

SAFETY DATA SHEET

Version 6.6 Revision Date 08/06/2024 Print Date 08/07/2024

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

1.1 Product identifiers

Product name : Bis(3-aminopropyl)amine

Product Number : I1006 Brand : Aldrich CAS-No. : 56-18-8

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

Identified uses : Laboratory chemicals, Synthesis of substances

Uses advised against : The product is being supplied under the TSCA R&D Exemption

(40 CFR Section 720.36). It is the recipient's responsibility to comply with the requirements of the R&D exemption. The product may not be used for a non-exempt commercial purpose under TSCA unless appropriate consent is granted in writing by

MilliporeSigma.

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.

3050 SPRUCE ST ST. LOUIS MO 63103 UNITED STATES

Telephone : +1 314 771-5765 Fax : +1 800 325-5052

1.4 Emergency telephone

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-

527-3887 CHEMTREC (International) 24

Hours/day; 7 Days/week

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Acute toxicity, Oral (Category 4), H302 Acute toxicity, Inhalation (Category 1), H330 Acute toxicity, Dermal (Category 3), H311 Skin corrosion (Category 1A), H314

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Serious eye damage (Category 1), H318 Respiratory sensitization (Category 1), H334 Skin sensitization (Sub-category 1A), H317 Germ cell mutagenicity (Category 2), H341

Pictogram

Specific target organ toxicity - repeated exposure (Category 2), thymus, H373

Short-term (acute) aquatic hazard (Category 3), H402

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

2.2 GHS Label elements, including precautionary statements

| | * * * |
|-------------------|--|
| Signal Word | Danger |
| Hazard Statements | |
| H302 | Harmful if swallowed. |
| H311 | Toxic in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H317 | May cause an allergic skin reaction. |
| H330 | Fatal if inhaled. |
| H314 H317 | Causes severe skin burns and eye damage. May cause an allergic skin reaction. |

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Suspected of causing genetic defects. H341 H373

May cause damage to organs (thymus) through prolonged or repeated exposure.

Harmful to aquatic life. H402

| 11102 | Tarmar to aquatic mer |
|--------------------------|---|
| Precautionary Statements | |
| P201 | Obtain special instructions before use. |
| P202 | Do not handle until all safety precautions have been read and understood. |
| P260 | Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. |
| P264 | Wash skin thoroughly after handling. |
| P270 | Do not eat, drink or smoke when using this product. |
| P271 | Use only outdoors or in a well-ventilated area. |
| P272 | Contaminated work clothing must not be allowed out of the workplace. |
| P273 | Avoid release to the environment. |
| DO00 | |

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

P284 Wear respiratory protection.

IF SWALLOWED: Call a POISON CENTER/ doctor if you feel P301 + P312 + P330

unwell. Rinse mouth.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P301 + P330 + P331 P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated

clothing. Rinse skin with water/ shower. IF INHALED: Remove person to fresh air and keep comfortable P304 + P340 + P310

for breathing. Immediately call a POISON CENTER/ doctor. P305 + P351 + P338 + IF IN EYES: Rinse cautiously with water for several minutes.

P310 Remove contact lenses, if present and easy to do. Continue

rinsing. Immediately call a POISON CENTER/ doctor.

P308 + P313 IF exposed or concerned: Get medical advice/ attention.



| P333 + P313 | If skin irritation or rash occurs: Get medical advice/ attention. |
|-------------|---|
| P362 | Take off contaminated clothing and wash before reuse. |
| P403 + P233 | Store in a well-ventilated place. Keep container tightly closed. |
| P405 | Store locked up. |
| P501 | Dispose of contents/ container to an approved waste disposal plant. |

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

SECTION 3: Composition/information on ingredients

3.1 Substances

Synonyms : Norspermidine

N-(3-Aminopropyl)-1,3-propanediamine

3,3'-Iminodipropylamine 3,3'-Diaminodipropylamine

Dipropylenetriamine

| Component | Classification | Concentration | |
|---------------------------|--|---------------|--|
| 3,3'-iminodi(propylamine) | | | |
| | Acute Tox. 4; Acute Tox. 1; Acute Tox. 3; Skin Corr. 1A; Eye Dam. 1; Skin Sens. 1A; Muta. 2; STOT RE 2; Aquatic Acute 3; H302, H330, H311, H314, H318, H317, H341, H373, H402 | <= 100 % | |

| 1,3-diaminopropane | | | |
|--------------------|-----------------------------|--------------|--|
| | Flam. Liq. 3; Met. Corr. 1; | >= 0.1 - < 1 | |
| | Acute Tox. 4; Acute Tox. | % | |
| | 2; Skin Corr. 1B; Eye | | |
| | Dam. 1; Resp. Sens. 1B; | | |
| | Skin Sens. 1B; Aquatic | | |
| | Acute 3; H226, H290, | | |
| | H302, H310, H314, H318, | | |
| | H334, H317, H402 | | |

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





SECTION 4: First aid measures

4.1 Description of first-aid measures

No data available

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

No data available

5.2 Special hazards arising from the substance or mixture

Carbon oxides
Nitrogen oxides (NOx)
Combustible.

5.3 Advice for firefighters

No data available

5.4 Further information

No data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For personal protection see section 8.

6.2 Environmental precautions

No data available

6.3 Methods and materials for containment and cleaning up

No data available

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

No data available

7.3 Specific end use(s)

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

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SECTION 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

Skin 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.

Full contact

Material: butyl-rubber

Minimum layer thickness: 0.3 mm Break through time: 480 min

Material tested:Butoject® (KCL 897 / Aldrich Z677647, Size M)

Splash contact

Material: butyl-rubber

Minimum layer thickness: 0.3 mm Break through time: 480 min

Material tested:Butoject® (KCL 897 / Aldrich Z677647, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail

sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the EC approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Control of environmental exposure

Prevent product from entering drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a) Appearance Form: liquid

Color: colorless, light yellow

b) Odor amine-like

c) Odor Threshold No data available

d) pH 12 at 100 g/l at 20 °C (68 °F)

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e) Melting point/ range: -14 °C (7 °F) - lit. point/freezing point

f) Initial boiling point 151 °C 304 °F at 67 hPa - lit. and boiling range

g) Flash point 117 °C (243 °F) - closed cup

h) Evaporation rate No data availablei) Flammability (solid, No data available

gas)

j) Upper/lower No data available flammability or

explosive limits
k) Vapor pressure 0.05 hPa at 20 °C (68 °F)

1.15 hPa at 50 °C(122 °F)

I) Vapor density No data available

m) Density 0.938 g/cm3 at 25 °C (77 °F) - lit.

Relative density No data available

n) Water solubility soluble

o) Partition coefficient: log Pow: -1.25 at 25 °C (77 °F) n-octanol/water

p) Autoignition The substance or mixture is not classified as self heating. temperature

q) Decomposition 265 °C (509 °F), 120 kJ/kg - temperature

r) Viscosity No data availables) Explosive properties Not explosive

t) Oxidizing properties No data available

9.2 Other safety information

Dissociation constant 10.7 at 30 °C (86 °F)

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

No data available

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

No data available



10.5 Incompatible materials

Strong oxidizing agents

10.6 Hazardous decomposition products

In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Acute toxicity estimate Oral - 738 mg/kg (Calculation method) LD50 Oral - Rat - 738 mg/kg Acute toxicity estimate Inhalation - 4 h - 0.03 mg/l - dust/mist(Calculation method)

LC50 Inhalation - Rat - 4 h - 0.03 mg/l - dust/mist

Acute toxicity estimate Dermal - 298.99 mg/kg (Calculation method) LD50 Dermal - Rat - > 200 - < 400 mg/kg No data available

Skin corrosion/irritation

Skin - Rabbit Result: Causes severe burns. (OECD Test Guideline 404)

Serious eye damage/eye irritation

Eyes - Rabbit

Result: Corrosive to eyes

Respiratory or skin sensitization

in vivo assay - Mouse The product is a skin sensitizer, sub-category 1A. (OECD Test Guideline 429)

Germ cell mutagenicity

Result: Not mutagenic in Ames Test.

Result: Positive results were obtained in some in vivo tests.

Carcinogenicity

IARC: No ingredient of this product present at levels greater than or equal to 0.1% is

identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No ingredient of this product present at levels greater than or equal to 0.1% is

identified as a known or anticipated carcinogen by NTP.

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OSHA: No component of this product present at levels greater than or equal to 0.1% is

on OSHA's list of regulated carcinogens.

Reproductive toxicity

Did not show teratogenic effects in animal experiments. Animal testing did not show any effects on fertility.

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

May cause damage to organs through prolonged or repeated exposure. - thymus

Aspiration hazard

No data available

11.2 Additional Information

RTECS: JL9450000

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., Cough, Shortness of breath, Headache, Nausea

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish LC50 - Leuciscus idus (Golden orfe) - 230 mg/l - 96 h

Toxicity to daphnia EC50 - Daphnia magna (Water flea) - 37.35 mg/l - 48 h

and other aquatic invertebrates

Toxicity to algae EC50 - Desmodesmus subspicatus (green algae) - 599.2 mg/l - 72 h

12.2 Persistence and degradability

Biodegradability Result: 80 - 90 % - Readily biodegradable.

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Endocrine disrupting properties

No data available

12.7 Other adverse effects

No data available



SECTION 13: Disposal considerations

13.1 Waste treatment methods

No data available

SECTION 14: Transport information

DOT (US)

UN number: 2269 Class: 8 Packing group: III

Proper shipping name: 3,3'-Iminodipropylamine

Reportable Quantity (RQ):

Poison Inhalation Hazard: No

IMDG

UN number: 2269 Class: 8 Packing group: III EMS-No: F-A, S-B

Proper shipping name: 3,3'-IMINODIPROPYLAMINE

IATA

UN number: 2269 Class: 8 Packing group: III

Proper shipping name: 3,3'-Iminodipropylamine

SECTION 15: Regulatory information

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

| Components | CAS-No. | Component TPQ (lbs) |
|-------------------------|---|---------------------|
| SARA 311/312 Hazards | : Acute Health Haz Chronic Health H | |
| SARA 313 | This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313. | |

US State Regulations

Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.

Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know

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Maine Chemicals of High Concern

Product does not contain any listed chemicals

Vermont Chemicals of High Concern

Product does not contain any listed chemicals

Washington Chemicals of High Concern

Product does not contain any listed chemicals

New Jersey Right To Know

3,3'-iminodi(propylamine)

56-18-8

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

TSCA : All substances listed as active on the TSCA inventory

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16: Other information

The branding on the header and/or footer of this document may temporarily not visually match the product purchased as we transition our branding. However, all of the information in the document regarding the product remains unchanged and matches the product ordered. For further information please contact mlsbranding@sial.com.

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