

## SAFETY DATA SHEET: METHYL ISOBUTYL KETONE

### 1. IDENTIFICATION

Product Name: METHYL ISOBUTYL KETONE  
Synonyms: 4-Methyl-2-pentanone; MIBK; hexone  
Formula and Formula Weight: C<sub>6</sub>H<sub>12</sub>O 100.16

Recommended Use: General solvent use  
Restrictions on Use: No information available

HWATSI CHEMICAL PRIVATE LIMITED

Plot No. 587/586, Kandla Special Economic Zone , Gandhidham, Kutch 370230

H.O : Antop Hill Warehousing Complex, Ú - 332 & 311, Wadala (E), Mumbai - 400037.

TEL NO. +91 9821727511/+91 9869056097

Email : [hwatsi.cpltd@gmail.com](mailto:hwatsi.cpltd@gmail.com) | [bharat@hwatsichem.com](mailto:bharat@hwatsichem.com) [www.hwatsichem.com](http://www.hwatsichem.com)

### 2. HAZARDS IDENTIFICATION

OSHA Classification:	Hazard Category:	Hazard Statement:
Acute Toxicity - Inhalation	4	Harmful if inhaled.
Specific Target Organ Toxicity (single exposure)	3	May cause respiratory irritation.
Flammable Liquids	2	Highly flammable liquid and vapor.

Signal Word: DANGER



#### Precautionary Statements

##### Prevention:

Keep away from heat, sparks, open flames, hot surfaces. – No smoking.  
Keep container tightly closed.  
Ground, bond container and receiving equipment. Use only non-sparking tools.  
Use explosion-proof electrical, ventilating, lighting, equipment and take precautionary measures against static discharge.  
Avoid breathing fume, gas, mist, vapors, spray.  
Use only outdoors or in a well-ventilated area.  
Wear protective gloves, eye protection, face protection.

##### Response

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water, shower.  
If inhaled: Remove person to fresh air and keep comfortable for breathing.  
Call a poison center, doctor if you feel unwell.

##### Storage

Store locked up in a well ventilated place. Keep container tightly closed.

##### Disposal

Dispose of contents, container in accordance with all governmental regulations.

Hazards Not Otherwise Classified: No information available

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Synonyms	CAS #	% Weight
Methyl isobutyl ketone	4-Methyl-2-pentanone; MIBK; Hexone	00108-10-1	100

#### 4. FIRST AID MEASURES

Inhalation:	Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. If breathing is difficult administer oxygen. Seek medical attention.
Eye Contact:	Flush eyes with water for at least 15 minutes. Seek immediate medical attention.
Skin Contact:	Remove contaminated clothing. Flush skin with plenty of water. Seek medical attention.
Ingestion:	Do not induce vomiting. If victim is conscious, rinse mouth, give water. Never give anything by mouth to an unconscious person. Seek immediate medical attention.
Additional notes:	Symptoms and effects include irritation, dizziness, headache, weakness.

#### 5. FIRE-FIGHTING MEASURES

Extinguishing Media:	Carbon dioxide, dry chemical or alcohol foam. Water may be ineffective.
Special Equipment and Precautions:	Use water to cool nearby containers and structures. Wear full protective equipment, including suitable respiratory protection.
Specific Hazards:	Vapors may flow along surfaces to distant ignition sources and flash back. Vapors are heavier than air and will settle in low areas. Material may float on water and re-ignite. Vapor/air mixtures may be explosive.
Hazardous combustion products:	Oxides of carbon.

#### 6. ACCIDENTAL RELEASE MEASURES

Spill Procedures:	Remove all potential ignition sources. Prevent spread of spill. Wear full protective equipment including suitable respiratory protection. Absorb with sand or inert material. Place into suitable container for disposal.
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#### 7. HANDLING AND STORAGE

Incompatible Materials:	Incompatible with strong oxidizers. Strong reducing agents. Acids, bases, amines, halogenated materials, potassium tert-butoxide .
Storage and Handling:	Store locked up in a cool, dry, well-ventilated flammable liquids storage area or cabinet away from incompatible materials. Keep away from heat and ignition sources. Keep containers tightly closed and protect them from physical damage. Bond and ground containers when transferring liquid. Use only non-sparking tools and take precautionary measures against static discharge. No smoking. Protect from air and light.  Methyl isobutyl ketone may form peroxides on long standing with exposure to air and light. Do not evaporate to near dryness. Test for peroxide content before distilling.  Keep away from heat, sparks, open flames, hot surfaces. – No smoking. Keep container tightly closed. Ground, bond container and receiving equipment. Use only non-sparking tools. Use explosion-proof electrical, ventilating, lighting, equipment and take precautionary measures against static discharge. Avoid breathing fume, gas, mist, vapors, spray. Use only outdoors or in a well-ventilated area. Wear protective gloves, eye protection, face protection.

#### 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

OSHA & ACGIH Exposure Limits:	
Methyl isobutyl ketone	OSHA TWA: 100 ppm; 410 mg/m <sup>3</sup> ACGIH TWA: 20 ppm; 82 mg/m <sup>3</sup> ACGIH STEL: 75 ppm; 307 mg/m <sup>3</sup>
Engineering Controls:	Use general or local exhaust ventilation to meet TLV and PEL requirements.
Respiratory Protection:	Respiratory protection required if airborne concentrations exceed PEL or TLV. Use a NIOSH approved full facepiece chemical cartridge respirator with an organic vapor cartridge.
Skin/Eye Protective Equipment:	Safety goggles, protective clothing and gloves appropriate for the risk of exposure. Facilities storing or utilizing this material should have readily accessible eyewash stations and safety showers. Select respirators and other safety equipment in accordance with regulations and based upon the particular conditions of use and risk of exposure. Always use safe chemical-handling and good industrial hygiene practices.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear, colorless liquid.
Odor:	Sweet, sharp, minty odor.
Odor Threshold:	No information available
pH:	No information available
Melting/Freezing Point:	-85 °C
Initial Boiling Point and Boiling Range:	117 °C
Flash Point:	16 °C
Evaporation Rate:	1.6 Butyl Acetate=1
Flammability:	Flammable

Flammable or Explosive Limits (% by volume in air)  
 Vapor Pressure:  
 Vapor Density:  
 Relative Density:  
 Solubility:  
 Partition Coefficient: n-octanol/water  
 Auto-Ignition Temperature: Decomposition Temperature: Viscosity:  
 Upper: 7.5  
 Lower: 1.4  
 15 mm Hg @20°C  
 3.5  
 0.8 Water=1 Approximately 2% in water. 1.38  
 448 °C  
 No information available No information available

**10. STABILITY AND REACTIVITY**

Reactivity: No information available  
 Stability: Stable  
 Possibility of Hazardous Reactions: Hazardous polymerization will not occur. Explosive vapor/air mixtures may form. Peroxides may form on long  
 Conditions to Avoid: Heat, sparks and open flame. Exposure to air and light.  
 Incompatibles: Incompatible with strong oxidizers. Strong reducing agents. Acids, bases, amines, halogenated materials, potassium tert-butoxide .  
 Decomposition Products: Oxides of carbon.

**11. TOXICOLOGICAL INFORMATION**

Effects of Over Exposure:  
 Inhalation: Harmful if inhaled. Symptoms include respiratory tract irritation, coughing, dizziness, dullness and headache. High concentrations can produce central nervous system depression, narcosis and unconsciousness.  
 Skin Contact: May cause skin irritation. Prolonged contact may cause dermatitis.  
 Eye Contact: May irritate or burn the eyes.  
 Ingestion: Harmful if swallowed. Ingestion may cause headache, dizziness, nausea, vomiting, gastrointestinal irritation. Aspiration may result in chemical pneumonitis  
 Chronic Effects: Dermatitis  
 Target Organs: Brain, central nervous system, eyes, skin, respiratory system, liver, kidneys  
 Additional Effects: May aggravate pre-existing skin conditions, respiratory conditions  
 Reproductive Effects: This material may be teratogenic.  
 Carcinogenicity: Methyl isobutyl ketone is listed by the IARC as Group 2B, Possible Human Carcinogen.

Toxicity Data:

Methyl isobutyl ketone	Irritation (skin, rabbit)	mild 500 mg/24 hr
	LC50 (inhalation, mouse)	23300 mg/m3
	LD50 (oral, rat)	2080 mg/kg

**12. ECOLOGICAL INFORMATION**

	<u>Aquatic Toxicity Data:</u>	<u>Terrestrial Toxicity Data:</u>
Methyl isobutyl ketone	LC50 Leuciscus idus melanotus: 480 mg/L	No information available
Persistence and degradability:	No information available	
Bioaccumulative potential:	No information available	
Mobility in soil:	No information available	
Other adverse effects:	No information available	

**13. DISPOSAL CONSIDERATIONS**

Disposal Procedures: Dispose of material and containers in accordance with all local, state and federal regulations.

**14. TRANSPORTATION INFORMATION**

This product is a regulated material for domestic ground transportation, per CFR Title 49.

UN Number: UN1245  
 Proper Shipping Name: Methyl isobutyl ketone  
 Packing Group: II  
 Hazard Class: 3  
 Environmental hazards: No information available  
 Special precautions: No information available

**15. REGULATORY INFORMATION**

Bulk transport:

No information available

Methyl isobutyl ketone is listed in the TSCA inventory and in SARA 313.

**16. OTHER INFORMATION**

OSHA SDS #: 25941 rev 101 3/27/2015

NE = Not established, NA = Not applicable or Not available

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\*\*\*\*\* END OF SDS \*\*\*\*\*