



Product Name: 1-Butanol CAS No.: 71-36-3 Version: 1

1. Identification

Product Code : 91809,91522,93039

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2. Hazards Identification

Hazard classification

Flammable liquids : Category 3
Acute toxicity, Oral : Category 4
Skin irritation : Category 2
Serious eye damage : Category 1
Specific target organ toxicity - : Category 3

single exposure

Specific target organ toxicity -

single exposure Label elements Hazard symbol : Category 3



Signal word : Danger

Hazard statement : Flammable liquid and vapour.

Harmful if swallowed.
Causes skin irritation.
Causes serious eye damage.
May cause respiratory irritation.
May cause drowsiness or dizziness.

Precautionary statement : Keep away from heat, hot surfaces, sparks, open flames and

other ignition sources. No smoking. Wear eye protection/ face protection.

IF SWALLOWED: Call a POISON CENTER or doctor/

physician if you feel unwell. Rinse mouth.

IF INHALED: Remove person to fresh air and keep

comfortable for





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breathing. Call a POISON CENTER or doctor/physician if

you feel unwell.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.

Store in a well-ventilated place. Keep cool.

Supplemental Hazard

Statements

None.

3. Composition/information on ingredients

Ingredient CAS No

1-Butanol 71-36-3

4. First Aid Measures

Description of first aid measures

General advice Consult a physician. Show this safety data sheet to the doctor

in attendance.

If breathed in, move person into fresh air. If not breathing, give Inhalation

artificial respiration. Consult a physician.

Take off contaminated clothing and shoes immediately. Wash **Skin contact**

off with soap and plenty of water. Take victim immediately to

hospital. Consult a physician.

Rinse thoroughly with plenty of water for at least 15 minutes Eye contact

and consult a physician.

Do NOT induce vomiting. Never give anything by mouth to an **Swallowed**

unconscious person. Rinse mouth with water. Consult a

physician.

Most important symptoms and

effects, both acute and delayed

To the best of our knowledge, the chemical, physical, and

toxicological properties have not been Thoroughly

investigated.

Indication of any immediate medical attention and special treatment needed Treatment

No data available



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5. Fire fighting measures

Extinguishing media

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or

carbon dioxide.

Special hazards arising from the:

substance or mixture Advice for firefighters c Carbon oxides

Flash back possible over considerable distance.

: Wear self contained breathing apparatus for fire fighting if

necessary

Further information: May intensify fire; oxidiser.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

: Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

Environmental precautions

: Prevent further leakage or spillage if safe to do so. Do not let

product enter drains.

Methods and materials for containment and cleaning up

: Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for

disposal according to local regulations

Reference to other sections

: For disposal see section 13.

7. Handling and Storage

Precautions for safe handling

: Avoid contact with skin and eyes. Avoid inhalation of vapour

or mist.

Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Handle

and store under inert gas. hygroscopic

Flammable liquids

Specific end use(s) : No data available

8. Exposure Controls Personal Protection

Control parameters

Components with workplace control parameters





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Exposure controls

Appropriate engineering

controls

Personal protective equipment

Eye/face protection

: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

: Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate

government standards such as NIOSH (US) or EN 166(EU).

Skin Protection Hand

protection

: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of

contaminated gloves after use in accordance with applicable laws and good laboratory practices.

Wash and dry hands.

: Complete suit protecting against chemicals, The type of protective **Body Protection**

> equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

: Respiratory protection is required. **Respiratory protection**

9. Physical and Chemical Properties

: Colorless liquid **Appearance** : No data available Odor : No data available рH

Melting point/freezing point : -90 °C : 116 - 118 °C

Initial boiling point and boiling

range

Flash Point : 35 °C

: 5 hPa at 20 °C Vapor pressure Vapor density : 5 hPa at 20 °C **Relative density** : 0.81 g/mL at $25 \, ^{\circ}\text{C}$

Solubility in water : Soluble

Solubility (other) : No data available

Formula : C4H10O **Molecular Weight** : 74.12 g/mol

10. Stability and Reactivity

Reactivity : No data available

: Stable under recommended storage conditions. **Chemical stability**

Possibility of hazardous

Conditions to avoid

reactions

: Exposure to moisture

: No data available

Heat, flames and sparks.

: Oxidizing agents, Alkali metals, Bases, Strong acids, Halogens **Incompatible materials**





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Hazardous decomposition

products

: Other decomposition products - No data available

11. Toxicological Information

Information on toxicological effects

Acute toxicity : LD50 Oral - Rat - 790 mg/kg

Remarks: Liver:Fatty liver degeneration. Kidney, Ureter,

Bladder:Other changes. Blood:Other changes. LC50 Inhalation - Rat - 4 h - 8000 ppm LD50 Dermal - Rabbit - 3.400 mg/kg

Skin corrosion/irritation : Skin - Rabbit

Result: Skin irritation - 24 h

Serious eye damage/eye

irritation

: Eyes - Rabbit Result: Blindness

(OECD Test Guideline 405)

Respiratory or skin sensitization: No data available

Germ cell mutagenicity : No data available

Carcinogenicity : IARC: No component of this product present at levels greater

than or equal to 0.1% is identified as probable, possible or

confirmed human carcinogen by IARC.

Reproductive toxicity

Specific target organ toxicity -

single exposure

No data available

May cause respiratory irritation. May cause drowsiness or dizziness.

Specific target organ toxicity -

repeated exposure

: No data available

Aspiration hazard

: No data available

12. Ecological Information

Toxicity : Toxicity to fish- LC50 - Pimephales promelas (fathead

minnow) - 1.840 mg/l - 96 h

Toxicity to daphnia and other aquatic invertebrates EC50 - Daphnia magna (Water flea) - 1.983 mg/l - 48 h

Persistence and degradability

Bioaccumulative potential :

No data available

: Bioaccumulation Oncorhynchus mykiss (rainbow trout) - 24

h

- 921 mg/l

Bioconcentration factor (BCF): 0,38

Mobility in soil : No data available
Other adverse effects : No data available





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13. Disposal consideration

Disposal instructions

: Discharge, treatment, or disposal may be subject to national,

state, or local laws.

Contaminated packaging

: Offer rinsed packaging material to local recycling facilities. Since emptied containers retain product residue, follow label

warnings even after container is emptied.

14. Transport Information

	UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
DOT	1120	BUTANOLS	3	III	No
IMDG	1120	BUTANOLS	3	III	No
IATA	1120	BUTANOLS	3	III	No

15. Regulatory Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance or mixture No Data Available.

16. Other Information

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Version: 1

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