

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended

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

1.1 Product identifier

Trade name : 1,2-Benzisothiazol-3(2H)-one [for Biochemical Research]

Product code : B3767 Index-No. : 613-088-00-6 EC-No. : 220-120-9

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

Use of the Substance/Mixture : Use as laboratory reagent

1.3 Details of the supplier of the safety data sheet

Company : TCI EUROPE N.V.

Address : Boereveldseweg 6 - Haven 1063, B-2070 Zwijndrecht, Belgium

Telephone : +32 (0)3 735 07 00
Telefax : +32 (0)3 735 07 01
E-mail address of person respon- : sales-eu@tcichemicals.com

sible for the SDS

1.4 Emergency telephone number

Emergency telephone number : +44 844 892 0111

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 2
Skin irritation, Category 2
Serious eye damage, Category 1
Skin sensitisation, Sub-category 1A
Specific target organ toxicity - single expoH302: Harmful if swallowed.
H330: Fatal if inhaled.
H315: Causes skin irritation.
H318: Causes serious eye damage.
H317: May cause an allergic skin reaction.
H371: May cause damage to organs.

sure, Category 2, Nervous system

Short-term (acute) aquatic hazard, Category 1 H400: Very toxic to aquatic life.

Long-term (chronic) aquatic hazard, Category H410: Very toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :









Signal word : Danger

Hazard statements : H302 Harmful if swallowed. H315 Causes skin irritation.

H317 May cause an allergic skin reaction.H318 Causes serious eye damage.

H330 Fatal if inhaled.

H371 May cause damage to organs (Nervous system).H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements : Prevention:

P260 Do not breathe dust.

P273 Avoid release to the environment.

P280 Wear protective gloves/ eye protection/ face protection.

B3767: 1,2-Benzisothiazol-3(2H)-one [for Biochemical Research]

Response:

P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON

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CENTER/ doctor.

P305 + P351 + P338 + P310 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/ doctor. Collect spillage. P391

Storage:

P403 + P233 Store in a well-ventilated place. Keep container

tightly closed.

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

1,2-Benzisothiazol-3(2H)-one [for Biochemical Research] Substance name

Index-No. 613-088-00-6 EC-No. 220-120-9

Components

Chemical name	CAS RN EC-No.	Concentration (% w/w)	M-Factor, SCL, ATE
1,2-Benzisothiazol-3(2H)-one	2634-33-5 220-120-9	>= 90 - <= 100	M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1 specific concentration limit Skin Sens. 1A; H317 >= 0,036 %

SECTION 4: First aid measures

4.1 Description of first aid measures

If inhaled Remove person to fresh air and keep comfortable for breathing.

Immediately call a POISON CENTER or doctor/ physician.

In case of skin contact Take off all contaminated clothing immediately.

Wash off with soap and plenty of water. Call a POISON CENTER or doctor/ physician.

Rinse with plenty of water. In case of eye contact

If easy to do, remove contact lens, if worn.

Immediately call a POISON CENTER or doctor/physician.

If swallowed Call a POISON CENTER or doctor/ physician.

Rinse mouth.

4.2 Most important symptoms and effects, both acute and delayed

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Harmful if swallowed. Risks

Causes skin irritation.

May cause an allergic skin reaction. Causes serious eye damage.

Fatal if inhaled.

May cause damage to organs.

4.3 Indication of any immediate medical attention and special treatment needed

None known.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Dry powder, Foam, Water spray, Carbon dioxide (CO2)

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-

fighting

Take care as it may decompose upon combustion or in high tem-

peratures to generate poisonous fume.

5.3 Advice for firefighters

Special protective equipment for :

firefighters

Use personal protective equipment.

Specific extinguishing methods Use extinguishing measures that are appropriate to local circum-

stances and the surrounding environment. Immediately evacuate personnel to safe areas. Remove undamaged containers from fire

area if it is safe to do so.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions Wear suitable protective equipment. Keep people away from and

upwind of spill/leak. Entry to non-involved personnel should be con-

trolled around the leakage area by roping off, etc.

6.2 Environmental precautions

Environmental precautions Should not be released into the environment.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Pick up and arrange disposal without creating dust.

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Technical measures Prevent dispersion of dust.

Local/Total ventilation Ensure adequate ventilation.

Handle product only in closed system or provide appropriate exhaust

ventilation at machinery. Use a local exhaust ventilation.

Advice on safe handling Avoid contact with skin, eyes and clothing.

Wear personal protective equipment.

Wash hands and face thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas

and containers

Keep container tightly closed. Store in a refrigerator. Keep in a well-

ventilated place. Store locked up.

Storage class (TRGS 510) 11

7.3 Specific end use(s)

Specific use(s) : No information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Engineering measures

Install a closed system or local exhaust. Also install safety shower and eye bath.

Personal protective equipment

Eye/face protection : Safety glasses, Safety goggles, Face-shield

Hand protection : Impervious gloves

Skin and body protection : Impervious protective clothing

Respiratory protection : Dustproof gas mask

Self-contained breathing apparatus

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state : Solid form
Colour : white - yellow
Odour : No data available
Odour Threshold : No data available

Melting point/freezing point : 158 °C

Boiling point/boiling range : No data available Flammability : No data available Upper explosion limit/Upper : No data available

flammability limit

Lower explosion limit/Lower : No data available

flammability limit

Flash point : No data available
Auto-ignition point : No data available
Decomposition temperature : No data available
pH : No data available

Viscosity

Viscosity, dynamic : No data available Viscosity, kinematic : No data available

Solubility(ies)

Water solubility : very slightly soluble Solubility in other solvents : No data available

Partition coefficient: n- : 1,45

octanol/water (log value)

Vapour pressure : No data available
Relative density : No data available
Relative vapour density : No data available
Particle characteristics : No data available

9.2 Other information

Molecular weight : 151,18 g/mol

^{*}Use personal protective equipment(PPE) approved under appropriate government standards and follow local and national regulations.

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions None under normal processing.

10.4 Conditions to avoid

Conditions to avoid Heat,

10.5 Incompatible materials

Materials to avoid Oxidizing agents,

10.6 Hazardous decomposition products

Carbon monoxide, Carbon dioxide (CO2), Nitrogen oxides (NOx), Sulphur oxides

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Harmful if swallowed. Fatal if inhaled.

Product:

Acute oral toxicity Assessment: The component/mixture is moderately toxic after single

ingestion.

Acute inhalation toxicity Assessment: The component/mixture is highly toxic after short term

Acute dermal toxicity Assessment: The substance or mixture has no acute dermal toxicity

Components:

1,2-Benzisothiazol-3(2H)-one:

Acute oral toxicity LD50 (Rat): 454 mg/kg

Assessment: The component/mixture is moderately toxic after single

ingestion.

Acute inhalation toxicity LC50 (Rat): 0,25 mg/l

Test atmosphere: dust/mist

Assessment: The component/mixture is highly toxic after short term

inhalation.

Acute dermal toxicity LD50 (Rat): > 2000 mg/kg

Assessment: The substance or mixture has no acute dermal toxicity

Skin corrosion/irritation

Causes skin irritation.

Product:

Skin irritation Result

Components:

1,2-Benzisothiazol-3(2H)-one:

Result Skin irritation

Serious eye damage/eye irritation

Causes serious eye damage.

Product:

Result : Irreversible effects on the eye

Components:

1,2-Benzisothiazol-3(2H)-one:

Result : Irreversible effects on the eye

Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified due to lack of data.

Product:

Assessment : The product is a skin sensitiser, sub-category 1A.

Components:

1,2-Benzisothiazol-3(2H)-one:

Assessment : The product is a skin sensitiser, sub-category 1A.

Germ cell mutagenicity

Not classified due to lack of data.

Carcinogenicity

Not classified due to lack of data.

Reproductive toxicity

Not classified due to lack of data.

STOT - single exposure

May cause damage to organs (Nervous system).

Product:

Target Organs : Nervous system

Assessment : May cause damage to organs.

Components:

1,2-Benzisothiazol-3(2H)-one:

Target Organs : Nervous system

Assessment : May cause damage to organs.

STOT - repeated exposure

Not classified due to lack of data.

Repeated dose toxicity : No information available.

Aspiration toxicity

Aspiration toxicity : Not classified due to lack of data.

RTECS No. : DE4620000 (1,2-Benzisothiazol-3(2H)-one)

11.2 Information on other hazards

Endocrine disrupting properties

Product:

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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.

SECTION 12: Ecological information

12.1 Toxicity

Product:

Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity Very toxic to aquatic life with long lasting effects.

Components:

1,2-Benzisothiazol-3(2H)-one:

Toxicity to daphnia and other

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 2,94 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic plants EC50 (Pseudokirchneriella subcapitata (green algae)): 0,11 mg/l

Exposure time: 72 h

NOEC (Pseudokirchneriella subcapitata (green algae)): 0,0403 mg/l

Exposure time: 72 h

M-Factor (Acute aquatic toxicity) M-Factor (Chronic aquatic toxici:

ty)

Ecotoxicology Assessment

Acute aquatic toxicity Very toxic to aquatic life.

Chronic aquatic toxicity Very toxic to aquatic life with long lasting effects.

12.2 Persistence and degradability

Components:

1,2-Benzisothiazol-3(2H)-one:

Biodegradability Biodegradation: 0 %

Related to: Biochemical oxygen demand

12.3 Bioaccumulative potential

Components:

1,2-Benzisothiazol-3(2H)-one:

Partition coefficient: n-1,45 octanol/water (log value)

12.4 Mobility in soil

No data available

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

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Disposal in accordance with local and national regulations.

Entrust disposal to a licensed waste disposal company.

Contaminated packaging : Disposal in accordance with local and national regulations.

Before disposal of used container, remove contents completely.

SECTION 14: Transport information

14.1 UN number or ID number

 ADR
 : UN 2811

 IMDG
 : UN 2811

 IATA
 : UN 2811

14.2 UN proper shipping name

ADR : TOXIC SOLID, ORGANIC, N.O.S. IMDG : TOXIC SOLID, ORGANIC, N.O.S.

IATA : Toxic solid, organic, n.o.s.

14.3 Transport hazard class(es)

Class Subsidiary risks

ADR : 6.1 IMDG : 6.1 IATA : 6.1

14.4 Packing group

ADR

Packing group : II
Classification Code : T2
Hazard Identification Number : 60
Tunnel restriction code : (D/E)

IMDG

Packing group : II

EmS Code : F-A, S-A

IATA (Cargo)

Packing instruction (cargo air- : 676

craft)

Packing instruction (LQ) : Y644
Packing group : II

IATA (Passenger)

Packing instruction (passenger

aircraft)

Packing instruction (LQ) : Y644

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Packing group Ш

14.5 Environmental hazards

ADR

Environmentally hazardous 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 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 (EC) on substances that deplete the ozone layer Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants

(recast)

Not applicable

Regulation (EU) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous

chemicals

Not applicable

REACH - List of substances subject to authorisation (Annex

XIV)

Not applicable

Water hazard class (Germany) WGK 2 obviously hazardous to water

Classification according to AwSV, Annex 1 (5.2)

Other regulations:

The product is subject to the supply restrictions of the Ordinance on the Prohibition of Chemicals.

Take note of Law on the protection of mothers at work, in education and in studies (Maternity Protection Act - MuSchG).

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

The components of this product are reported in the following inventories:

CH BAGREG On the inventory, or in compliance with the inventory

TSCA All substances listed as active on the TSCA inventory

AIIC On the inventory, or in compliance with the inventory

DSL All components of this product are on the Canadian DSL

ENCS On the inventory, or in compliance with the inventory

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ISHL : On the inventory, or in compliance with the inventory

KECI : On the inventory, or in compliance with the inventory

PICCS : On the inventory, or in compliance with the inventory

IECSC : On the inventory, or in compliance with the inventory

NZIoC : Not in compliance with the inventory

TECI : On the inventory, or in compliance with the inventory

15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

SECTION 16: Other information

Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road: AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA -International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Cooperation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR -(Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

This SDS was prepared sincerely based on the information obtained, however, any warranty shall not be given regarding the data contained and the assessment of hazards and toxicity. Prior to use, please investigate not only the hazards and toxicity information but also the laws and regulations of the organization, area and country where the products are to be used, which shall be given the first priority. The products are supposed to be used promptly after purchase in consideration of safety. Some new information or amendments may be added afterwards. If the products are to be used far behind the expected time of use or you have any questions, please feel free to contact us. The stated cautions are for normal handling only. In case of special handling operations, sufficient care should be taken, in addition to the safety measures suitable for the given situation. All chemical products should be treated with the recognition of "having unknown hazards and toxicity", which differ greatly depending on the conditions and handling when in use and/or the conditions and duration of storage. The products must be handled only by those who are familiar with specialized knowledge and have experience or under the guidance of those specialists

throughout use from opening to storage and disposal. Safe usage conditions shall be set up on each user's own responsibility.

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