



Carolina International Sales Co., Inc

MATERIAL SAFETY DATA SHEET

2522 Plantation Center Drive
Matthews, NC 28105
(704) 845 9440

www.ciscochem.com

1. PRODUCT NAME: Methyl Isobutyl Carbinol

2. CHEMICAL NAME: 4-Methyl-2-Pentanol

3. SYNONYMS:

4. CAS NUMBER: 108-11-2

5. COMPOSITION: 2-Pentanol, 4-methyl-
Cas: 108-11-2
Percent: 100%

6. PROPERTIES: APPEARANCE: Clear, colorless liquid.
ODOR: Mild odor.
SOLUBILITY: 1.5 gm in 100 gm water.
SPECIFIC GRAVITY: 0.802
PH: No information found.
% VOLATILES BY VOLUME @ 21C (70F): No information found.
BOILING POINT: 132 (270F)
MELTING POINT: -90C (-130F)
VAPOR DENSITY (Air=1): 3.53
VAPOR PRESSURE (mm Hg): 2.8 @ 20C (68F)
EVAPORATION RATE (BuAc=1): 0.27
FLASH POINT: 41C (106F)
STABILITY: Stable under ordinary conditions of use and storage.
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon dioxide and carbon monoxide may form when heated to decomposition.
HAZARDOUS POLYMERIZATION: Will not occur.
INCOMPATIBILITIES: Strong oxidizers.
CONDITIONS TO AVOID: No information found.

7. HAZARDS: EMERGENCY OVERVIEW: WARNING! Harmful if swallowed, inhaled or absorbed through skin. Causes irritation to skin, eyes and respiratory tract. Affects central nervous system. Combustible.
POTENTIAL HEALTH EFFECTS
INHALATION: Inhalation of vapors irritates the respiratory tract. High concentrations causes central nervous system effects, such as dullness, dizziness, anesthesia.
INGESTION: Harmful if swallowed. Symptoms of abdominal pain, vomiting, diarrhea, headache and dullness may occur.
SKIN CONTACT: Causes skin irritation. Can be absorbed through the skin.
EYE CONTACT: Vapors and liquid cause eye irritation.
CHRONIC EXPOSURE: No information found.
AGGRAVATION OF THE PRE-EXISTING CONDITIONS: No information found.
NFPA RATINGS:
Health: 2; Flammability: 2; Reactivity: 0.

8. FIRE FIGHTING INFORMATION: FLASH POINT: 41C (106F)
FLAMMABLE LIMITS IN AIR % BY VOLUME:
lcl: 1.0; ucl: 5.5
Combustible Liquid.
EXPLOSION: Above flash point, vapor-air mixtures are explosive within flammable limits noted above.
FIRE EXTINGUISHING MEDIA: Water spray, dry chemical, alcohol foam, or carbon dioxide.

IN CASE OF
TRANSPORT EMERGENCY
CONTACT CHEMTREC
USA: 1-800-424-9300
INTERNATIONAL: 1-703-527-3887



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SPECIAL INFORMATION: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face-piece operated in the pressure demand or other positive pressure mode. Vapors can flow along surfaces to distant ignition source and flash back.

9. PERSONAL PROTECTION MEASURES: **VENTILATION SYSTEM:** A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, "Industrial Ventilation, A Manual of Recommended Practices", most recent edition, for details.

PERSONAL RESPIRATORS (NIOSH APPROVED): If the TLV is exceeded a full face-piece chemical cartridge respirator may be worn up to the maximum use concentration specified by the respirator supplier. Alternatively, a supplied air full face-piece respirator or air-lined hood may be worn.

SKIN PROTECTION: Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

EYE PROTECTION: Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.

10. FIRST AID PROCEDURES: **INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

INGESTION: Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person.

SKIN CONTACT: Remove any contaminated clothing. Wash skin with soap or mild detergent and water for at least 15 minutes. Get medical attention if irritation develops or persists.

EYE CONTACT: Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

11. EXPOSURE AIRBORNE EXPOSURE LIMITS:

LIMITS: - OSHA Permissible Exposure Limit (PEL): 25 ppm (! TWA), 40 ppm (STEL) skin

- ACGIH Threshold Limits Value (TLV): 25 ppm (TWA), 40 ppm (STEL) skin

12. TOXICOLOGICAL INFORMATION: Oral rat LD50: 2590 mg/kg Skin rabbit LD50: 3560 mg/kg

13. ECOLOGICAL INFORMATION: **ENVIRONMENTAL FATE:** No information found.

ENVIRONMENTAL TOXICITY: No information found.

14. DISPOSAL CONSIDERATIONS: Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved waste facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

15. CARCINOGENIC PROPERTIES & NOTIFICATIONS: NE

16. TRANSPORT INFORMATION: DOMESTIC (Land D.O.T.)
PROPER SHIPPING NAME: Methyl Isobutyl Carbinol
HAZARD CLASS: 3
UN/NA: UN2053



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PACKING GROUP: III
INTERNATIONAL (Water, I.M.O.)
PROPER SHIPPING NAME: Methyl Isobutyl Carbinol
HAZARD CLASS: 3.3
UN/NA: UN2053
PACKING GROUP: III

17. HANDLING & STORAGE: Protect against physical damage. Outside or detached storage is preferred. Inside storage should be in a standard flammable liquids storage room or cabinet. Separate from oxidizing materials. Storage and use areas should be No Smoking areas.
18. ACCIDENTAL RELEASE MEASURES: Ventilate area of leak or spill. Remove all sources of ignition. Wear appropriate personal protective equipment as specified in Personal Protection Section. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Contain and recover liquid when possible. Use non-sparking tools and equipment. Collect liquid in an appropriate container or absorb with an inert material (e.g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as saw dust. Do not flush to sewer!!
19. REGULATORY INFORMATION: 2-Pentanol, 4-methyl- (108-11-2)
Canada:
Korea: Yes
DSL: Yes
NDSL: No
PHIL.: Yes
2-Pentanol, 4-methyl- (108-11-2)
SARA 302: RQ: No, TPQ: No
SARA 313: List: No, Chemical Catg.: No
2-Pentanol, 4-methyl- (108-11-2)
CERCLA: No, -RCRA- 261.33: No, -TSCA- 8 (d): No
WHMIS: This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.
SARA SECTION 302 EHS RQ: Reportable Quantity of extremely Hazardous Substance, listed at 40 CFR 355.
SARA SECTION 302 EHS TPQ: Threshold Planning Quantity of Extremely Hazardous substance. An asterisk (*) following a Threshold Planning Quantity signifies that if the material is a solid and has a particle size equal to or larger than 100 micrometers, the Threshold Planning Quantity = 10,000 LBS.
SARA SECTION 313 CHEMICALS: Toxic Substances subject to annual release reporting requirements listed at 40 CFR 372.65.
CERCLA SEC. 103: Comprehensive Environmental Response, Compensation and Liability Act (Superfund) Releases to air, land or water of these hazardous substances which exceed the Reportable Quantity (RQ) must be reported to the National Response Center, (800-424-8802); Listed at 40 CFR 302.4.
RCRA: Resource Conservation and Recovery Act. Commercial chemical product wastes designated as acute hazards or toxic under 40 CFR 261.33.