious eye damage/eye irritation]
H335 (74.6%)	May cause respiratory irritation [Warning Specific target organ toxicity, single exposure; Respiratory tract irritation]

**Precautionary Statements:**

P210,	P233, P240, P241, P242, P243, P261, P264, P264+P265, P270, P271, P280, P301+P317, P303+P361+P353, P304+P340, P305+P351+P338, P319, P330, P337+P317, P370+P378, P403+P233, P403+P235, P405, and P501
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**3. COMPOSITION / INFORMATION ON INGREDIENTS**

COMPONENT	% MIN	% MAX	CAS #	EINECS# / ELINCS#	FORMULA	MOLECULAR WEIGHT
Methyl n-Propyl Ketone	99.5	100.5	107-87-9	203-528-1	C5H10O	86.13 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.
<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. 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. Be prepared to transport the victim to a hospital if advised by a physician. 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. IMMEDIATELY transport the victim to a hospital. (NTP, 1992)

## 5. FIRE-FIGHTING MEASURES

<b>Suitable Media</b>	Alcohol-resistant foam, CO2, 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 NIOSH-approved respirator if exposure limits are exceeded or irritation occurs.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Colorless, volatile liquid with a sweet, fruity odor
<b>Odor</b>	Characteristic
<b>Median Particle Size</b>	Not Applicable
<b>Particle Size Distribution</b>	Not Applicable
<b>Particle Shape</b>	Not Applicable
<b>Surface Area</b>	Not Applicable
<b>Dustiness</b>	Not Applicable
<b>Hygroscopicity</b>	Not Applicable
<b>pH</b>	Not Available
<b>Melting Point</b>	-79°C (-110.2°F)

<b>Boiling Point</b>	102°C (215.6°F)
<b>Flash Point</b>	0°C (32°F)
<b>Vapor Pressure</b>	Not Available
<b>Specific Gravity</b>	0.803
<b>Solubility</b>	Soluble in organic solvents, slightly soluble in water
<b>Molecular Formula</b>	C <sub>5</sub> H <sub>10</sub> O
<b>Molecular Weight</b>	86.13 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: 1240 mg/L (96 h, Pimephales promelas)
<b>Persistence</b>	Not persistent; volatilizes (air half-life ~3.5 d) — Biodegrades (43% ThBOD in 5 d)
<b>Bioaccumulation</b>	log Kow 0.91, BCF 3 (estimated; low)
<b>Mobility in Soil</b>	High soil mobility (estimated Koc 75)

## 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

<b>US DOT</b>	UN1249, Methyl propyl ketone, 3, PG II
<b>IMDG</b>	UN1249, Methyl propyl ketone, 3, PG II
<b>IATA/ICAO</b>	UN1249, Methyl propyl ketone, 3, PG II
<b>Marine Pollutant</b>	No

## 15. REGULATORY INFORMATION

<b>Regulatory listings not yet on file in this system; consult OSHA, EPA TSCA, EPCRA TRI, and California OEHHA directly.</b>	
<b>SARA 311/312</b>	See Section 2 for hazard classifications.

## 16. OTHER INFORMATION

**Revision Date:** 07/01/2026

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