

Otto Chemie Pvt Ltd

An ISO 9001 : 2015 & GMP Certified Company
Office : No 603, 6th Floor, Tardeo AC Market, 87, Tardeo Road,
Tardeo, Mumbai, Maharashtra 400034, India (BHARAT)
Tel : + 91 98200 41841 Email : info@ottokemi.com Web : www.ottokemi.com

Creation Date: 30-06-2026

Revision Date: 25-05-2021

MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1: Product identifiers

Product Name: 1,4-Butanediol diacrylate, 90%
Product Code: B 9561
CAS No: 1070-70-8

1.2. Relevant identified uses of the substance or mixture and uses advised against
Use : Industrial. For professional use only.

1.3. Details of the supplier of the safety data sheet
Company identification
OTTO CHEMIE PVT LTD
No 603, 6th Floor, Tardeo AC Market, 87, Tardeo Road,
Tardeo, Mumbai, Maharashtra 400034, India (BHARAT)

1.4. Emergency telephone number
Phone no. : + 91 98200 41841 (10 : 00 am – 06 : 00 pm)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
Classification (REGULATION (EC) No 1272/2008)
Acute toxicity, Category 4
Acute toxicity, Category 4
Acute toxicity, Category 3
Skin corrosion, Sub-category 1B

Serious eye damage, Category 1
Skin sensitisation, Sub-category 1A
Long-term (chronic) aquatic hazard,
Category 3

2.2 Label elements
Labelling (REGULATION (EC) No 1272/2008)
Hazard pictograms
Signal word
Hazard statements

H302: Harmful if swallowed.
H332: Harmful if inhaled.
H311: Toxic in contact with skin.
H314: Causes severe skin burns and eye damage.
H318: Causes serious eye damage.
H317: May cause an allergic skin reaction.
H412: Harmful to aquatic life with long lasting effects.

:
: Danger
: H302 + H332 Harmful if swallowed or if inhaled.
: H311 Toxic in contact with skin.
: H314 Causes severe skin burns and eye damage.
: H317 May cause an allergic skin reaction.
: H412 Harmful to aquatic life with long lasting effects.

Precautionary
Statements

Prevention:
P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing/
eye protection/ face protection.
Response:
P301 + P312 IF SWALLOWED: Call a POISON CENTER/
doctor if you feel unwell.
P303 + P361 + P353 IF ON SKIN (or hair): Take off
immediately all contaminated clothing.
Rinse skin with water.
P304 + P340 + P310 IF INHALED: Remove person to
fresh air and keep comfortable for
breathing. Immediately call a POISON
CENTER/ doctor.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with

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Reduced Labelling (<= 125 ml)

Hazard pictograms

Signal word

Hazard Statements

H311

H317

H314

H412

Precautionary Statements

P280

P303 + P361 + P353

P304 + P340 + P310

P305 + P351 + P338

Supplemental Hazard
Statements

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.1 Substances

EC-No. : 213-979-6

Components

Chemical name	CAS-No. EC-No.	CAS-No. EC-No.	M-Factor, SCL, ATE
1,4-butyleneglycol diacrylate	1070-70-8 213-979-6	>= 90 - <= 100	

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : First aiders need to protect themselves.

Show this safety data sheet to the doctor in attendance.

If inhaled : After inhalation: fresh air. Immediately call in physician.

If breathing stops: immediately apply artificial respiration, if necessary also oxygen.

In case of skin contact : In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

Call a physician immediately.

In case of eye contact : After eye contact: rinse out with plenty of water.

Immediately call in ophthalmologist.

Remove contact lenses.

If swallowed : After swallowing: make victim drink water (two glasses at most), avoid vomiting (risk of perforation).

Call a physician immediately.

Do not attempt to neutralise.

water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

:

Danger

Toxic in contact with skin.

May cause an allergic skin reaction.

Causes severe skin burns and eye damage.

Harmful to aquatic life with long lasting effects.

Wear protective gloves/ protective clothing/ eye protection/ face protection.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

none

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4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

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

For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Specific hazards during

fire fighting

Combustible.

Vapours are heavier than air and may spread along floors.

Forms explosive mixtures with air on intense heating.

Development of hazardous combustion gases or vapours possible in the event of fire.

Hazardous combustion products

Carbon oxides

5.3 Advice for firefighters

Special protective

equipment for firefighters

: Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

Further information : Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Advice for non-emergency personnel:

Do not breathe vapours, aerosols.

Avoid substance contact.

Ensure adequate ventilation.

Evacuate the danger area, observe emergency procedures, consult an expert.

For personal protection see section 8.

6.2 Environmental precautions

Environmental precautions

Do not let product enter drains.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Cover drains. Collect, bind, and pump off spills.

Observe possible material restrictions (see sections 7 and 10).

Take up carefully with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

6.4 Reference to other sections

For disposal considerations see section 13.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Work under hood. Do not inhale substance/mixture.

Avoid generation of vapours/aerosols.

Hygiene measures : Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Further information on

storage conditions

: Tightly closed. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorised persons.

Storage class (TRGS 510) : 6.1A, Combustible, acute toxic Cat. 1 and 2 / very toxic hazardous materials

Recommended storage

Temperature : 2 - 8 °C

Packaging material : Suitable material: Amber Glass Bottle/Jar

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

8.2 Exposure controls

Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection : Use equipment for eye protection tested and approved under appropriate government standards

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

Tightly fitting safety goggles

Hand protection

Material : butyl-rubber

Break through time : 480 min

Glove thickness : 0,7 mm

Protective index : Full contact

Manufacturer : Butoject® (KCL 898)

Material : Nitrile rubber

Break through time : 30 min

Glove thickness : 0,4 mm

Protective index : Splash contact

Manufacturer : Camatril®

Remarks : This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D36124 Eichenzell, Internet: www.kcl.de).

Skin and body protection : protective clothing

Respiratory protection : required when vapours/aerosols are generated.

Our recommendations on filtering respiratory protection are based on the following standards: DIN

EN 143, DIN 14387 and other accompanying

standards relating to the used respiratory protection system.

Recommended Filter type: Filter type ABEK

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer.

These measures have to be properly documented.

Environmental exposure controls

Advice : Do not let product enter drains.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	: Liquid
Color	: colourless
Odor	: fruity
Melting point/ range	: -6 °C (1.013,25 hPa) Method: OECD Test Guideline 102 GLP: yes
Boiling point/boiling range	: 83 °C (0,4 hPa) Method: lit.
Flammability	: No data available
Upper explosion limit / Upper flammability limit	: Upper explosion limit 7 %(V)
Lower explosion limit / Lower flammability limit	: Lower explosion limit 1,3 %(V)
Flash point	: > 113 °C
Autoignition temperature	: 257 °C (1.026 hPa) Method: Regulation (EC) No. 440/2008, Annex, A.15 GLP: yes
Decomposition temperature	: No data available
pH	: No data available
Viscosity	
Viscosity, dynamic	: 4,63 mPa.s (20 °C)
Viscosity, kinematic	: No data available
Flow time	: No data available
Solubility(ies)	
Water solubility	: 3,1 g/l (20 °C) pH: 7,3 Method: OECD Test Guideline 105 GLP: yes
Partition coefficient: noctanol/water	: log Pow: 1,9 (23 °C) pH: 6,1 Method: OECD Test Guideline 117 GLP: yes
Vapor pressure	: Bioaccumulation is not expected. : 0,005 hPa (20 °C) Method: OECD Test Guideline 104 GLP: yes
Relative density	: 1,05 (20 °C) Method: OECD Test Guideline 109 GLP: yes
Density	: 1,051 g/mL (25 °C) Method: lit.
Relative vapour density	: No data available
9.2 Other information	
Explosives	: Method: Explosive properties GLP: yes Not classified as explosive.
Oxidizing properties	: none
Burning rate	: No data available
Evaporation rate	: No data available
Molecular weight	: 198,22 g/mol

SECTION 10: Stability and reactivity

10.1 Reactivity

Forms explosive mixtures with air on intense heating.

A range from approx. 15 Kelvin below the flash point is to be rated as critical.

10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

10.3 Possibility of hazardous reactions

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Hazardous reactions : Violent polymerisation may be caused by:

polymerisation initiators

Strong oxidizing agents

strong reducing agents

Peroxides

10.4 Conditions to avoid

Conditions to avoid : Strong heating.

10.5 Incompatible materials

No data available

10.6 Hazardous decomposition products

In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Routes of Entry: Absorbed through skin. Dermal contact. Eye contact. Toxicity to Animals:

Oral LD50 Rat: 1500 mg/kg; Dermal LD50 Rabbit: 2000mg/kg Inhalation LC50 Rat: > 50mg/L.

Chronic Effects on Humans: CARCINOGENIC EFFECTS: Classified None. by NTP, None. by OSHA, None. by NIOSH.

Other Toxic Effects on Humans: Hazardous in case of skin contact (irritant), of inhalation (lung irritant).

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: Not available.

Special Remarks on other Toxic Effects on Humans: Not available.

SECTION 12: Ecological information

12.1 Toxicity

Components:

1,4-butyleneglycol diacrylate:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 1,0 - 2,15 mg/l

End point: mortality Exposure time: 96 h

Test Type: static test Method: OECD Test Guideline 203 GLP: yes

Toxicity to daphnia and other aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 4,59 mg/l

End point: Immobilization Exposure time: 48 h

Test Type: static test Analytical monitoring: yes

Method: Regulation (EC) No. 440/2008, Annex, C.2

Toxicity to algae/aquatic plants

ErC50 (Pseudokirchneriella subcapitata): 1,76 mg/l

Exposure time: 72 h Test Type: static test

Analytical monitoring: yes Method: OECD Test Guideline 201 GLP: yes

Toxicity to microorganisms

EC50 (Pseudomonas putida): 5.650 mg/l

Exposure time: 16 h Test Type: static test

Method: ISO 10712 GLP: yes

Ecotoxicology Assessment

Acute aquatic toxicity : This product has no known ecotoxicological effects.

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

12.2 Persistence and degradability

Components:

1,4-butyleneglycol diacrylate:

Biodegradability : Test Type: aerobic

Inoculum: activated sludge, non-adapted

Concentration: 34 mg/l Result: Readily biodegradable.

Biodegradation: 90 - 100 % Exposure time: 22 d

GLP: yes Remarks: (ECHA)

12.3 Bioaccumulative potential

Components:

1,4-butyleneglycol diacrylate:

Partition coefficient: noctanol/water log Pow: 1,9 (23 °C) pH: 6,1

Method: OECD Test Guideline 117 GLP: yes

Remarks: Bioaccumulation is not expected.

12.4 Mobility in soil

No data available

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12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

Product:

Assessment

: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

Components:

1,4-butyleneglycol diacrylate:

Additional ecological information Discharge into the environment must be avoided.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

SECTION 14: Transport information

14.1 UN number or ID number

ADR

: UN 2922

IMDG

: UN 2922

IATA

: UN 2922

14.2 UN proper shipping name

ADR

: CORROSIVE LIQUID, TOXIC, N.O.S.
(1,4-butyleneglycol diacrylate)

IMDG

: CORROSIVE LIQUID, TOXIC, N.O.S.
(1,4-butyleneglycol diacrylate)

IATA

: Corrosive liquid, toxic, n.o.s.
(1,4-butyleneglycol diacrylate)

14.3 Transport hazard class(es)

Class Subsidiary risks

ADR

: 8 6.1

IMDG

: 8 6.1

IATA

: 8 6.1

14.4 Packing group

ADR

Packing group

: II

Classification Code

: CT1

Hazard Identification

: 86

Number

Labels

: 8 (6.1)

Tunnel restriction code

: (E)

IMDG

Packing group

: II

Labels

: 8 (6.1)

EmS Code

: F-A, S-B

IATA (Cargo)

Packing instruction (cargo aircraft)

: 855

Packing instruction (LQ)

: Y840

Packing group

: II

Labels

: Class 8 - Corrosive substances, Division 6.1 - Toxic

substances

IATA_P (Passenger)

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Packing instruction : 851
(passenger aircraft)
Packing instruction (LQ) : Y840
Packing group : II
Labels : Class 8 - Corrosive substances, Division 6.1 - Toxic
substances
14.5 Environmental hazards
ADR
Environmentally : no
hazardous
IMDG
Marine pollutant : no

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)

Conditions of restriction for the following entries should be considered:

Number on list 3

Number on list 75

If you intend to use this product as tattoo ink, please contact your vendor.

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).

Not applicable

Regulation (EU) No 2024/590 on substances that deplete the ozone layer

Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast)

Not applicable

REACH - List of substances subject to : Not applicable authorisation (Annex XIV)

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

Not applicable

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out

SECTION 16: Other Information

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

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