

SAFETY DATA SHEET



DATE PRINTED	6/23/2017
SDS REF. No :	MI-100

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: METHYL ISOBUTYL KETONE
Product Code: MI-100

Manufacturer
LANCO MFG.CORP.
URB. APONTE # 5

24 HR. Emergency Telephone Number
CHEMTREC (US Transportation): 1 (800)424-9300
CHEMTREC (International Transportation) : 1(703)527-3887

SAN LORENZO, PUERTO RICO, 00754
787-736-4221

2. HAZARDS IDENTIFICATION

Classification (substance or mixture):

Category 2 (Flammable liquid)
Category 4 Acute Toxicity, Inhalation
Category 2A Eyes irritation
Category 3 Target organ Systemic Toxicity (single exposure)

GHS Label Elements:



Signal Word: Danger

Hazard Statements:

H225 Highly flammable liquid and vapor.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.

Precautionary Statement:

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 dust/fume/gas/mist/vapors/spray.
P264 Wash hands thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P304+P340: IF INHALED: Removed victim to fresh air and keep at rest in a position 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.
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.
P501: Dispose of contents/container to an approved waste disposal plant.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Weight %	CAS Number
Methyl isobutyl ketone	100.0%	108-10-1

* Toxic chemical subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.

4. FIRST AID MEASURES

Eyes: In case of eye contact, flush with large amount of water for at least 15 minutes. Get medical assistant.

Skin: Immediately wash skin with soap and plenty of water.
Get medical attention if irritation develops or persist.

Ingestion: Do not induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

Inhalation: If affected, remove from exposure. Restore breathing. Keep warm and quiet.

Notes To Physician: Treat symptomatically.

5. FIREFIGHTING MEASURES

Suitable Extinguishing Media: Carbone Dioxide, Dry Chemical, Foam, Water Fog.

Unsuitable Extinguishing Media: Do not use direct water stream. Straight or direct water streams may not be effective to extinguish fire.

Specific Hazard In Case Of Fire: Closed containers may explode when exposed to extreme heat. Vapor may form explosive mixture with air. No unusual fire or explosion hazard noted. Keep containers closed when not in use.

Special Protective Equipment And Precaution For Fire Fighters: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus should be used. Water may be used to cool closed containers to prevent pressure build-up and possible auto-ignition or explosion when exposed to extreme heat.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Avoid contact with skin, eyes and clothing. Ensure adequate ventilation.

Environmental Precautions: Do not allow spill to enter drains or waterways. Use good personal hygiene practices. Wash hands before eating, drinking, or smoking. Promptly remove soiled clothing and wash thoroughly before reuse.

Method And Materials For Containment And Cleaning Up: Small spills: Absorb with materials such as: Sand. Vermiculite. Large spills: Contain spilled material if possible. Ground and bond all containers and handling equipment. Pump with explosion-proof equipment. If available, use foam to smother or suppress. Collect in suitable and properly labeled containers.

7. HANDLING AND STORAGE

Precaution For Safe Handling: Avoid contact with skin, eyes and clothing. Avoid breathing vapors, spray mist or sanding dust. In case of insufficient ventilation, wear suitable respiratory equipment.

Conditions For Safe Storage, Including Incompatibilities: Handle containers carefully to prevent damage and spillage. Incompatible materials: Alkaline materials, strong acid and oxidizing materials.

Minimize sources of ignition, such as static build-up, heat, spark or flame. Keep container closed. Flammable mixtures may exist within the vapor space of containers at room temperature. Avoid prolonged storage with exposure to air due to peroxide formation. Test every 12 months for the presence of peroxide.

8. EXPOSURE CONTROLS\PERSONAL PROTECTION

Exposure Limits

Components	CAS	Limits
Methyl isobutyl ketone	108-10-1	ACGIH TWA 20 ppm ACGIH STEL 75 ppm OSHA Z-1 TWA 410 mg/m ³ 100 ppm ACGIH TWA BEI ACGIH STEL BEI

Engineering Controls: Use appropriate engineering control such as process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Good general ventilation should be sufficient to control airborne levels. Where such system are not effective wear suitable personal protective equipment, which performs satisfactorily and meet OSHA or other recognized standards. Consult with local procedures for selection, training, inspection and maintenance of the personal protective equipment.

Personal Protective Equipment:

Respiratory Protection: In case of insufficient ventilation wear suitable respiratory equipment.

Eyes Protection: Safety glasses with side-shields.

Skin Protection: Chemical -resistance gloves and chemical goggles, face-shield and synthetic apron or coveralls should be used to prevent contact with eyes, skin or clothing.

Work Hygienic Practices: Ensure shower and eyewash station are available. Use good personal hygiene practices. Wash hand before eating, drinking. Promptly remove soiled clothing and wash thoroughly before reuse.

Other Use Precautions: None

Comments: No information available.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid

Color: Colorless

Flash Point And Method: >15°C (59°F) CLOSED CUP

Auto-Ignition Temperature: 448-460 °C (838-860°F)

Boiling Point/Range (760 mmHg): 116.1°C (241.0°F)

Melting Point: -84°C (-119°F)

Vapor Pressure: 2.64 kPa at 25°C (77°F)

Vapor Density: Heavier than Air 3.5

Solubility in Water: 14.1 g/L at 20°C (68°F)

Odor: Solvent odor

Upper /Lower Flammable Limits: 8.0% / 1.2%

Relative Density (g/cm³): 0.801 at 20°C (68°F) / 20°C

Evaporation Rate: (Butyl Acetate) 1.6

Flammability (Solids, Gas): Not available

Partition Coefficient: log Pow:1.9

pH: Not applicable

Decomposition Temperature: Not available

Coating VOC (gm/l): Not applicable

Material VOC (gm/l): Not applicable

10. STABILITY AND REACTIVITY

Chemical Stability: Stable under recommended storage conditions.

Possibility Of Hazardous Reactions: Polymerization will not occur.

Conditions To Avoid: Avoid prolonged exposure to air to reduce formation of explosive peroxides. Exposure to elevated temperatures can cause product to decompose. Avoid static discharge.

Materials To Avoid: Keep away from the following materials to prevent strong exothermic reaction: oxidizing agents, strong alkalis, strong acids.

Hazardous Decomposition Products: Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

11. TOXICOLOGICAL INFORMATION

Signs And Symptoms Of Overexposure: No information available.

Acute Effects:

Eye Contact: Cause serious eyes irritation.

Skin Contact: Substance may cause slight skin irritation. Prolonged or repeated contact may cause skin irritation. Allergic reactions are possible.

Inhalation: Harmful if inhaled. High vapor concentration are irritating to the eyes, nose, throat and lungs. Prolonged or excessive inhalation may cause respiratory tract irritation.

Ingestion: Aspiration hazard if swallowed; can enter lungs and cause damage. Harmful if swallowed.

Target Organ: No information available.

Chronic Effects: No information available.

Toxicity Values: The acute effects of this product have not been tested. Data on individual components are tabulated below.

TOXICOLOGICAL INFORMATION

Methyl isobutyl ketone (108-10-1)	
LD50 Rat Oral	2,080 mg/kg
LC50 Rat inhalation (male)	8.2-16.4 mg/l , 4 hour
LD50 Rat Dermal (male and female)	>2,000 mg/kg

CARCINOGENICITY: The information below indicates whether each agency has listed any ingredient as a carcinogen:

Components	CAS	Carcinogen (IARC and ACGIH)
Methyl isobutyl ketone	108-10-1	2B:Possibly carcinogenic to humans A3: Confirmed animal carcinogen with unknown relevance to humans.

12. ECOLOGICAL INFORMATION

Persistence And Degradability: No information available.

Bio-Accumulative Potential: No information available.

Mobility In Soil: No information available.

Other Adverse Effects: No information available.

Eco-toxicological Other Information: No information available.

ECOLOGICAL INFORMATION

Methyl isobutyl ketone (108-10-1)	
LC50 Fish	>100 mg/l
LC50 Danio rerio (zebra fish)	>179 mg/l, 96 hour, OECD Test Guideline 203
EC50 Daphnia magna (Water flea)	>200 mg/l, 48 hour, OECD Test Guideline 202
EC50 Pseudokirchneriella subcapitata (Green algae)	400 mg/l, 96 hour, OECD Test Guideline 201
EC50 Lemna minor (duckweed)	>146 mg/l, 7 days, OECD Test Guideline 221

13. DISPOSAL CONSIDERATIONS

Disposal Method: Consult with the US EPA Guidelines listed in 40 CFR Part 261.3 for the classifications of hazardous waste prior to disposal. Furthermore, consult with your state and local waste requirements or guidelines, if applicable, to ensure compliance. Arrange disposal in accordance to the EPA and /or state and local guidelines.

14. TRANSPORT INFORMATION

	DOT	IMDG	AIR (IATA)
UN Number	UN1245	1245	1245

UN Proper Shipping Name	Methyl isobutyl ketone	Methyl isobutyl ketone	Methyl isobutyl ketone
Hazard Class	3	3	3
Packing Group	II	II	II
Environmental Hazard	No	No	No
Marine Pollutant (Y/N)	No	No	No

15. REGULATORY INFORMATION

U.S. Regulations:

U.S. SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 Hazard Categories: Hazardous Information

Fire: Yes

Pressure Generating: No

Reactivity: No

Acute: Yes

Chronic: Yes

313 Reportable Ingredients: This product contains a chemical or chemicals which are subject to the reporting requirements of section 313 of title 40 CFR 372.

313 REPORTABLE INGREDIENTS

Chemical Name	Weight %	CAS
*Methyl isobutyl ketone	100%	108-10-1

302/304 Emergency Planning

Emergency Plan: No

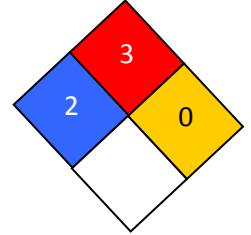
State Regulations: No

Other Govt. Regulations: No

16. OTHER INFORMATION

HMIS RATING	
Health :	2
Flammability :	3
Reactivity :	0
Personal Protection :	H

NFPA CODES



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Revision Indicator: None

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