



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: Isobutyl Alcohol
2. CHEMICAL NAME:
3. SYNONYMS:
4. CAS NUMBER: 78-83-1
5. COMPOSITION: Isobutyl Alcohol (2-methyl-1-propanol) (78-83-1)
100%

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

6. PROPERTIES: ODOR & APPEARANCE: clear, colorless, liquid with not very pleasant fruity odor
ODOR THRESHOLD: as high as 50ppm – inadequate warning properties
VAPOUR PRESSURE: 8.8mmHg/1.17kPa (20 c)
EVAPORATION RATE (butyl Acetate=1): 0.82
VAPOR DENSITY (air=1): 2.6
BOILING RANGE: 108 c
FREEZING POINT: -108 c
SPECIFIC GRAVITY: 0.803 (20/20 c)
WATER SOLUBILITY: 98 grams per litre (20 c)
IN OTHER SOLVENTS: soluble in most organic solvents
VISCOSITY: 4.0 centipoise (20 c)
7. HAZARDS: HMIS (USA): Health - 2, Fire - 2, Reactivity - 1
MATERIAL USE: solvent in paints, lacquers, cleaners; mfg. Of isobutyl esters
8. FIRE FIGHTING INFORMATION: FLASH POINT: 28 c (closed cup)
AUTOIGNITION TEMPERATURE: 415 c
FLAMMABLE LIMITS: 1.7% - 10.6%
COMBUSTION PRODUCTS: carbon monoxide, nitrogen oxides, smoke, part oxidized hydrocarbon fragments
FIREFIGHTING PRECAUTIONS: foam, dry chemical, water fog, water spray only to cool & dilute, product floats on water – water jet spreads flames; firefighters must wear SCBA
STATIC DISCHARGE: will not accumulate a static charge
MECHANICAL IMPACT: not sensitive
CHEMICAL STABILITY: stable; will not polymerize
REACTIVE WITH: strong oxidizing agents; especially chromium trioxide; may explode in combination with isocyanates, ethylene oxide, sulphuric acid, and with certain oxidizing agents
DECOMPOSITION PRODUCTS: none apart from Hazardous Combustion Products
9. PERSONAL PROTECTION MEASURES: HANDS: butyl rubber, neoprene rubber, or “Viton” gloves – also consult your supplier
EYES: safety glasses with side shields or chemical goggles must be worn
VENTILATION: mechanical ventilation required to maintain local concentration below 50ppm; provide a respirator with an organic vapor cartridge for escape purposes in case ventilation fails
CLOTHING: impermeable (hands, above) apron, boots, long sleeves, if splashing is anticipated
10. FIRST AID PROCEDURES: SKIN: Wash with soap and plenty of water. Remove contaminated clothing and do not reuse until thoroughly cleaned or laundered.
EYES: Wash eyes with plenty of water, holding eyelids open. Seek medical assistance promptly if there is irritation.
INHALATION: Remove from contaminated area promptly. CAUTION: Rescuer must not endanger



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himself! If breathing stops, administer artificial respiration and seek medical aid promptly.
INGESTION: Give plenty of water to dilute product. Do not induce vomiting (NOTE below). Keep victim quiet. If vomiting occurs, lower victim's head below hips to prevent inhalation of vomited material. Seek medical help promptly.
NOTE: Inadvertent inhalation of vomited material may seriously damage the lungs. The risk and danger of this is greater than the risk of poisoning through absorption of this relatively low-toxicity product. The stomach should only be emptied under medical supervision, after the installation of an airway to protect the lungs.

11. EXPOSURE TWAEV ppm: 50
LIMITS: LD50 ORAL: 2460
SKIN (mg/kg): 3400
LC50ppm INHALATION: 8000

12. TOXICOLOGICAL EFFECTS ACUTE EXPOSURE
INFORMATION: SKIN CONTACT: dry, mild irritant
SKIN ABSORPTION: yes, slowly; toxic effects unlikely, but possible by this route
EYE CONTACT: severely irritating, may damage eyes
INHALATION: irritating above 100ppm, headache, drowsiness, intoxication
INGESTION: diarrhoea & vomiting; also headache, drowsiness, intoxication
EFFECTS OF CHRONIC EXPOSURE
GENERAL: prolonged exposure may cause skin cracking and dermatitis, repeated absorption may damage liver and kidneys
SENSITISING: not a sensitizer
REPRODUCTIVE EFFECT: no known effect on humans or on rodents at doses below those causing maternal effects
SYNERGISTIC WITH: not known
ESTIMATED LD50: 2460mg/kg (oral, rat); 3400mg/kg (skin, rabbit)
LC50: above 8000ppm (inhalation, rat)

13. ECOLOGICAL This product cannot accumulate in living tissue, this product is readily and rapidly biodegradable in the
INFORMATION: presence of oxygen.

14. DISPOSAL DO NOT FLUSH TO SEWER; may be incinerated in approved facility.
CONSIDERATIONS:

15. CARCINOGENIC Carcinogen effects described only in one poorly designed study conducted on rats.
PROPERTIES &
NOTIFICATIONS:

16. TRANSPORT USA 49 CFR
INFORMATION: Product identification number: UN – 1212
Shipping name: isobutanol or isobutyl alcohol
Classification: Class 3; Packing group III
Label: Combustible
Class: B2, D 2B

17. HANDLING & Store and use a cool dry environment, away from sources of ignition, heat and oxidizing agents and other
STORAGE: substances listed. Use with adequate ventilation. Avoid sparks in the workplace – use non-sparking tools and explosion-proof electrical equipment nearby. Do not cut, drill, weld or grind on or near this container. Avoid prolonged contact with skin and wash work clothes frequently. An eye bath and safety shower



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should be available near the workplace.

18. ACCIDENTAL LEAK PRECAUTION: dyke to control spillage and prevent environmental contamination. Fire potential: RELEASE blanket spill with foam as a precaution against accidental ignition. Avoid sparks – do not operate (turn on MEASURES: OR off) electrical appliances near spill, unless explosion proof.
HANDLING SPILL: ventilate contaminated area; recover free liquid with explosion-proof pumps; absorb residue on an inert sorbent, pick up using non-sparking plastic or aluminium shovel, & store in closed containers for disposal.