

SAFETY DATA SHEET

Page: 1
Revision Date: 11/11/2009
Print Date: 12/3/2014
MSDS Number: R0016949
Version: 1.7

METHYL NORMAL AMYL KETONE DI-MAK

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

COMPANY IDENTITY:	DISTINCTIVE IMAGE
COMPANY ADDRESS:	50 Commerce Parkway Hodgenville, KY 42748
COMPANY PHONE:	1-800-223-1918
CHEMTREC PHONE:	1-800-424-9300
Product name	METHYL NORMAL AMYL KETONE
Product code	20661
Product Use Description	No data

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance: liquid,

WARNING! COMBUSTIBLE LIQUID AND VAPOR. MAY AFFECT THE CENTRAL NERVOUS SYSTEM CAUSING DIZZINESS, HEADACHE OR NAUSEA. MAY BE HARMFUL IF INHALED OR SWALLOWED. PROLONGED OR REPEATED CONTACT MAY DRY THE SKIN AND CAUSE IRRITATION AND BURNS.

Potential Health Effects

Exposure routes

Inhalation, Skin absorption, Skin contact, Eye Contact, Ingestion

Eye contact

May cause mild eye irritation. Symptoms include stinging, tearing, and redness.

Skin contact

May cause mild skin irritation. Prolonged or repeated contact may dry the skin. Symptoms may include redness, burning, drying and cracking of skin, and skin burns. Passage of this material into the body through the skin is possible, but it is unlikely that this would result in harmful effects during safe handling and use.

Ingestion

Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful.

Inhalation

SAFETY DATA SHEET

Page: 2
Revision Date: 11/11/2009
Print Date: 12/3/2014
MSDS Number: R0016949
Version: 1.7

METHYL NORMAL AMYL KETONE DI-MAK

Breathing of vapor or mist is possible. Breathing small amounts of this material during normal handling is not likely to cause harmful effects. Breathing large amounts may be harmful. Symptoms are not expected at air concentrations below the recommended exposure limits, if applicable (see Section 8.).

Aggravated Medical Condition

Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material:., Skin, lung (for example, asthma-like conditions)

Symptoms

Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include:., stomach or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat, airways), central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness)

Target Organs

No data

Carcinogenicity

This material is not listed as a carcinogen by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP), or the Occupational Safety and Health Administration (OSHA).

Reproductive hazard

There are no data available for assessing risk to the fetus from maternal exposure to this material.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Concentration
METHYL NORMAL AMYL KETONE	110-43-0	<=100%

4. FIRST AID MEASURES

Eyes

If symptoms develop, move individual away from exposure and into fresh air. Flush eyes gently with water while holding eyelids apart. If symptoms persist or there is any visual difficulty, seek medical attention.

Skin

Remove contaminated clothing. Wash exposed area with soap and water. If symptoms persist, seek medical attention. Launder clothing before reuse.

Ingestion

SAFETY DATA SHEET

Page: 3
Revision Date: 11/11/2009
Print Date: 12/3/2014
MSDS Number: R0016949
Version: 1.7

METHYL NORMAL AMYL KETONE DI-MAK

Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. Contact a physician, medical facility, or poison control center for advice about whether to induce vomiting. If possible, do not leave individual unattended.

Inhalation

If symptoms develop, move individual away from exposure and into fresh air. If symptoms persist, seek medical attention. If breathing is difficult, administer oxygen. Keep person warm and quiet; seek immediate medical attention.

Notes to physician

Hazards: No information available.

Treatment: No information available.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Water spray, Carbon dioxide (CO₂), Foam, Dry chemical

Hazardous combustion products

May form: carbon dioxide and carbon monoxide

Precautions for fire-fighting

If product is heated above its flash point it will produce vapors sufficient to support combustion. Vapors are heavier than air and may travel along the ground and be ignited by heat, pilot lights, other flames and ignition sources at locations near the point of release. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively. Wear full firefighting turn-out gear (full Bunker gear), and respiratory protection (SCBA).

Flammability Class for Flammable Liquids

Combustible Liquid Class II

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

For personal protection see section 8. Eliminate all ignition sources (flares, flames including pilot lights, electrical sparks). Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source. Prevent from entering drains, sewers, streams or other bodies of water. Prevent from spreading. If runoff occurs, notify authorities as required. Pump or vacuum transfer spilled product to clean containers for recovery. Absorb unrecoverable product. Transfer contaminated absorbent, soil and other materials to containers for disposal.

Environmental precautions

SAFETY DATA SHEET

Page: 4
Revision Date: 11/11/2009
Print Date: 12/3/2014
MSDS Number: R0016949
Version: 1.7

METHYL NORMAL AMYL KETONE DI-MAK

Prevent run-off to sewers, streams or other bodies of water. If run-off occurs, notify proper authorities as required, that a spill has occurred.

Methods for cleaning up

No data

7. HANDLING AND STORAGE

Handling

Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed. Emergency eyewash fountains and safety showers should be available in the immediate vicinity of potential exposure. Static ignition hazard can result from handling and use. Electrically bond and ground all containers, personnel and equipment before transfer or use of material. Special precautions may be necessary to dissipate static electricity for non-conductive containers. Use proper bonding and grounding during product transfer as described in National Fire Protection Association document NFPA 77. Warning. Sudden release of hot organic chemical vapors or mists from process equipment operating at elevated temperature and pressure, or sudden ingress of air into vacuum equipment, may result in ignitions without the presence of obvious ignition sources. Published "autoignition" or "ignition" temperature values cannot be treated as safe operating temperatures in chemical processes without analysis of the actual process conditions. Any use of this product in elevated temperature processes should be thoroughly evaluated to establish and maintain safe operating conditions.

Storage

Store in a cool, dry, ventilated area, away from incompatible substances. Do not store near extreme heat, open flame, or sources of ignition. Keep containers closed when not in use.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

METHYL NORMAL AMYL KETONE 110-43-0

ACGIH	time weighted average	50 ppm
NIOSH	Recommended exposure limit (REL):	100 ppm
NIOSH	Recommended exposure limit (REL):	465 mg/m ³
OSHA Z1	Permissible exposure limit	100 ppm
OSHA Z1	Permissible exposure limit	465 mg/m ³

General advice

These recommendations provide general guidance for handling this product. Personal protective equipment should be selected for individual applications and should consider factors which affect exposure potential, such as handling practices, chemical concentrations and ventilation. It is ultimately the responsibility of the employer to follow regulatory guidelines established by local authorities.

Exposure controls

SAFETY DATA SHEET

Page: 5
Revision Date: 11/11/2009
Print Date: 12/3/2014
MSDS Number: R0016949
Version: 1.7

METHYL NORMAL AMYL KETONE DI-MAK

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

Eye protection

Wear chemical splash goggles when there is the potential for exposure of the eyes to liquid, vapor or mist.

Skin and body protection

Wear normal work clothing including long pants, long-sleeved shirts and foot covering to prevent direct contact of the product with the skin. Launder clothing before reuse. If skin irritation develops, contact your facility health and safety professional or your local safety equipment supplier to determine the proper personal protective equipment for your use. Wear resistant gloves (consult your safety equipment supplier).

Respiratory protection

A NIOSH-approved air-purifying respirator with an appropriate cartridge and/or filter may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits (if applicable) or if overexposure has otherwise been determined. Protection provided by air-purifying respirators is limited. Use a positive pressure, air-supplied respirator if there is any potential for uncontrolled release, exposure levels are not known or any other circumstances where an air-purifying respirator may not provide adequate protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	liquid
Form	No data
Colour	No data
Odour	pungent, sweet, fruity
Boiling point/boiling range	No data
Melting point/range	-31.9 °F / -35.5 °C
pH	No data
Flash point	101.98 °F / 38.88 °C, Open Cup
Evaporation rate	0.4 (n-Butyl Acetate)
Explosion limits	1.1 %(V) 7.9 %(V)
Vapour pressure	0.21 kPa @ 77 °F / 25 °C
Vapour density	3.9 (AIR=1)
Density	(+/- 0.01) 0.8125 g/cm ³ @ 77.00 °F / 25.00 °C 6.8 lb/gal @ 68 °F / 20 °C
Solubility	slightly soluble in water
Partition coefficient: n-octanol/water	No data
log Pow	1.98

SAFETY DATA SHEET

Page: 6
Revision Date: 11/11/2009
Print Date: 12/3/2014
MSDS Number: R0016949
Version: 1.7

METHYL NORMAL AMYL KETONE DI-MAK

Autoignition temperature 740 °F / 393 °C

10. STABILITY AND REACTIVITY

Stability

Stable.

Conditions to avoid

Avoid contact with:

Incompatible products

Avoid contact with: Strong oxidizing agents

Hazardous decomposition products

carbon dioxide and carbon monoxide

Hazardous reactions

Product will not undergo hazardous polymerization.

Thermal decomposition

No data

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity

METHYL NORMAL AMYL KETONE LD 50 Rat: 1,670 mg/kg

Acute inhalation toxicity

METHYL NORMAL AMYL KETONE LC Lo Rat: 4000 ppm, 4 h

Acute dermal toxicity

METHYL NORMAL AMYL KETONE LD 50 Rabbit: 13,000 mg/kg

12. ECOLOGICAL INFORMATION

Aquatic toxicity

Acute and Prolonged Toxicity to Fish

No data

Acute Toxicity to Aquatic Invertebrates

No data

Environmental fate and pathways

SAFETY DATA SHEET

Page: 7
Revision Date: 11/11/2009
Print Date: 12/3/2014
MSDS Number: R0016949
Version: 1.7

METHYL NORMAL AMYL KETONE DI-MAK

No data

13. DISPOSAL CONSIDERATIONS

Waste disposal methods

Dispose of in accordance with all applicable local, state and federal regulations.

14. TRANSPORT INFORMATION

IMDG:

UN1110, AMYL METHYL KETONE (METHYL NORMAL AMYL KETONE,) 3, III

IATA_P:

UN1110, n-Amyl methyl ketone (METHYL NORMAL AMYL KETONE,) 3, III

IATA_C:

UN1110, n-Amyl methyl ketone (METHYL NORMAL AMYL KETONE,) 3, III

CFR_ROAD:

UN1110, n-Amyl methyl ketone (METHYL NORMAL AMYL KETONE,) 3, III

CFR_RAIL:

UN1110, n-Amyl methyl ketone (METHYL NORMAL AMYL KETONE,) 3, III

CFR_INWTR:

UN1110, n-Amyl methyl ketone (METHYL NORMAL AMYL KETONE,) 3, III

IMDG_ROAD:

UN1110, AMYL METHYL KETONE (METHYL NORMAL AMYL KETONE,) 3, III

IMDG_RAIL:

UN1110, AMYL METHYL KETONE (METHYL NORMAL AMYL KETONE,) 3, III

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

15. REGULATORY INFORMATION

California Prop. 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

SARA Hazard Classification Fire Hazard
 Acute Health Hazard

New Jersey RTK Label Information
METHYL NORMAL AMYL KETONE
Pennsylvania RTK Label Information

110-43-0

SAFETY DATA SHEET

Page: 8
Revision Date: 11/11/2009
Print Date: 12/3/2014
MSDS Number: R0016949
Version: 1.7

METHYL NORMAL AMYL KETONE DI-MAK

METHYL NORMAL AMYL KETONE

110-43-0

Reportable quantity - Components

METHYL NORMAL AMYL KETONE 110-43-0 none

HMIS AND NFPA CODES	Health	Flammability	Reactivity	Other
HMIS	1*	2	0	
NFPA	1	2	0	

16. OTHER INFORMATION

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.