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MSDS

Material Safety Data Sheet

From: Mallinckrodt Baker, Inc.
222 Red School Lane
Phillipsburg, NJ 08865



24 Hour Emergency Telephone: 800-369-2151
CHEMTREC: 1-800-424-9300

National Response in Canada
CAUTEC: 015-893-4060

Outside U.S. and Canada
Chemtreat 202 488-7616

NOTE: CHEMTREC, CAUTEC and National Response Center emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals.

All non-emergency questions should be directed to Customer Service (1-800-582-2537) for assistance

2-Heptanone

MSDS Number: H0670 --- Effective Date: 09/08/97

1. Product Identification

Synonyms: Methyl Butyl Ketone
CAS No.: 110-43-0
Molecular Weight: 114.19
Chemical Formula: $\text{CH}_3(\text{CH}_2)_4\text{COCH}_3$
Product Codes: M994

2. Composition/Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
Methyl n-amyl Ketone	110-43-0	98 - 100%	Yes

3. Hazards Identification

Emergency Overview

WARNING! MAY FORM EXPLOSIVE PEROXIDES. COMBUSTIBLE LIQUID AND VAPOR. HIGH VAPOR CONCENTRATIONS MAY CAUSE DROWSINESS. TARGET ORGAN(S): Central nervous system, skin, respiratory system.

J.T. Baker SAF-T-DATA^(tm) Ratings (Provided here for your convenience)

Health Rating: 3 - Severe (Poison)
Flammability Rating: 2 - Moderate
Reactivity Rating: 1 - Slight
Contact Rating: 2 - Moderate
Lab Protective Equip: GOGGLES & SHIELD; LAB COAT & APRON; VENT HOOD;
PROPER GLOVES; CLASS B EXTINGUISHER
Storage Color Code: Red (Flammable)

Potential Health Effects

Inhalation:

Irritation of mucous membranes, severe irritation of respiratory system, may cause narcosis.

Ingestion:

Headache, nausea, vomiting, dizziness, gastrointestinal irritation, central nervous system depression.

Skin Contact:

Severe irritation, prolonged contact may cause dermatitis.

Eye Contact:

Severe irritation.

Chronic Exposure:

No information found.

Aggravation of Pre-existing Conditions:

No information found.

4. First Aid Measures

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Prompt action is essential.

Ingestion:

Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.

Skin Contact:

In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before re-use.

Eye Contact:

In case of eye contact, immediately flush with plenty of water for at least 15 minutes.

5. Fire Fighting Measures

Fire:

Flash point: 39C (102F) CC

Explosion:

Vapors may flow along surfaces to distant ignition sources and flash back. Closed containers exposed to heat may explode. Contact with strong oxidizers may cause fire. Sensitive to static discharge.

Fire Extinguishing Media:

Use alcohol foam, dry chemical or carbon dioxide. (Water may be ineffective.)

Special Information:

Firefighters should wear proper protective equipment and self-contained breathing apparatus with full facepiece operated in positive pressure mode. Move exposed containers from fire area if it can be done without risk. Use water to keep fire-exposed containers cool.

6. Accidental Release Measures

Wear self-contained breathing apparatus and full protective clothing. Shut off ignition sources; no flares, smoking or flames in area. Stop leak if you can do so without risk. Use water spray to reduce vapors. Take up with sand or other non-combustible absorbent material and place into container for later disposal. Flush area with water.

J. T. Baker SOLUSORB(tm) solvent adsorbent is recommended for spills of this product.

7. Handling and Storage

Keep container tightly closed. Store in a cool, dry, well-ventilated, flammable liquid storage area or cabinet. Do not store near oxidizing materials. Bond and ground containers when transferring liquid. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warnings and precautions listed for the product.

8. Exposure Controls/Personal Protection

Airborne Exposure Limits:

-ACGIH Threshold Limit Value (TLV):
50 ppm (TWA)

Ventilation System:

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

Personal Respirators (NIOSH Approved):

For conditions of use where exposure to the substance is apparent, consult an industrial hygienist. For emergencies, or instances where the exposure levels are not known, use a full-facepiece positive-pressure, air-supplied respirator. WARNING: Air purifying respirators do not protect workers in oxygen-deficient atmospheres.

Skin Protection:

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Eye Protection:

Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.

9. Physical and Chemical Properties

Appearance:

Colorless liquid.

Odor:

Faint ketone odor.

Solubility:

Slight (0.1-1%)

Specific Gravity:

0.82

pH:

No information found.

% Volatiles by volume @ 21C (70F):

100

Boiling Point:

149C (300F)

Melting Point:

No information found.

Vapor Density (Air=1):

Not applicable.

Vapor Pressure (mm Hg):

2.6 @ 20C (68F)

Evaporation Rate (BuAc=1):

No information found.

10. Stability and Reactivity

Stability:

Stable under ordinary conditions of use and storage.

Hazardous Decomposition Products:

Carbon monoxide, carbon dioxide.

Hazardous Polymerization:

Will not occur.

Incompatibilities:

Strong oxidizing agents.

Conditions to Avoid:

Heat, flame, other sources of ignition.

11. Toxicological Information

-----\Cancer Lists\-----			
Ingredient	---NTP Carcinogen---		IARC Category
	Known	Anticipated	
Methyl n-amil Ketone (110-43-0)	No	No	None

12. Ecological Information

Environmental Fate:

No information found.

Environmental Toxicity:

No information found.

13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to 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.

14. Transport Information

Domestic (Land, D.O.T.)

Proper Shipping Name: N-AMYL METHYL KETONE**Hazard Class:** 3**UN/NA:** UN1110**Packing Group:** III**Information reported for product/size:** 1KG**International (Water, I.M.O.)**

Proper Shipping Name: NORMAL-AMYL METHYL KETONE**Hazard Class:** 3.3**UN/NA:** UN1110

Packing Group: III

Information reported for product/size: 1KG

International (Air, I.C.A.O.)

Proper Shipping Name: N-AMYL METHYL KETONE

Hazard Class: 3

UN/NA: UN1110

Packing Group: III

Information reported for product/size: 1KG

15. Regulatory Information

-----\Chemical Inventory Status - Part 1\-----				
Ingredient	TSCA	EC	Japan	Australia
Methyl n-amyl Ketone (110-43-0)	Yes	Yes	Yes	Yes

-----\Chemical Inventory Status - Part 2\-----				
Ingredient	Korea	--Canada-- DSL	NDSL	Phil.
Methyl n-amyl Ketone (110-43-0)	Yes	Yes	No	Yes

-----\Federal, State & International Regulations - Part 1\-----				
Ingredient	-SARA 302- RQ	TPQ	-----SARA 313----- List	Chemical Catg.
Methyl n-amyl Ketone (110-43-0)	No	No	No	No

-----\Federal, State & International Regulations - Part 2\-----			
Ingredient	CERCLA	-RCRA- 261.33	-TSCA- 8 (d)
Methyl n-amyl Ketone (110-43-0)	No	No	No

Chemical Weapons Convention: No TSCA 12(b): No CDTA: No
 SARA 311/312: Acute: Yes Chronic: Yes Fire: Yes Pressure: No
 Reactivity: No (Pure / Liquid)

Australian Hazchem Code: 3[Y]

Poison Schedule: No information found.

WHMIS:

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

16. Other Information

Label Hazard Warning:

WARNING! MAY FORM EXPLOSIVE PEROXIDES. COMBUSTIBLE LIQUID AND VAPOR. HIGH VAPOR CONCENTRATIONS MAY CAUSE DROWSINESS. TARGET ORGAN(S): Central nervous system, skin, respiratory system.

Label Precautions:

Keep material away from heat, light and flame. Avoid contact with eyes and prolonged or repeated contact with skin.

Avoid breathing vapor. Use with adequate ventilation. Keep in tightly closed container. Wash thoroughly after handling. In case of fire, use alcohol foam, dry chemical or carbon dioxide. Water may be ineffective. In case of spill, soak up with sand or earth. Do not use water. Do not allow spill to enter drains, sewer system, or natural water supplies.

Label First Aid:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Prompt action is essential. In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

Product Use:

Laboratory Reagent.

Revision Information:**Disclaimer:**

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Prepared by: Strategic Services Division

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