

# A. G. Layne, Inc.

## SAFETY DATA SHEET

**SDS Distribution:** The information in this document should be made available to all who may handle the product.

A.G. Layne, Inc. urges each customer or recipient of this SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. It is the Buyer's/User's responsibility to ensure that his activities comply with all Federal, State, Provincial or Local laws. The information presented here pertains only to the product as shipped. The information contained herein is based on our current knowledge of the underlying data and is intended to describe the product for the purpose of health, safety and environmental requirements only. NO warranty or guarantee is expressed or implied regarding the accuracy of this data or the results to be obtained from the use of the product.

**Product ID Methyl Isobutyl Ketone**

# SAFETY DATA SHEET

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## SECTION 1) CHEMICAL PRODUCT AND SUPPLIER'S IDENTIFICATION

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**Product ID:** Methyl Isobutyl Ketone  
**Product Name:** Methyl Isobutyl Ketone  
**Revision Date:** May 22, 2015 **Date Printed:** Sep 23, 2015  
**Version:** 1.1 **Supersedes Date:** May 22, 2015  
**Manufacturer's Name:** A. G. Layne, Inc.  
**Address:** 4578 Brazil Street Los Angeles, CA, US, 90039  
**Emergency Phone:** CHEMTREC US : 1-800-424-9300, INTERNATIONAL CALLS : 1-703-527-3887  
**Information Phone:** 323-245-2345  
**Fax:**  
**Product/Recommended Uses:** Paints and coatings and other formulary applications

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## SECTION 2) HAZARDS IDENTIFICATION

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### Classification:

Specific Target Organ Toxicity -Single Exposure (Respiratory Tract Irritation) - Category 3  
Skin Irritation - Category 3  
Carcinogenicity - Category 2  
Eye Irritation - Category 2  
Flammable Liquids Category 2  
Acute toxicity, Inhalation - Category 4  
Acute toxicity, Oral - Category 4

### Pictograms:



### Signal Word:

Danger

### Hazardous Statements - Physical:

Highly flammable liquid and vapor

### Hazardous Statements - Health:

Harmful if inhaled  
Harmful if swallowed  
Suspected of causing cancer (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)  
Causes serious eye irritation  
Causes mild skin irritation  
May cause respiratory irritation

### Precautionary Statements - General:

If medical advice is needed, have product container or label at hand.  
Keep out of reach of children.  
Read label before use.

**Precautionary Statements - Prevention:**

- Avoid breathing dust/fume/gas/mist/vapors/spray.
- Use only outdoors or in a well-ventilated area.
- Wash with soap and water thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Wear protective gloves/protective clothing/eye protection/face protection.
- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- Keep container tightly closed.
- Ground/bond container and receiving equipment.
- Use explosion-proof electrical/ventilating/lighting equipment.
- Use only non-sparking tools.
- Take action to prevent static discharges.

**Precautionary Statements - Response:**

- IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- Call a POISON CENTER/doctor if you feel unwell.
- IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
- IF exposed or concerned: Get medical advice/attention.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- If eye irritation persists: Get medical advice/attention.
- IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse with water or shower.
- In case of fire: Use DRY chemical, alcohol- resistant foam, water spray/fog or carbon-dioxide to extinguish.
- If skin irritation occurs: Get medical advice/attention.

**Precautionary Statements - Storage:**

- Store locked up.
- Store in a well-ventilated place. Keep cool.
- Store in a well-ventilated place. Store locked up.

**Precautionary Statements - Disposal:**

- Dispose of contents/container to disposal recycling center.
- Waste management should be in full compliance with federal, state and local laws.

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**SECTION 3) COMPOSITION / INFORMATION ON INGREDIENTS**

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CAS	Chemical Name	% By Weight
0000108-10-1	METHYL ISOBUTYL KETONE	80% - 100%

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**SECTION 4) FIRST-AID MEASURES**

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**Inhalation:**

- Remove source of exposure or move person to fresh air and keep comfortable for breathing. If victim is not breathing, call 911 and administer CPR as directed.
- Eliminate all ignition sources if safe to do so.

**Skin Contact:**

- Rinse/wash with lukewarm, gently flowing water (and mild soap) for 15-20 minutes or until product is removed. If skin irritation occurs or you feel unwell: Get medical advice/attention.

**Eye Contact:**

- Remove source of exposure or move person to fresh air. Rinse eyes cautiously with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing. Take care not to rinse contaminated water into the unaffected eye or onto the face. Get immediate medical attention.

**Ingestion:**

Do NOT induce vomiting. If vomiting occurs naturally, lie on your side, in the recovery position. Immediately call 911 POISON CENTER/doctor/. Immediately transport to the nearest medical facility for treatment.

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## SECTION 5) FIRE-FIGHTING MEASURES

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### Suitable Extinguishing Media:

Dry chemical, foam, carbon dioxide or fog is recommended. Water spray is recommended to cool or protect exposed materials or structures. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces. Simultaneous use of foam and water on the same surface is to be avoided as water destroys the foam. Sand or earth may be used for small fires only.

### Unsuitable Extinguishing Media:

No data available.

### Specific Hazards in Case of Fire:

No data available.

### Fire-fighting Procedures:

Isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done safely. Move undamaged containers from immediate hazard area if it can be done safely. Water spray may be useful in minimizing or dispersing vapors and to protect personnel.

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

### Special Protective Actions:

Wear protective pressure self-contained breathing apparatus (SCBA) and full turnout gear.

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## SECTION 6) ACCIDENTAL RELEASE MEASURES

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### Emergency Procedure:

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).

RELEASE CAN CAUSE FIRE/EXPLOSION. LIQUIDS/VAPORS MAY IGNITE.

Do not touch or walk through spilled material.

Isolate hazard area and keep unnecessary people away. Remove all possible sources of ignition in the surrounding area. Notify authorities if any exposure to the general public or the environment occurs or is likely to occur.

If spilled material is cleaned up using a regulated solvent, the resulting waste mixture may be regulated.

### Recommended Equipment:

Positive pressure, full-facepiece self-contained breathing apparatus (SCBA), or positive pressure supplied air respirator with escape SCBA (NIOSH approved).

### Personal Precautions:

Avoid breathing vapor. Avoid contact with skin, eye or clothing. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Use explosive proof equipment. Avoid inhalation of dust and contact with skin and eyes. Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing.

### Environmental Precautions:

Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems and natural waterways by using sand, earth, or other appropriate barriers.

### Methods and Materials for Containment and Cleaning up:

Sand, clay and absorbent socks can be used to contain a spill.

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## SECTION 7) HANDLING AND STORAGE

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### General:

Wash hands after use.

Do not get in eyes, on skin or on clothing.

Do not breathe vapors or mists.

Use good personal hygiene practices.

Eating, drinking and smoking in work areas is prohibited.

Remove contaminated clothing and protective equipment before entering eating areas.

Eyewash stations and showers should be available in areas where this material is used and stored.

### Ventilation Requirements:

Use only with adequate ventilation to control air contaminants to their exposure limits. The use of local ventilation is recommended to control emissions near the source.

### Storage Room Requirements:

Keep container(s) tightly closed and properly labeled. Store in cool, dry, well-ventilated areas away from heat, direct sunlight, strong oxidizers and any incompatibilities. Store in approved containers and protect against physical damage. Keep containers securely sealed when not in use. Indoor storage should meet OSHA standards and appropriate fire codes. Containers that have been opened must be carefully resealed to prevent leakage. Empty containers retain residue and may be dangerous.

Use non-sparking ventilation systems, approved explosion-proof equipment and intrinsically safe electrical systems in areas where this product is used and stored.

Ground and bond containers and receiving equipment. Avoid static electricity by grounding.

Electrostatic charges may be generated during pumping. Keep away from aerosols, flammables, oxidizing agents, corrosives and from other flammable products.

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## SECTION 8) EXPOSURE CONTROLS, PERSONAL PROTECTION

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### Respiratory Protection:

If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker, a respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 and ANSI Z88.2 should be followed. Check with respiratory protective equipment suppliers.

### Skin Protection:

Use of gloves approved to relevant standards made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Use of an apron and over-boots of chemically impervious materials such as neoprene or nitrile rubber is recommended to avoid skin sensitization. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Launder soiled clothes or properly disposed of contaminated material, which cannot be decontaminated.

### Eye Protection:

Wear eye protection with side shields or goggles. Wear indirect-vent, impact and splash resistant goggles when working with liquids. If additional protection is needed for entire face, use in combination with a face shield.

### Appropriate Engineering Controls:

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

Chemical Name	OSHA TWA (ppm)	OSHA TWA (mg/m3)	OSHA STEL (ppm)	OSHA STEL (mg/m3)	OSHA Tables (Z1, Z2, Z3)	OSHA Carcinogen	OSHA Skin designation	NIOSH TWA (ppm)	NIOSH TWA (mg/m3)	NIOSH STEL (ppm)	NIOSH STEL (mg/m3)	NIOSH Carcinogen
METHYL ISOBUTYL KETONE	100	410			1			50	205	75	300	

Chemical Name	ACGIH TWA (ppm)	ACGIH TWA (mg/m3)	ACGIH STEL (ppm)	ACGIH STEL (mg/m3)	ACGIH Carcinogen	ACGIH Notations	ACGIH TLV Basis
METHYL ISOBUTYL KETONE	20		75	307	A3	A3; BEI	URT irr; dizziness; headache

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## SECTION 9) PHYSICAL AND CHEMICAL PROPERTIES

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### Physical and Chemical Properties

Specific Gravity	0.80
Density	6.68 lb/gal
% VOC	100.00%
VOC Actual	6.68 lb/gal
Density VOC	6.68 lb/gal
% Solids By Weight	0.00%

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Appearance	Clear liquid
Odor Threshold	N/A
Odor Description	Ketone
pH	N/A
Water Solubility	N/A

Flammability	Flashpoint below 73 °F
Flash Point Symbol	C
Flash Point	16 °C
Viscosity	N/A
Lower Explosion Level	N/A
Upper Explosion Level	N/A
Vapor Pressure	N/A
Vapor Density	N/A
Freezing Point	N/A
Melting Point	N/A
Low Boiling Point	N/A
High Boiling Point	N/A
Auto Ignition Temp	N/A
Decomposition Pt	N/A
Evaporation Rate	N/A
Coefficient Water/Oil	N/A
VOC Composite Partial Pressure	14.7557 mmHg (Calculated @ 20 C/68 F)

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## SECTION 10) STABILITY AND REACTIVITY

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### Stability:

Stable under normal conditions of use.

### Conditions to Avoid:

Avoid heat, sparks, open flames and other ignition sources.

### Hazardous Reactions/Polymerization:

No data available.

### Incompatible Materials:

Strong oxidizing agents.

### Hazardous Decomposition Products:

Thermal decomposition may yield carbon dioxide and/or carbon monoxide.

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## SECTION 11) TOXICOLOGICAL INFORMATION

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### Acute toxicity:

Ingestion: May be harmful or fatal if swallowed.

### Skin Corrosion/Irritation:

Causes mild skin irritation

### Serious eye damage/irritation:

Causes serious eye irritation

### Germ cell mutagenicity:

No data available

### Respiratory/Skin Sensitization:

Slightly irritating to respiratory system.

### Carcinogenicity:

Suspected of causing cancer (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)

### Reproductive toxicity:

No data available

### Specific Target Organ Toxicity - Repeated Exposure:

No data available

### Aspiration hazard:

No data available

**Specific Target Organ Toxicity - Single Exposure:**

May cause respiratory irritation

0000108-10-1 METHYL ISOBUTYL KETONE

**Potential Health Effects - Miscellaneous**

0000108-10-1 METHYL ISOBUTYL KETONE

The following medical conditions may be aggravated by exposure: asthma, respiratory disease, eye disorders, pulmonary conditions, skin disorders. Repeated or prolonged skin contact may cause any of the following: dryness, cracking of the skin, defatting. Inhalation may cause any of the following: dizziness, stupor (central nervous system depression), drowsiness, respiratory tract irritation.

**SECTION 12) ECOLOGICAL INFORMATION****Bio-accumulative Potential:**

No data available.

**Persistence and Degradability:**

No data available.

**Mobility in Soil:**

No data available.

**Toxicity:**

No data available

**Other adverse effects:**

No data available.

**SECTION 13) DISPOSAL CONSIDERATIONS****Waste Disposal Method:**

Under RCRA it is the responsibility of the user of the product to determine at the time of disposal whether the product meets RCRA criteria for hazardous waste. Waste management should be in full compliance with federal, state and local laws.

Empty Containers retain product residue which may exhibit hazards of material, therefore do not pressurize, cut, glaze, weld or use for any other purposes. Return drums to reclamation centers for proper cleaning and reuse.

**SECTION 14) TRANSPORT INFORMATION****U.S. DOT Information:**

UN1245, Methyl Isobutyl Ketone, 3, PG II

**Emergency Response Guide (ERG):**

Emergency Response Guide 128

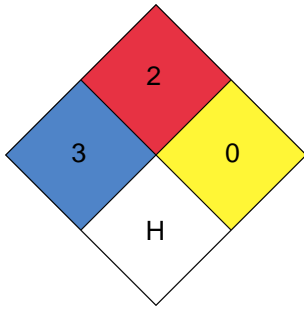
**SECTION 15) REGULATORY INFORMATION**


CAS	Chemical Name	% By Weight	Regulation List
0000108-10-1	METHYL ISOBUTYL KETONE	80% - 100%	CERCLA,SARA312,SARA313,VOC,TSCA,RCRA,CA_TAC_TOX,CA_Carcinogen,NEI - National Emissions Inventory,CA_Prop65 - California Proposition 65,CA_Prop65_Type_Toxicity_Cancer - CA_Proposition65_Type_Toxicity_Cancer,CA_Prop65_Type_Toxicity_Develop - CA_Proposition65_Type_Toxicity_Developmental,OSHA

**SECTION 16) OTHER INFORMATION****General:**

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## HMIS



Chronic : 

### Version 1.1:

Change in Section 8-Respirator

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