

Material Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Bicyclo[2.2.2]octane-2,3,5,6-tetracarboxylic 2,3:5,6-diimide

Revision date 21.05.2025

Version 1 Replaces version from -

1. Identification of the substance/Mixture and of the company/undertaking

1.1 Product identifier

Product name Bicyclo[2.2.2]octane-2,3,5,6-tetracarboxylic 2,3:5,6-diimide

CAS-No. 1367346-83-5

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

against

Identified uses Laboratory chemicals, Manufacture of substances.

1.3 Details of the supplier of the safety data sheet

Name Valsynthese SA Factory address Valsynthese SA

> Fabrikstrasse 48 PO Box 636

> > 3900 Brig / Switzerland

Office address Valsynthese SA

Societe Suisse des Explosifs Group

PO Box 636

3900 Brig / Switzerland

Information Departement
This number is available only during office hours.

Phone +41 27 922 71 11 E-Mail (Responsible person): msds@sse-group.com

1.4 Emergency Phone +41 27 922 71 11 (only during office hours) or

Number Toxicological Information Centre in Switzerland: Tel. 145

or +41 (0) 44 251 51 51



2. Hazards Identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin corrosion/irritation (Category 2), H315

Serious eye damage/eye irritation (Category 2A), H319

Specific target organ toxicity, single exposure; Respiratory system (Category 3), H335

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008

Hazard pictogram(s)



Signal word Warning

Hazard statement(s)

H315 Causes skin irritation.

H319 Causes serious eye irritation. H335 May cause respiratory irritation.

Precautionary statement(s)

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face

protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue

rinsing.

Supplemental Hazard

Statements

none

2.3 Other hazards

No data available

3. Composition / Information on ingredients

3.1 Substance

Product name Bicyclo[2.2.2]octane-2,3,5,6-tetracarboxylic 2,3:5,6-diimide

Molecular formula $C_{12}H_{12}N_2O_4$ Molecular weight 248.23 g/mol CAS-No. 1367346-83-5



Hazardous ingredients according to Regulation (EC) No 1272/2008

Component	Classification	Concentration
Bicyclo[2.2.2]octane-2,3,5,6-tetracarboxylic 2,3:5,6-diimide		
CAS-No. 1367346-83-5	Skin Irrit. 2; Eye Irrit. 2; STOT SE 3; H315, H319, H335	<=100%

For the full text of the H-Statements and R-Phrases mentioned in this Section, see Section 16.

4. First-aid measures

4.1 Description of first aid measures

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

doctor in attendance.

If swallowed Never give anything by mouth to an unconscious person.

Rinse mouth with water. Consult a physician.

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

give artificial respiration. Consult a physician.

In case of skin contact Wash off with soap and plenty of water. Consult a physician.

In case of eye contact Rinse thoroughly with plenty of water for at least 15 minutes

and consult a physician.

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

5. Fire fighting measures

5.1 Extinguishing media

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

media carbon dioxide.

Unsuitable extinguishing For this substance/mixture no limitations of extinguishing

media agents are given.

5.2 Special hazards arising from the substance or mixture

Carbon dioxide Nitrogen oxides

5.3 Advice for fire fighters

Wear self-contained breathing apparatus for firefighting if necessary.



5.4 Additional information

No data available

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and material for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For further and detailed information see section 8 and 13.

7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Advice on protection against fire and explosion

Provide appropriate exhaust ventilation at places where dust is formed.

Hygiene measures

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

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

7.3 Specific end use(s)

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

8. Exposure controls / Personal protection

8.1 Control parameters

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.



8.2 Exposure controls

Personal protective equipment

Safety glasses with side-shields conforming to EN166 Use Eye/face protection

equipment for eye protection tested and approved under

appropriate government standards such as

NIOSH (US) or EN 166(EU).

Handle with gloves. Gloves must be inspected prior to use. Skin protection

> 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.

The selected protective gloves have to satisfy the

specifications of EU Directive 89/686/EEC and the standard EN

374 derived from it.

Impervious clothing, The type of protective equipment must **Body Protection**

be selected according to the concentration and amount of the

dangerous substance at the specific workplace.

For nuisance exposures use type P95 (US) or type P2 (EU EN Respiratory protection

> 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as

NIOSH (US) or CEN (EU).

Environmental exposure

controls

Do not let product enter drains.

Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state solid Color white

Odor No data available pH value No data available

Melting point none up to 400°C (by DSC)

Initial boiling point and

boiling range

No data available

Flash point No data available Evaporation rate No data available No data available Flammability (solid, gas) Upper/lower flammability No data available

or explosive limits

Vapour pressure No data available Relative density No data available



Solubility 1.68 g/L in Methanol, 1.65 g/L in Acetone, >200 g/L in 1M

NaOH (decomp.)

Partition coefficient: n-

octanol/water

No data available

Auto-ignition temperature No data available Decomposition temperature No data available Viscosity No data available Explosive properties No data available

Oxidizing properties

No data available

No data available

9.2 Other information

No data available

10. Stability and reactivity

10.1 Reactivity

Not data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Not data available

10.4 Conditions to avoid

Not data available

10.5 Incompatible materials

Not data available

10.6 Hazardous decomposition products

In the event of fire: see section 5

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

No data available
Skin corrosion/irritation

No data available
Serious eye damage/eye

No data available

irritation

Eye damage/irritation No data available Respiratory or skin No data available

sensitisation

Germ cell mutagenicity No data available



Carcinogenicity

Reproductive toxicity

STOT-single exposure

STOT-repeated exposure

Aspiration hazard

No data available

No data available

No data available

11.2 Additional information

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. Ecological information

12.1 Toxicity

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulation 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 Endocrine disrupting properties

No data available

12.7 Other adverse effects

No data available

13. Disposal considerations

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging

Dispose of as unused product.



14. Transport information

14.1 UN Number

ADR/RID: - IMDG: - IATA: -

14.2 UN proper shipping name

ADR/RID: Not dangerous IMDG: Not dangerous goods IATA: Not dangerous goods

goods

14.3 Transport hazard class(es)

ADR/RID: - IMDG: - IATA: -

14.4 Packing group

ADR/RID: - IMDG: - IATA: -

14.5 Environmental hazards

ADR/RID: no IMDG Marine pollutant: no IATA: no

14.6 Special precautions for user

No data available

Further information

Not classified as dangerous in the meaning of transport regulations.

15. Regulatory information

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

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

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out.

16. Other information

16.1 Information regarding the revision of the safety data sheet

Version 1 based on the classification according to Regulations (EC) No 1272/2008, (EU) 878/2020.

16.2 Full text of H-Statements referred to under sections 2 and 3

H315 Causes skin irritation.

H319 Causes serious eye irritation. H335 May cause respiratory irritation.



16.3 Additional information

The information contained herein is in conformity with EU Directive EC 1907/2006 and EC 1272/2008, and is believed to be accurate and represents the best information currently available to us on the date of publication. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Valsynthese SA be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Valsynthese SA has been advised of the possibility of such damages.

