

**MATERIAL SAFETY DATA SHEET****NUVO AUSTRALIA PTY LTD**

(ACN 089 731 617)

324/ 23 MILTON PARADE**MALVERN VIC 3144 AUSTRALIA****PHONE: (03) 9822 2209****FAX: (03) 9822 2109****EMERGENCY No. 0419 341 095 any time****http://www.nuvo.com.au****PRODUCT: ISOBUTANOL****PRODUCT NAMES:** ISOBUTANOL**OTHER NAMES:** 2-Methyl-1-propanol, Isobutyl alcohol, Isopropyl carbinol**UN NUMBER:** 1212**HAZCHEM CODE:** 3Y**PACKAGING GROUP:** III**USES:** Solvent**DANGEROUS GOODS:****CLASS & SUB RISK:** 3**POISONS SCHEDULE:** N/A**STATEMENT OF HAZARDOUS NATURE:**

Classified as hazardous according to criteria of Worksafe Australia

PHYSICAL DESCRIPTION/PROPERTIES:

APPEARANCE/ODOUR	:	Clear colourless liquid. Characteristic sweet odour.
FLASH POINT	:	28°C
BOILING POINT	:	106-109°C
VAPOUR PRESSURE	:	1.7kPa at 20°C
VAPOUR DENSITY	:	2.57 (air = 1)
FREEZING POINT	:	N/A
SOLUBILITY IN WATER	:	Soluble
SPECIFIC GRAVITY	:	0.80 at 20°C
AUTOIGNITION TEMP.	:	411°C
FLAMMABILITY LIMITS	:	1.7-10.9%

INGREDIENTS:

CHEMICAL ENTITY	CAS No.	PROPORTION
Isobutanol	78-83-1	>99%

1. HEALTH HAZARD INFORMATION**Health Effects:****Swallowed:**

Causes throat and mouth irritation. Can cause nausea, vomiting, headache and stupor.

Eyes:

The vapour is an eye irritant. Liquid is a severe eye irritant.

Skin:

May result in mild to moderate irritation. Repeated or prolonged skin contact may lead to dermatitis.

Inhaled:

Vapour is irritant to mucous membranes and respiratory tract. Can result in headaches, dizziness and possible nausea. Inhalation of high concentrations can produce central nervous system depression, which can lead to loss of co-ordination, impaired judgement and if prolonged exposure, unconsciousness.

2. FIRST AID**Swallowed**

Rinse mouth with water. Give water to drink. Do not induce vomiting. Seek medical attention immediately.

MATERIAL SAFETY DATA SHEET**PRODUCT: ISOBUTANOL****Eyes**

Immediately irrigate with copious quantities of water for at least 15 minutes. Seek medical attention immediately.

Skin

Wash with water and soap. Remove contaminated clothing and wash before re-use.

Inhaled

Remove victim from exposure. If breathing is laboured and patient cyanotic, ensure airways are clear and give oxygen. Seek medical attention immediately.

Toxicity Data:

Oral LD50 (rat):	2460mg/kg	Skin (rabbit):	Moderate irritant
Dermal LD50 (rabbit):	3400mg/kg	Eyes (rabbit):	Moderate/severe irritant.

3. PRECAUTIONS FOR USE**Exposure standards**

TWA: 50 PPM, 152 MG/M₃

Engineering controls

Ensure ventilation is adequate. Vapour is heavier than air.

Personal protection

Protective goggles

Impervious clothing and boots

Chemical resistant gloves

Respiratory equipment

Personal protection comments

Always wash hands before eating, drinking or using the toilet.

Flammability

Flammable liquid. May form flammable vapour mixtures with air.

4. SAFE HANDLING INFORMATION**Storage conditions**

Correct Shipping Name: ISOBUTANOL. Store in a cool, well-ventilated area. Store away from oxidising agents and sources of heat and ignition. Keep containers closed at all times. **Not to be loaded with classes 1, 2.1, 4.2, 4.3, 5.1, 5.2 & 7.**

Spills & disposal

Shut off all possible sources of ignition. Use absorbent material to collect spills and seal in properly labelled drums for disposal. Refer to local regulations for disposal requirements.

Fire/Explosion Hazard

Flammable liquid. On burning will emit toxic fumes. For small fires use dry agent (CO₂, dry chemical powder). For large fires use foam or water fog. Keep containers cool with water spray. Product floats on water.

CONTACT POINT:	Emergency response No. 0419 341 095 (all hours)
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DISCLAIMER: The information given in this data sheet is based on data supplied by the manufacturer and is, to the best of our knowledge, true and accurate, but any recommendations or suggestions that may be made are without guarantee, since the conditions of use are beyond our control. The information and recommendations offered are for the user's consideration and it is the user's responsibility to satisfy themselves that they are suitable and complete for this particular purpose. We recommend that the safety and handling information presented in this data sheet be passed on, in an appropriate format, to your customers and handlers.