0 is low hazard, 3 is high hazard

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Methyl Ethyl Ketone

Flinn Scientific, Inc. P.O. Box 219 Batavia, IL 60510 (800) 452-1261

CHEMTREC Emergency Phone Number: (800) 424-9300

SECTION 2 — COMPOSITION, INFORMATION ON INGREDIENTS

Methyl ethyl ketone Synonym: MEK; 2-Butanone CAS#: 78-93-3

SECTION 3 — HAZARDS IDENTIFICATION

Colorless liquid with an odor like acetone. Narcotic by inhalation. Severe eye irritant. Slightly toxic by ingestion, inhalation, and skin absorption. Avoid inhalation, ingestion, and skin absorption. Flammable liquid; dangerous fire risk. Exposure-1 Storage-3

SECTION 4 — FIRST AID MEASURES

Call a physician and seek medical attention for further treatment, observation, and support after first aid. Inhalation: Remove to fresh air at once. If breathing has stopped, give artificial respiration immediately. Eye or External: Immediately flush with fresh water for at least 15 minutes. Internal: Rinse out mouth. Give large quantities of water for dilution. Induce vomiting. Call a physician or poison control at once.

SECTION 5 — FIRE FIGHTING MEASURES	
Class IA flammable liquid.	NFPA CODE
Flash point: -3 °C Upper: 10.1% Lower: 1.8% Autoignition Temperature: 516 °C	H-1
When heated to decomposition, emits acrid smoke and irritating fumes.	F-3
Fire Fighting Instructions: Use a triclass, dry chemical fire extinguisher. Firefighters should wear PPE and	R-0
SCBA with full facepiece operated in positive pressure mode.	

SECTION 6 — ACCIDENTAL RELEASE MEASURES

FIDE FIGUTING MEASURES

Restrict unprotected personnel from the area. Remove all ignition sources and ventilate area. Contain the spill with sand or other inert absorbent material and deposit in a sealed bag or container. See Sections 8 and 13 for further information.

SECTION 7 — HANDLING AND STORAGE

Flinn Suggested Chemical Storage Pattern: Organic #4. Store with ethers, ketones, halogenated hydrocarbons, and ethylene oxide. Store in a dedicated flammables cabinet. If a flammables cabinet is not available, store in a Flinn Saf-Stor Can. Use and dispense in a hood.

SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Avoid contact with eyes, skin, and clothing. Wear chemical splash goggles, chemical-resistant gloves, and a chemical-resistant apron. Use ventilation to keep airborne concentrations below exposure limits. Always wear a NIOSH-approved respirator with proper cartridges or a positive pressure, air-supplied respirator when handling this material in emergency situations (spill or fire). Exposure guidelines: PEL 200 ppm, STEL 300 ppm (OSHA, NIOSH)

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Colorless liquid with an odor like acetone. Solubility: Soluble in alcohol and ether. Miscible with oils. Formula: $CH_3COC_2H_5$ Formula weight: 72.106

SECTION 10 — STABILITY AND REACTIVITY

Avoid contact with oxidizers, reducers, and bases. Shelf life: Good, if stored properly.

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Severe eye irritant, nausea, dizziness, headache, GI disturbances Chronic effects: Dermatitis Target organs: Central nervous system

ORL-RAT LD₅₀: 2737 mg/kg IHL-RAT LC₅₀: 23500 mg/m³/8H SKN-RBT LD₅₀: 6480 mg/kg

N.A. = Not available, not all health aspects of this substance have been fully investigated.

SECTION 12 — ECOLOGICAL INFORMATION

Data not yet available.

SECTION 13 — DISPOSAL CONSIDERATIONS

Please review all federal, state and local regulations that may apply, before proceeding. Flinn Suggested Disposal Method #18b is one option.

SECTION 14 — TRANSPORT INFORMATION

Shipping name: Methyl ethyl ketone Hazard class: 3, Flammable liquid UN number: UN1193 N/A = Not applicable

SECTION 15 — REGULATORY INFORMATION

TSCA-listed, EINECS-listed (201-159-0), RCRA code U159.

SECTION 16 — OTHER INFORMATION

This Material Safety Data Sheet (MSDS) is for guidance and is based upon information and tests believed to be reliable. Flinn Scientific, Inc. makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages relating thereto. The data is offered solely for your consideration, investigation, and verification. The data should not be confused with local, state, federal or insurance mandates, regulations, or requirements and CONSTITUTE NO WARRANTY. Any use of this data and information must be determined by the science instructor to be in accordance with applicable local, state or federal laws and regulations. The conditions or methods of handling, storage, use and disposal of the product(s) described are beyond the control of Flinn Scientific, Inc. and may be beyond our knowledge. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THIS PRODUCT(S).

Consult your copy of the *Flinn Science Catalog/Reference Manual* for additional information about laboratory chemicals.

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Boiling point: 80 °C

Melting point: -87 °C