

SAFETY DATA SHEET

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name : (±)-1,3-Butanediol
Product Number : B111018
Brand : aladdin
CAS-No. : 107-88-0

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances.

1.3 Company

Company : ALADDIN SCIENTIFIC CORPORATION
Address : 14078 Meridian Parkway,
Riverside, CA. 92518
Telephone : +1 (833) 552-7181
Fax : no data available

1.4 Emergency telephone number

CHEMTREC®, Inside the USA : 1-800-424-9300
CHEMTREC®, Outside the USA :

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Skin corrosion/irritation: Category 3

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word

Warning

Hazard statement(s)

H316	Causes mild skin irritation
Precautionary statement(s)	
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353	IF ON SKIN (or hair): Take off Immediately all contaminated clothing. Rinse SKIN with water [or shower].
P370+P378	In case of fire: Use ... to extinguish.
P403+P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

SECTION 3: Composition/information on ingredients

3.1 Substances

Synonyms	: 1,3-Butylene glycol; 1,3-Dihydroxybutane; 1,3-Butanediol
Formula	: C4H10O2
Molecular weight	: 90.12
CAS No.	: 107-88-0
EC-NO.	: 203-529-7

Component	Classification	Concentration
(±)-1,3-Butanediol	no data available	≥98%

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice

no data available

If inhaled

After inhalation: fresh air

In case of skin contact

In case of skin contact: immediately remove/take off all contaminated clothing. water use Wash the skin/take a shower.

In case of eye contact

After eye contact: Rinse off with plenty of water Remove contact lenses

If swallowed

After swallowing: Drink water immediately (up to 2 cups) If you feel unwell, please seek medical attention

4.2 **Most important symptoms and effects, both acute and delayed**

no data available

4.3 **Indication of any immediate medical attention and special treatment needed**

no data available

SECTION 5: Firefighting measures

5.1 **Extinguishing media**

Suitable extinguishing media

Water, Foam, Carbon dioxide (CO₂), Dry powder

Unsuitable extinguishing media

no data available

5.2 **Special hazards arising from the substance or mixture**

carbon oxide

5.3 **Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 **Further information**

no data available

SECTION 6: Accidental release measures

6.1 **Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Avoid inhaling vapors, aerosols, or gases Eliminate all sources of ignition.

Evaluate personnel to a safe area. Pay attention to the accumulation of vapor to an explosive concentration, as vapor can accumulate in low-lying areas on the ground.

6.2 **Environmental precautions**

Do not allow the product to enter the sewer.

6.3 **Methods and materials for containment and cleaning up**

Soak up with inert absorbent material and dispose of as hazardous waste. Place in a suitable closed container for disposal.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid the formation of dust and aerosols. Provide suitable exhaust equipment in areas with dust generation.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool place. Keep the container tightly closed and store in a dry and ventilated place. Hygroscopic, Store at room temperature.

7.3 Specific end use(s)

no data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

8.2 Exposure controls

Appropriate engineering controls

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

Personal protective equipment

Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN166(EU).

Skin protection

Gloves must be checked before use. Please use proper methods to remove the gloves (do not touch the outer surface of the gloves), and avoid any skin parts contacting the product. After use, please handle the contaminated gloves carefully according to relevant laws and regulations and effective laboratory rules and procedures. Please clean and blow dry the protective gloves selected for your hands must meet the specifications given in regulation (EU) 2016 / 425 and the en 374 standard derived from it.

Body Protection

Complete suit protecting against chemicals, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a fullface respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

no data available

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

a) Appearance	form: liquid color: Colorless viscous
b) Odour	no data available
c) Odour Threshold	no data available
d) pH	6.0 - 7.0 at 20 °C (68 °F)
e) Melting point/freezing point	no data available
f) Initial boiling point and boiling range	203 - 204 °C (397 - 399 °F) - lit.
g) Flash point	108 °C (226 °F) - closed cup
h) Evaporation rate	no data available
i) Flammability (solid, gas)	no data available
j) Upper/lower flammability or explosive limits	1.9 %(V)
k) Vapour pressure	0.08 hPa (0.06 mmHg) at 20 °C (68 °F)
l) Vapour density	3.11- (Air = 1.0)
m) Relative density	1.005 g/mL at 25 °C (77 °F)
n) Water solubility	Slightly soluble in ether, easily soluble in water, easily soluble in ethanol.
o) Partition coefficient: n-octanol/water	-0.29
p) Auto-ignition temperature	no data available
q) Decomposition temperature	no data available
r) Viscosity	no data available
s) Explosive properties N	no data available
t) Oxidizing properties N	no data available

9.2 Other safety information

no data available

SECTION 10: Stability and reactivity**10.1 Reactivity**

no data available

10.2 Chemical stability

Stable under recommended storage conditions

10.3 Possibility of hazardous reactions

no data available

10.4 Conditions to avoid

Moisture proof.

10.5 Incompatible materials

strong oxidant, acid chloride, acid anhydride, chloroformate, reducing agent or reductant

10.6 Hazardous decomposition products

In case of fire, it will decompose into harmful substances. - Carbon oxide

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

no data available

Skin corrosion/irritation

no data available

Serious eye damage/eye irritation

no data available

Respiratory or skin sensitisation

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

no data available

Reproductive toxicity

no data available

Specific target organ toxicity - single exposure

no data available

Specific target organ toxicity - repeated exposure

no data available

Aspiration hazard

no data available

Additional Information

no data available

SECTION 12: Ecological information

12.1 Toxicity

no data available

12.2 Persistence and degradability

no data available

12.3 Bioaccumulative potential

no data available

12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

no data available

12.6 Other adverse effects

no data available

SECTION 13:

13.1 Disposal considerations

Product

Recycle to process, if possible. Consult your local regional authorities and an expert of disposal. You may be able to dissolve or mix material with a combustible solvent and little by little burn in a chemical incinerator equipped with an afterburner and scrubber system. If a large amount of the substance is burned at a time, an explosion may occur. Observe all federal, state and local regulations when disposing of the substance.

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information

DOT (US)

UN number: no data available

Packing group: no data available

Class: no data available



ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Proper shipping name: Non-hazardous goods Reportable Quantity(RQ):no data available Poison Inhalation Hazard:no data available

Environmental Hazards: No

IMDG

UN number:no data available Packing group:no data available EMS-No:no data available
Proper shipping name: Non-hazardous goods

IATA

UN number:no data available Packing group:no data available Class:no data available
Proper shipping name: Non-hazardous goods

SECTION 15: Regulatory information

no data available

SECTION 16: Other information

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