

Material Safety Data Sheet

Section 1. Product Identification and Use

Product Name - Trade Name **100-123 METHYL ETHYL KETONE**

Supplier - Manufacturer **Chemcraft International Inc.,**
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Canada L1A 3Z3

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For Transport Emergency or After Hours

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Code 100-123

Synonym METHYL ETHYL KETONE

Chemical Name Not applicable.

Chemical Family Synthetic polymer in organic solvent. (Paint.)

Chemical Formula Not applicable.

Material Uses Coatings: Surface coatings and finishes.

Product Identification Number (PIN) 1193 ETHYL METHYL KETONE

Section 2. Hazardous Ingredients

Exposure limits

Name	CAS #	% by Weight	LC ₅₀ /LD ₅₀	TLV/PEL
Methyl ethyl ketone	78-93-3	70 - 100	ORAL (LD50): Acute: 3000 mg/kg [Mouse]. 2737 mg/kg [Rat]. DERMAL (LD50): Acute: 6480 mg/kg [Rabbit].	TWA: 200 ppm 8 hour/hours. STEL: 300 ppm 15 minute/minutes. CEIL: 300 ppm

Trace impurities and additional material names not listed above may appear in other sections of this MSDS. These materials may be listed for toxicological concerns, local compliance, or other reasons.

Section 3. Physical Data

Physical State and Appearance Liquid.

Color Not available. Odor Not available. Taste Not available.

Molecular Weight Not applicable.

pH (1% soln/water) Not available.

Boiling Point The lowest known value is 80°C (176°F) (2-Butanone).

Melting Point May start to solidify at -85°C (-121°F) based on data for: 2-Butanone.

Critical Temperature Not available.

Specific Gravity The only known value is 0.815 (Water = 1) (2-Butanone).

Vapor Pressure The highest known value is 10.3 kPa (77.5 mm Hg) (at 20°C) (2-Butanone).

Vapor Density The highest known value is 2.5 (Air = 1) (2-Butanone).

Volatility Not available.

Odor Threshold The lowest known value is 0.25 ppm (2-Butanone)

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Water/Oil Dist. Coeff.	Not available.
Ionicity (in Water)	Not available.
Dispersion Properties	See solubility in water, methanol, acetone.
Solubility	Easily soluble in methanol, acetone. Soluble in cold water, hot water.

Section 4. Fire and Explosion Hazard

The Product is:	Flammable.
Fire Hazards in Presence of Various Substances	Highly flammable in the presence of the following materials or conditions: open flames, sparks and static discharge.
Fire Fighting Media and Instructions	SMALL FIRE: Use dry chemical powder. LARGE FIRE: Use alcohol-resistant foam or water spray or fog. Cool containers with water jet in order to prevent pressure build-up, auto-ignition or explosion.
Special Remarks on Fire Hazards	Not available.
Flash Points	Closed cup: -6°C (21.2°F). (Tagliabue.)
Flammable Limits	The greatest known range is Lower: 1.8% Upper: 10% (2-Butanone)
Auto-Ignition Temperature	The lowest known value is 460°C (860°F) (2-Butanone).
Products of Combustion	These products are carbon oxides (CO, CO ₂).
Explosion Hazards in Presence of Various Substances	Highly explosive in the presence of the following materials or conditions: open flames, sparks and static discharge.
Special Remarks on Explosion Hazards	Not available.

Section 5. Reactivity Data

Stability	The product is stable.
Decomposition products	Not available.
Conditions of Instability	Not available.
Incompatibility with various substances	Slightly reactive or incompatible with the following materials: oxidizing materials and acids.
Corrosivity	Not available.
Special Remarks on Reactivity	Not available.
Special Remarks on Corrosivity	Not available.

Section 6. Toxicological Properties

Routes of Entry	Dermal contact. Eye contact. Inhalation. Ingestion.
Toxicity to Animals	Acute oral toxicity (LD50): 2737 mg/kg (Rat) (Calculated value for the mixture). Acute dermal toxicity (LD50): 6480 mg/kg (Rabbit) (Calculated value for the mixture). Acute toxicity of the gas (LC50): 11286 ppm 4 hour/hours (Rat) (Calculated value for the mixture). Acute toxicity of the vapor (LC50): 10867 ppm 4 hour/hours (Mouse) (Calculated value for the mixture).
Effects of Acute Exposure	Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation. Non-sensitizer to skin.
Chronic Effects on Humans	CARCINOGENIC EFFECTS: Classified A5 (Not suspected for humans.) by ACGIH, 4 (Probably not for humans.) by IARC, None. by OSHA [2-Butanone]. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. Repeated or prolonged exposure is not known to aggravate any medical condition.

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Special Remarks on Toxicity to Animals	Not available.
Special Remarks on Chronic Effects on Humans	Not available.
Special Remarks on Other Toxic Effects on Humans	Not available.
Exposure Limits	Not available.

Section 7. Preventive Measures

Personal Protection	Safety glasses. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Impervious gloves.	
Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Vapor respirator. Boots. Gloves. Self-contained breathing apparatus (SCBA) should be used to avoid inhalation of the product. Suggested protective clothing might not be adequate. Consult a specialist before handling this product.	
Engineering Controls	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Ensure that eyewash stations and safety showers are close to the workstation location.	
Small Spill	Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container.	
Large Spill	Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with dry earth, sand or other non-combustible material. Do not touch spilled material. Prevent entry into sewers, basements or confined areas. Dike if necessary.	
Waste Disposal	Waste must be disposed of in accordance with federal, state and local environmental control regulations.	
Precautions	Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapor/spray. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes.	
Storage	Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).	
TDG Classification	3	
PIN	1193 ETHYL METHYL PG: II KETONE	
Special Provisions for Transport	-	
Federal and State Regulations	SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Methyl Ethyl Ketone: Fire hazard, Immediate (acute) health hazard CERCLA: Hazardous substances.: Methyl Ethyl Ketone;	
Other Regulations	OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).	
Other Classifications	WHMIS (Canada)	Class B-2: Flammable liquid Class D-2A: Material causing other toxic effects (Very toxic).
	HCS (U.S.A.)	Flammable liquid
Hazardous Material Information System (U.S.A.)	Health Hazard	2
	Fire Hazard	3
	Reactivity	0
	Personal Protection	G
National Fire Protection Association (U.S.A.)	Health	2
	Fire Hazard	3
	Reactivity	0
	Specific Hazard	

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Section 8. First Aid Measures

Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention if irritation occurs.
Skin Contact	Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops. Cold water may be used.
Hazardous Skin Contact	Not available.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms appear.
Hazardous Inhalation	Move the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek medical attention.
Ingestion	Do not induce vomiting. Examine the lips and mouth to ascertain if the tissues are damaged, a possible indication that toxic material was ingested. The absence of such signs, however, is not conclusive. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.
Hazardous Ingestion	Not available.

Section 9. Preparation Information

References	-Manufacturers Material Safety Data Sheets.
Other Special Considerations	Not available.
Related Information	This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by CPR.
Preparation Information	Validated by K. William on 2/28/2006. Verified by K. William. Printed 9/19/2006.
Information Contact	Prepared by the Health, Safety and Environment Department, Chemcraft International Inc., P.O. Box 458, 155, Rose Glen Road North, Port Hope, ON. Canada. Phone: 905 885-6388 Fax: 905 885-5097

Notice to Reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.