



Material Safety Data Sheet

PROTECTIVE CLOTHING HAZARD WARNINGS RISK PHRASES Flammable material; avoid heat and sources of ignition. Harmful compound, minimize exposure. Irritating to skin, eyes, and the respiratory system.

Section I. C	hemical Product and Company Id	dentification	
Chemical Name	3-Methyl-2-butanol		
Catalog Number	M0171	Supplier	TCI America 9211 N. Harborgate St.
Synonym	2-Methyl-3-butanol; Isopropylmethylcarbinol; sec-Isoamyl Alcohol		Portland OR 1-800-423-8616
Chemical Formula	C₅H ₁₂ O		
CAS Number	598-75-4	In case of Emergency Call	Chemtrec® (800) 424-9300 (U.S.) (703) 527-3887 (International)

Section II. Composition and Information on Ingredients					
Chemic	cal Name	CAS Number	Percent (%)	TLV/PEL	Toxicology Data
3-Methy	rl-2-butanol	598-75-4	Min. 95.0 (GC)	Not available.	Not available.

Section III.	Hazards Identification
Acute Health Effects	Irritating to eyes and skin on contact. Inhalation causes irritation of the lungs and respiratory system. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering. Follow safe industrial hygiene practices and always wear proper protective equipment when handling this compound.
Chronic Health Effect	CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITYNot available. There is no known effect from chronic exposure to this product. Repeated or prolonged exposure to this compound is not known to aggravate existing medical conditions.

Section IV.	First Aid Measures
Eye Contact	Check for and remove any contact lenses. IMMEDIATELY flush eyes with runing water for at least 15 minutes. keeping eyelids open. COLD water may be used. DO NOT use an eye oitment. Flush eyes with running water for a minimum of 15 minutes, occasionally lifting the upper eyelids. Seek medical attention. Treat symptomatically and supportively.
Skin Contact	After contact with skin, wash immediately with plenty of water. Gently and thorough wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. COLD water may be used. Cover the irritated skin with an emollient. Seek medical attention. Treat symptomatically and supportively. Wash any contaminated clothing before reusing.
Inhalation	Evacuate 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 artificial respiration. Seek medical attention. Treat symptomatically and supportively.
Ingestion	INDUCE VOMITING by sticking finger in throat. Lower the head so that the vomit will not reenter the mouth and throat. Loosen tight clothing such as a collar, tie, belt, or waistband. If the victim is not breathing, administer artificial respiration. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Seek immediate medical attention and, if possible, show the chemical label. Treat symptomatically and supportively.

Section V. F	ire and Explosion Data	3	
Flammability	Flammable.	Auto-Ignition	Not available.
Flash Points	34°C (93.2°F).	Flammable Limits	Not available.
Combustion Products	These products are toxic carbon of	oxides (CO, CO ₂).	
Fire Hazards	No specific information is available regarding the flammability of this compound in the presence of various materials.		
Explosion Hazards	Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available. No additional information is available regarding the risks of explosion.		

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Emergency phone number

(800) 424-9300

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Fire Fighting Media Flammable liquid.

and Instructions SMALL FIRE: Use DRY chemicals, CO₂, alcohol foam or water spray

LARGE FIRE: Use alcohol foam, water spray or fog.

Section VI. Accidental Release Measures

Spill Cleanup Instructions Flammable liquid. Irritating material.

Keep away from heat and sources of ignition. Mechanical exhaust required. 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 needed. Eliminate all sources of ignition. Consult federal, state, and/or local authorities for

assistance on disposal.

Section VII. Handling and Storage

Handling and Storage

FLAMMABLE. IRRITANT. Do not breathe gas, fumes, vapor or spray.

Information Always store away from incompatible compounds such as oxidizing agents, reducing agents.

Section VIII. Exposure Controls/Personal Protection

Engineering Controls

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash station and safety shower is proximal to the work-station location.

Personal Protection

Melting Point

Splash goggles. Lab coat. Vapor respirator. Boots. Gloves. Suggested protective clothing might not be sufficient;

consult a specialist BEFORE handling this product.



Exposure Limits Not available.

Section IX. Physical and Chemical Properties

Not available.

Physical state @ 20°C Colorless liquid. Solubility Slightly soluble in water (2.8g/100g @ 30°C).

Vapor Density

Not available.

Specific Gravity 0.817 Miscible with alcohol, and ether.

Molecular Weight 88.15 Partition Coefficient Not available.

Boiling Point 112 to 114°C (233.6 to 237.2°F) Vapor Pressure Not available.

Refractive Index 1.409 Volatility Not available.

Critical Temperature Not available. Odor Not available.

Viscosity Not available. Taste Not available.

Section X. Stability and Reactivity Data

Stability This material is stable if stored under proper conditions. (See Section VII for instructions)

Conditions of Instability Avoid excessive heat and light.

Incompatibilities Reactive with strong oxidizing agents, reducing agents.

Section XI. Toxicological Information

RTECS Number Not available.

Routes of Exposure Eye contact. Ingestion. Inhalation. Skin contact.

Toxicity Data Not available.

Chronic Toxic Effects CARCINOGENIC EFFECTS: Not available.

MUTAGENIC EFFECTS: Not available.
TERATOGENIC EFFECTS: Not available.
DEVELOPMENTAL TOXICITYNot available.

There is no known effect from chronic exposure to this product. Repeated or prolonged exposure to this compound is not known to aggravate existing medical conditions.

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Section XII. Ecological Information

Ecotoxicity Not available.

Environmental Fate Not available.

Section XIII. Disposal Considerations

Waste Disposal Recycle to process, if possible. Consult your local or regional authorities. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all

federal, state, and local regulations when disposing of the substance.

Section XIV. Transport Information

DOT Classification DOT Class 3: Flammable liquid

PIN Number UN1105

Proper Shipping Name Pentanols

Packing Group (PG)

DOT Pictograms



Section XV. Other Regulatory Information and Pictograms

TSCA Chemical Inventory This compound is **ON** the EPA Toxic Substances Control Act (TSCA) inventory list.

(EPA)

WHMIS Classification WHMIS CLASS B-2: Flammable liquid with a flash point lower than 35°C (100°F).

(Canada)

EINECS Number (EEC) 209-950-2

EEC Risk Statements R10- Flammable.

R18- In use, may form flammable/explosive vapor-air mixture.

R36/37/38- Irritating to eyes, respiratory system and skin.

R20/21/22- Harmful by inhalation, in contact with skin and if swallowed.

Japanese Regulatory Data Not available.

Section XVI. Other Information

Version 1.0

Validated on 12/4/2007.

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Notice to Reader

TCI laboratory chemicals are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. 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 chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our MSDS sheets are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated MSDS sheets for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, facial mask, fume hood). For proper handling and disposal, always comply with federal, state, and local regulations.

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