

Section 1. Product and Company Identification

**Product Name** Methyl Amyl Ketone  
**CAS Number** 110-43-0

**Parchem - fine & specialty chemicals**  
**415 Huguenot Street**  
**New Rochelle, NY 10801**  
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CHEMTEL  
Toll Free US & Canada: 1 (800) 255-3924  
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Collect Calls Accepted

Section 2. Hazards Identification

**Classification of the substance or mixture**

**Physical hazards**

Flammable liquids Category 3

**Health hazards**

Acute toxicity, oral Category 4

Acute toxicity, inhalation Category 4

Skin corrosion/irritation Category 2

Serious eye damage/eye irritation Category 2B

Specific target organ toxicity, single exposure Category 3 respiratory tract irritation

Specific target organ toxicity, single exposure Category 3 narcotic effects

**Environmental hazards**

Not classified.

**GHS Label Elements**

**Pictograms:**



**Signal word:** WARNING

**Hazard and precautionary statements**

**Hazard Statements**

H226 Flammable liquid and vapor.

H302 + H332 Harmful if swallowed or if inhaled.

H305 May be harmful if swallowed and enters airways.

H315 Causes skin irritation.

H320 Causes eye irritation.

H335 May cause respiratory irritation.



H336 May cause drowsiness or dizziness.

### Precautionary Statements

#### Prevention

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ventilating/lighting equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P261 Avoid breathing mist or vapor.

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/eye protection/face protection.

#### Response

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.

P303 + P361 +

P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305 + P351 +

P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P312 Call a POISON CENTER/doctor if you feel unwell.

P321 Specific treatment (see this label).

P330 Rinse mouth.

P331 Do NOT induce vomiting.

P332 + P313 If skin irritation occurs: Get medical advice/attention.

P337 + P313 If eye irritation persists: Get medical advice/attention.

P362 + P364 Take off contaminated clothing and wash it before reuse.

P370 + P378 In case of fire: Use appropriate media to extinguish.

#### Storage

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

#### Disposal

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**Hazard(s) not otherwise classified (HNOC):** None known.

**Supplemental information:** Not applicable.



Section 3. Composition / Information on Ingredients

**Common Name** Methyl Amyl Ketone  
**Synonym(s)** Butylacetone; Methyl n-Pentyl Ketone; Heptan-2-one  
**CAS Number** 110-43-0

COMPONENT	CAS NUMBER	CONCENTRATION
Methyl Amyl Ketone	110-43-0	100%

Section 4. First Aid Measures

**Inhalation:** If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. For breathing difficulties, oxygen may be necessary. Call a physician if symptoms develop or persist.

**Skin contact:** Take off immediately all contaminated clothing. Get medical attention if irritation develops and persists. Wash skin thoroughly with soap and water for several minutes.

**Eye contact:** Remove contact lenses, if present and easy to do. Get medical attention if irritation develops and persists. Promptly wash eyes with plenty of water while lifting the eye lids.

**Ingestion:** Call a physician or poison control center immediately. If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs.

**Most important symptoms/effects, acute and delayed:** Exposed individuals may experience eye tearing, redness, and discomfort. Skin irritation. Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea. May cause redness and pain.

**Indication of immediate medical attention and special treatment needed:** Not available.

**General information:** Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

Section 5. Firefighting Measures

**Suitable extinguishing media:** Water spray, fog, CO<sub>2</sub>, dry chemical, or alcohol resistant foam.

**Unsuitable extinguishing media:** Do not use a solid water stream as it may scatter and spread fire.

**Specific hazards arising from the chemical:** Fire may produce irritating, corrosive and/or toxic gases.

**Special protective equipment and precautions for firefighters:** Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Structural firefighters protective clothing will only provide limited protection. Wear self-contained breathing apparatus with a full face piece operated in the positive pressure demand mode when fighting fires.

**Firefighting equipment/instructions:** In case of fire and/or explosion do not breathe fumes. Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. Water runoff can cause environmental damage. Ventilate closed spaces before entering them. Keep run-off water out of sewers and water



sources. Dike for water control.

**Specific methods:** Use water spray to cool unopened containers.

**General fire hazards:** Static charges generated by emptying package in or near flammable vapor may cause flash fire.

Section 6. Accidental Release Measures

**Personal precautions, protective equipment, and emergency procedures:** Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Eliminate all sources of ignition. Avoid contact with skin or inhalation of spillage, dust or vapor.

**Methods and materials for containment and cleaning up:** Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Clean surface thoroughly to remove residual contamination. Collect and dispose of spillage as indicated in section 13 of the SDS.

Never return spills in original containers for re-use.

**Environmental precautions:** Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Retain and dispose of contaminated wash water.

Section 7. Handling and Storage

**Precautions for safe handling:** Do not handle or store near an open flame, heat or other sources of ignition. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Avoid breathing vapor. Avoid prolonged exposure. Wash thoroughly after handling. Avoid contact with eyes, skin, and clothing.

**Conditions for safe storage, including any incompatibilities:** Keep container closed. Handle containers with care. Open slowly in order to control possible pressure release. Store in a cool, well-ventilated area.

Section 8. Exposure Controls / Personal Protection

**Occupational Exposure Limits**

**US OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

Material	Type	Value
Methyl Amyl Ketone (CAS#1110-43-0)	PEL	465 mg/m <sup>3</sup>
		100 ppm

**US ACGIH Threshold Limit Values**

Material	Type	Value
Methyl Amyl Ketone (CAS#1110-43-0)	TWA	50 ppm



### US NIOSH: Pocket Guide to Chemical Hazards

Material	Type	Value
Methyl Amyl Ketone (CAS#110-43-0)	REL	465 mg/m <sup>3</sup>
		100 ppm
	TWA	465 mg/m <sup>3</sup>
		100 ppm

**Biological limit values:** No biological exposure limits noted for the ingredient(s).

**Appropriate engineering controls:** Use explosion-proof ventilation equipment to stay below exposure limits. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

### Individual protection measures, such as personal protective equipment

**Eye/face protection:** Wear safety glasses with side shields (or goggles).

### Skin protection

**Hand protection:** Chemical resistant gloves.

**Other:** Not available.

**Respiratory protection:** Respiratory protection not required. If ventilation is insufficient, suitable respiratory protection must be provided. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

**Thermal hazards:** Wear appropriate thermal protective clothing, when necessary.

**General hygiene considerations:** When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

### Section 9. Physical and Chemical Properties

**Appearance:** Liquid.

**Color:** Refer to Spec Sheet

**Odor:** Characteristic.

**Odor threshold:** Not available.

**pH:** Not available.

**Melting point/freezing point:** -31.9°F (-35.5°C)

**Initial boiling point and boiling range:** 304.7°F (151.5°C) 101.325 kPa

**Flash point (Closed Cup):** 106.0°F (41.1°C)

**Evaporation rate:** Not available.

**Flammability (solid, gas):** Not available.

**Upper/lower flammability or explosive limits**



**Flammability limit - lower:** Not available.  
**Flammability limit - upper:** Not available.  
**Explosive limit - lower:** Not available.  
**Explosive limit - upper:** Not available.  
**Vapor pressure:** 0.21 kPa at 25°C / 2.14 mmHg at 25°C  
**Vapor density:** 3.9  
**Relative density:** Not available.

#### Solubility(ies)

**Solubility (water):** Insoluble  
**Partition coefficient (n-octanol/water):** 2  
**Auto-ignition temperature:** 740°F (393.33°C)  
**Decomposition temperature:** Not available.  
**Viscosity:** Not available.

#### Other information

**Density:** 0.82 g/cm<sup>3</sup> estimated  
**Dynamic viscosity:** 0.77 mPa\*s  
**Flammability class:** Combustible II estimated  
**Heat of combustion (NFPA 30B):** 35 kJ/g  
**Kinematic viscosity:** 0.954506 mm<sup>2</sup>/s estimated  
**Molecular formula:** C<sub>7</sub>H<sub>14</sub>O  
**Molecular weight:** 114.18 g/mol  
**Specific gravity:** 0.81 at 25°C

#### Section 10. Stability and Reactivity

**Reactivity:** The product is stable and non-reactive under normal conditions of use, storage and transport.

**Chemical stability:** Material is stable under normal conditions.

**Possibility of hazardous reactions:** No dangerous reaction known under conditions of normal use.

**Conditions to avoid:** Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.

**Incompatible materials:** Strong acids.

**Hazardous decomposition products:** No hazardous decomposition products if stored and handled as indicated.

#### Section 11. Toxicological Information

##### Information on likely routes of exposure

**Inhalation:** Vapors have a narcotic effect and may cause headache, fatigue, dizziness, and nausea. Harmful if inhaled. May be harmful if swallowed and enters airways.

**Skin contact:** Causes skin irritation.



**Eye contact:** Causes eye irritation. Causes mild eye irritation.

**Ingestion:** Harmful if swallowed.

**Symptoms related to the physical, chemical and toxicological characteristics:** Exposed individuals may experience eye tearing, redness, and discomfort. Skin irritation. May cause redness and pain. Symptoms of overexposure may be headache, dizziness, tiredness, nausea, and vomiting.

#### Information on toxicological effects

**Acute toxicity:** Harmful if inhaled. Harmful if swallowed. May be harmful if swallowed and enters airways. Narcotic effects. May cause respiratory irritation. Expected to be a low hazard for usual industrial or commercial handling by trained personnel

#### Acute Toxicity

**Dermal LD50 - Rabbit:** 12,600 mg/kg

**Oral LD50 - Mouse:** 730 mg/kg

**Oral LD50 - Rat:** 1.67 g/kg

**Other LD50 - Rat:** 800 mg/kg

\* Estimates for product may be based on additional component data not shown.

**Skin corrosion/irritation:** Causes skin irritation.

Skin - rabbit - Open irritation test - 24 h

**Serious eye damage/eye irritation:** Causes eye irritation.

#### Respiratory or skin sensitization

**Respiratory sensitization:** Not available.

**Skin sensitization:** This product is not expected to cause skin sensitization.

**Germ cell mutagenicity:** No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

#### Carcinogenicity

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):** Not listed.

**Reproductive toxicity:** This product is not expected to cause reproductive or developmental effects.

**Specific target organ toxicity - single exposure:** Respiratory tract irritation. Narcotic effects.

**Specific target organ toxicity - repeated exposure:** Not classified.

**Aspiration hazard:** May be harmful if swallowed and enters airways.

**Chronic effects:** Prolonged inhalation may be harmful.

#### Section 12. Ecological Information

**Ecotoxicity:** The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment





**Aquatic Toxicity**

**Fish LC50 - Fathead minnow (*Pimephales promelas*):** 126 - 137 mg/L (96h)

**Persistence and degradability:** No data is available on the degradability of this product.

**Bioaccumulative potential:** Not available.

**Partition coefficient (n-Octanol/water):** logKow: 1.98

**Mobility in soil:** No data available.

**Other adverse effects:** No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

Section 13. Disposal Considerations

**Waste Treatment Methods:** Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

Section 14. Transport Information

**ADN**

**UN number:** 1110

**UN proper shipping name:** n-Amyl Methyl Ketone

**Transport hazard class(es):** 3

**Subsidiary class(es):** -

**Packing group:** III

**Environmental hazards:** No

**Labels required:** 3

**ADR**

**UN number:** 1110

**UN proper shipping name:** n-Amyl Methyl Ketone

**Transport hazard class(es):** 3

**Subsidiary class(es):** -

**Packing group:** III

**Environmental hazards:** No

**Labels required:** 3

**RID**

**UN number:** 1110

**UN proper shipping name:** n-Amyl Methyl Ketone

**Transport hazard class(es):** 3

**Subsidiary class(es):** -

**Packing group:** III

**Environmental hazards:** No

**Labels required:** 3





**DOT - Bulk**

**UN number:** 1110

**Proper shipping name:** n-Amyl Methyl Ketone

**Hazard class:** 3

**Packing group:** III

**Marine pollutant:** No

**Environmental hazards:** No

**Packaging exceptions:** 150

**Packaging bulk:** 242

**Labels required:** 3

**DOT - Non-Bulk**

Not regulated as dangerous goods.

**IATA**

**UN number:** 1110

**UN proper shipping name:** n-Amyl Methyl Ketone

**Transport hazard class(es):** 3

**Subsidiary class(es):** -

**Packing group:** III

**Environmental hazards:** No

**Labels required:** 3

**IMDG**

**UN number:** 1110

**UN proper shipping name:** n-Amyl Methyl Ketone

**Transport hazard class(es):** 3

**Subsidiary class(es):** -

**Packing group:** III

**Marine pollutant:** No

**Environmental hazards:** No

**Labels required:** 3

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:** Not applicable.

Section 15. Regulatory Information

**US Federal Regulations:** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**CERCLA Hazardous Substance List (40 CFR 302.4):** Not listed.

**US OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):** Not listed.

**SARA 304 Emergency release notification:** Not regulated.



**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):** Not listed.  
**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D):** Not regulated.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard categories**

**Immediate Hazard:** Yes

**Delayed Hazard:** No

**Fire Hazard:** Yes

**Pressure Hazard:** No

**Reactivity Hazard:** No

**SARA 302 Extremely hazardous substance:** Not listed.

**SARA 311/312 Hazardous chemical:** Yes

**SARA 313 (TRI reporting):** Not regulated.

**Other Federal Regulations**

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List:** Not regulated.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):**  
Not regulated.

**Safe Drinking Water Act (SDWA):** Not regulated.

**US State Regulations**

**US - Minnesota Haz Subs: Hazardous substance**

Methyl Amyl Ketone (CAS# 110-43-0) Hazardous substance.

**US Massachusetts RTK - Substance List**

Methyl Amyl Ketone (CAS# 110-43-0)

**US New Jersey Worker and Community Right-to-Know Act**

Methyl Amyl Ketone (CAS# 110-43-0)

**US Pennsylvania Worker and Community Right-to-Know Law**

Methyl Amyl Ketone (CAS# 110-43-0)

**US Rhode Island RTK**

Not regulated.

**US California Proposition 65**

**US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT):** Not listed.

**International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No



China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

\* A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

**HMIS Rating**

**Health:** 2

**Flammability:** 2

**Reactivity:** 0

Section 16. Other Information

**Disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

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