

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Methyl n-Amyl Ketone (MNAK) ACS Grade

Synonyms: 2-HEPTANONE, Heptan-2-one, Methyl pentyl ketone, Butylacetone, Amyl methyl ketone

CAS Number: 110-43-0

Grade/Purity: Laboratory Grade

Product Type: Ketones

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: Warning

GHS Pictograms:



Hazard Statements:

H226	Flammable liquid and vapor [Warning Flammable liquids]
H302	Harmful if swallowed [Warning Acute toxicity, oral]
H332	Harmful if inhaled [Warning Acute toxicity, inhalation]

Precautionary Statements:

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

COMPONENT	CAS #	FORMULA	MOLECULAR WEIGHT	CONCENTRATION
Methyl n-Amyl Ketone (MNAK)	110-43-0	C ₇ H ₁₄ O	114.19 g/mol	ACS grade (see specification)

4. FIRST-AID MEASURES

Eyes	Eye: IRRIGATE IMMEDIATELY - If this chemical contacts the eyes, immediately wash (irrigate) the eyes with large amounts of water, occasionally lifting the lower and upper lids. Get medical attention immediately.
Skin	Remove contaminated clothes. Rinse skin with plenty of water or shower.
Inhalation	Breathing: FRESH AIR - If a person breathes large amounts of this chemical, move the exposed person to fresh air at once. Other measures are usually unnecessary.
Ingestion	Swallow: MEDICAL ATTENTION IMMEDIATELY - If this chemical has been swallowed, get medical attention immediately. (NIOSH, 2024)

5. FIRE-FIGHTING MEASURES

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

6. ACCIDENTAL RELEASE MEASURES

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

7. HANDLING AND STORAGE

Safe Handling	Use with adequate ventilation. Avoid contact with skin, eyes, and clothing. Wash thoroughly after handling. Keep container closed when not in use.
Safe Storage	Store in a cool, dry, well-ventilated area away from heat, sparks, and open flame. Keep away from: N-AMYL METHYL KETONE reacts exothermically with many acids and bases to produce flammable gases (e.g. 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:

AGENCY	EXPOSURE LIMIT
OSHA PEL	100.0 [ppm]
NIOSH REL	100 ppm (465 mg/m ³)
IDLH	800.0 [ppm]

Eyes	Wear chemical safety goggles or face shield.
Skin	Wear chemical-resistant gloves and protective clothing.
Inhalation	Use NIOSH-approved respirator if exposure limits are exceeded or irritation occurs.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear, colorless liquid
Odor	Penetrating fruity odor
pH	Not Available
Melting Point	-35°C (-31°F)
Boiling Point	151°C (304°F)
Flash Point	49°C (120°F)
Vapor Pressure	3 mmHg (NIOSH, 2024)
Specific Gravity	0.815
Solubility	Soluble in organic solvents, slightly soluble in water
Molecular Formula	C ₇ H ₁₄ O
Molecular Weight	114.19 g/mol

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage conditions.
Hazardous Reactions	None under normal processing conditions.
Conditions to Avoid	Heat, sparks, open flame, and incompatible materials.
Incompatible Materials	N-AMYL METHYL KETONE reacts exothermically with many acids and bases to produce flammable gases (e.g., H ₂). The heat may be sufficient to start a fire in the unreacted portion. Reacts with reducing ag
Decomposition Products	May produce carbon oxides and other toxic fumes when heated to decomposition.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity: See Section 2 for GHS hazard classification.

IARC	Not listed as carcinogen.
NTP	Not listed as carcinogen.
OSHA	Not listed as carcinogen.

12. ECOLOGICAL INFORMATION

Ecotoxicity	Data not available. Avoid release to the environment.
Persistence	Not Available
Bioaccumulation	Not Available
Mobility in Soil	Not Available

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	UN1110, N-AMYL METHYL KETONE, 3, PG III
IMDG	UN1110, N-AMYL METHYL KETONE, 3, PG III, Tunnel (D/E)
IATA/ICAO	UN1110, N-AMYL METHYL KETONE, 3, PG III Passenger: 60 L (PI 355); Cargo only: 220 L (PI 366)
Marine Pollutant	No

15. REGULATORY INFORMATION

TSCA Inventory	All ingredients are listed on the TSCA Active inventory.
California Prop 65	Refer to California Proposition 65 list for current status.
SARA 311/312	See Section 2 for hazard classifications.
SARA 313	Refer to EPA Toxic Release Inventory for current listing status.

16. OTHER INFORMATION

Revision Date: 02/10/2026

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