

Isopentyl Alcohol

MSDS # 383.00

Section 1: Product and Company Identification

Isopentyl Alcohol

Synonyms/General Names: 3-Methyl-1-butanol; Isopentyl Alcohol; Isoamyl Alcohol

Product Use: For educational use only

Manufacturer: Columbus Chemical Industries, Inc., Columbus, WI 53925.

24 Hour Emergency Information Telephone Numbers

CHEMTREC (USA): 800-424-9300

CANUTEC (Canada): 613-424-6666

ScholarAR Chemistry; 5100 W. Henrietta Rd, Rochester, NY 14586; (866) 260-0501; www.Scholarchemistry.com

Section 2: Hazards Identification

Colorless liquid; characteristic sweet odor.

HMIS (0 to 4)

Health	1
Fire Hazard	2
Reactivity	0

WARNING! Flammable liquid and slightly toxic by ingestion and inhalation.

Flammable liquid, keep away from all ignition sources.

Target organs: Central nervous system, respiratory system, eyes, skin.

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Section 3: Composition / Information on Ingredients

Isoamyl Alcohol (123-51-3), > 98%.

Section 4: First Aid Measures

Always seek professional medical attention after first aid measures are provided.

Eyes: Immediately flush eyes with excess water for 15 minutes, lifting lower and upper eyelids occasionally.

Skin: Immediately flush skin with excess water for 15 minutes while removing contaminated clothing.

Ingestion: Call Poison Control immediately. **Aspiration hazard.** Rinse mouth with cold water. Give victim 1-2 tbsp of activated charcoal mixed with 8 oz water.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration.

Section 5: Fire Fighting Measures

Class II Flammable Liquid. When heated to decomposition, emits acrid fumes

Protective equipment and precautions for firefighters: Use foam or dry chemical to extinguish fire.

Firefighters should wear full fire fighting turn-out gear and respiratory protection (SCBA). Cool container with water spray. Material is not sensitive to mechanical impact. Material is sensitive to static discharge.



Section 6: Accidental Release Measures

Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Remove all ignition sources and ventilate area. Contain spill with sand or absorbent material and place material in a sealed bag or container for disposal. Wash spill area after pickup is complete. See Section 13 for disposal information.

Section 7: Handling and Storage

Red

Handling: Use with adequate ventilation and do not breathe dust or vapor. Avoid contact with skin, eyes, or clothing. Wash hands thoroughly after handling.

Storage: Store in Flammable Area [Red Storage] with other flammable materials and away from any strong oxidizers. Store in a dedicated flammables cabinet. Store in a cool, dry, well-ventilated, locked store room away from incompatible materials.

Section 8: Exposure Controls / Personal Protection

Use ventilation to keep airborne concentrations below exposure limits. Have approved eyewash facility, safety shower, and fire extinguishers readily available. Wear chemical splash goggles and chemical resistant clothing such as gloves and aprons. Wash hands thoroughly after handling material and before eating or drinking. Use NIOSH-approved respirator with an acid/organic cartridge. Exposure guidelines: Isoamyl Alcohol: OSHA PEL: 360 mg/m³ and ACGIH TLV: 361 mg/m³, STEL: 452 mg/m³.

Section 9: Physical and Chemical Properties

Molecular formula	(CH ₃) ₂ CHCH ₂ CH ₂ OH.	Appearance	Colorless liquid.
Molecular weight	88.15.	Odor	Characteristic sweet odor.
Specific Gravity	0.81 g/mL @ 20°C.	Odor Threshold	N/A.
Vapor Density (air=1)	3.0.	Solubility	Soluble in water.
Melting Point	-117°C.	Evaporation rate	N/A (<i>Butyl acetate = 1</i>).
Boiling Point/Range	133°C.	Partition Coefficient	N/A (<i>log P_{ow}</i>).
Vapor Pressure (20°C)	2.4 mm Hg @ 25°C.	pH	N/A.
Flash Point:	43°C (109°F) CC.	LEL	1.2%.
Autoignition Temp.:	350°C (662°F).	UEL	9.0%.

N/A = Not available or applicable

Section 10: Stability and Reactivity

Avoid heat and ignition sources.

Stability: Stable under normal conditions of use.

Incompatibility: May react or be incompatible with reducing agents, strong oxidizers.

Shelf life: Poor shelf life, store in a cool, dry environment.

Section 11: Toxicology Information

Acute Symptoms/Signs of exposure: *Eyes:* Stinging pain, watering of eyes, inflammation of eyelids and conjunctivitis. *Skin:* Insensitivity to pain, feel of coolness or cold, skin looks white and feels hard and cold. *Ingestion:* Breath has sweet, organic odor, mental confusion, drowsiness, nausea, vomiting and headache. *Inhalation:* Rapid irregular breathing, headache, fatigue, mental confusion, nausea and vomiting, giddiness and poor judgment, convulsions and death.

Chronic Effects: Repeated/prolonged skin contact may cause dryness or rashes.

Sensitization: none expected

Isoamyl Alcohol: LD50 [oral, rat]; 1300 mg/kg; LC50 [rat]; N/A; LD50 Dermal [rabbit]; 20 mg/24H MOD

Material has not been found to be a carcinogen nor produce genetic, reproductive, or developmental effects.

Section 12: Ecological Information

Ecotoxicity (aquatic and terrestrial): Toxic to aquatic and terrestrial plants and animals. Do not release into environment.

Section 13: Disposal Considerations

Check with all applicable local, regional, and national laws and regulations. Local regulations may be more stringent than regional or national regulations. Small amounts of this material may be suitable for sanitary sewer or trash disposal.

Section 14: Transport Information

DOT Shipping Name:	Pentanol.	Canada TDG:	Pentanol.
DOT Hazard Class:	3, pg III.	Hazard Class:	3, pg III.
Identification Number:	UN1105.	UN Number:	UN1105.

Section 15: Regulatory Information

EINECS: Listed (204-633-5).

WHMIS Canada: B3, D2B; Combustible liquid, Toxic material.

TSCA: All components are listed or are exempt.

California Proposition 65: Not listed.

The product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Section 16: Other Information

Current Issue Date: December 21, 2011

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