

SAFETY DATA SHEET

Version 6.6 Revision Date 06.06.2023 Print Date 04.11.2023

SECTION 1: Identification of the hazardous chemical and of the supplier

Product identifiers

Product name : Sodium amide

Product Number 208329 Brand Aldrich CAS-No. 7782-92-5

1.2 Other means of identification

No data available

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

Identified uses : For R&D use only. Not for pharmaceutical, household or other

uses.

Details of the supplier of the safety data sheet

Company : SIGMA-ALDRICH (M) SDN BHD

> Level 3, Menara Sunway Annexe, Jalan Lagoon Timur, Bandar Sunway, 46150 PETALING JAYA, SELANGOR

MALAYSIA

Telephone +60 (603)03-563-53321 +60 (603)03-563-54116 Fax

1.5 **Emergency telephone**

> 1-800-815-308 (CHEMTREC) * + 62 0800 Emergency Phone #

> > 140 1253 (Customer Call Centre)

Section 2: Hazard identification

GHS Classification

Canada

Classification according to CLASS regulations 2013

Substances and mixtures which in contact with water emit flammable gases (Category 2),

Skin corrosion/irritation (Category 1B), H314

Serious eye damage/eye irritation (Category 1), H318

Hazardous to the aquatic environment - chronic hazard (Category 3), H412

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

2.2 GHS Label elements, including precautionary statements

Labelling according to CLASS regulations 2013

Aldrich- 208329 Page 1 of 10

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Signal Word Danger

Hazard statement(s)

H261 In contact with water releases flammable gas.
H314 Causes severe skin burns and eye damage.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statement(s)

Prevention

P223 Keep away from any possible contact with water, because of

violent reaction and possible flash fire.

P231 + P232 Handle under inert gas. Protect from moisture.

P260 Do not breathe dust.

P264 Wash skin thoroughly after handling. P273 Avoid release to the environment.

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

protection.

Response

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P304 + P340 + P310 IF INHALED: Remove victim to fresh air and keep at rest in a

position comfortable for breathing. Immediately call a POISON

CENTER or doctor/ physician.

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 or doctor/

physician.

P335 + P334 Brush off loose particles from skin. Immerse in cool water/ wrap

in wet bandages.

P363 Wash contaminated clothing before reuse.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant

foam for extinction.

Storage

P402 + P404 Store in a dry place. Store in a closed container.

P405 Store locked up.

Disposal

P501 Dispose of contents/ container to an approved waste disposal

plant.

2.3 Other hazards

Reacts violently with water. May form explosive peroxides.

Contact with water liberates toxic gas.

May form explosive peroxides.

SECTION 3: Composition and information of the ingredients of the hazardous chemical

Substance / Mixture : Substance

Aldrich- 208329 Page 2 of 10

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3.1 Substances

Formula : H_2NNa Molecular weight : 39.01 g/mol CAS-No. : 7782-92-5 EC-No. : 231-971-0

Hazardous ingredients

Component	Classification	Concentration
sodium amide		
	Water-react 2; Skin	<= 100 %
	Corr./Irrit. 1B; Eye	
	Dam./Irrit. 1; Aquatic	
	Chronic 3; H261, H314,	
	H318, H412	

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

General advice

First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance.

If inhaled

After inhalation: fresh air. Call in physician.

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.

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

Carbon dioxide (CO2) Dry powder Cover with dry sand or cement.

Aldrich- 208329 Page 3 of 10

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Unsuitable extinguishing media

Foam Water

5.2 Special hazards arising from the substance or mixture

Sodium oxides

Combustible.

May not get in touch with: Water

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

5.3 Advice 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.

5.4 Further information

Suppress (knock down) gases/vapors/mists with a water spray jet. 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

Advice for non-emergency personnel: Avoid inhalation of dusts. 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

Do not let product enter drains. Risk of explosion.

6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

Keep workplace dry. Do not allow product to come into contact with water.

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

Storage conditions

Tightly closed. Keep away from heat and sources of ignition.

Never allow product to get in contact with water during storage.

Air sensitive. Handle and store under inert gas. Test for peroxide formation periodically and before distillation.

Aldrich- 208329 Page 4 of 10

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Storage class

Storage class (TRGS 510): 4.3: Hazardous materials, which set free flammable gases upon contact with water

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 and personal protection

8.1 Control parameters

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls

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

Personal protective equipment

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

Skin protection

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 EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm Break through time: 480 min

Material tested: KCL 741 Dermatril® L

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 EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell,

Internet: www.kcl.de).

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm Break through time: 480 min

Material tested: KCL 741 Dermatril® L

Body Protection

protective clothing

Respiratory protection

required when dusts are generated.

Aldrich- 208329 Page 5 of 10

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.

Control of environmental exposure

Do not let product enter drains. Risk of explosion.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

a) Physical state solid

b) Color light gray

c) Odor No data available

d) Melting Melting point/range: 210 °C - lit.

point/freezing point 400 °C - lit. e) Initial boiling point

and boiling range

Flammability (solid, No data available f) gas)

g) Upper/lower No data available flammability or explosive limits

h) Flash point Not applicable Autoignition No data available i) temperature

No data available j) Decomposition temperature

k) pH No data available

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

m) Water solubility No data available

n) Partition coefficient: Not applicable for inorganic substances n-octanol/water

o) Vapor pressure No data available 1.39 g/cm3 at 20 °C p) Density No data available Relative density q) Relative vapor No data available

No data available r) Particle

density

characteristics

Aldrich- 208329 Page 6 of 10

- s) Explosive properties No data available
- t) Oxidizing properties none

9.2 Other safety information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

Formation of peroxides possible.

The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

Reacts violently with water.

Contact with water liberates toxic gas.

10.2 Chemical stability

sensitive to moisture

Test for peroxide formation before using or discard after 3 months.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

Moisture.

10.5 Incompatible materials

No data available

10.6 Hazardous decomposition products

Peroxides

In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Symptoms: If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the esophagus and the stomach., Nausea, Vomiting, Diarrhea

Symptoms: mucosal irritations, Cough, Shortness of breath, Possible damages:, damage of

respiratory tract

Dermal: No data available

Skin corrosion/irritation

Remarks: Causes severe burns.

The value is given in analogy to the following substances: Lithium amide

Serious eye damage/eye irritation

Remarks: Causes serious eye damage.

Risk of blindness!

The value is given in analogy to the following substances: Lithium amide

Respiratory or skin sensitization

No data available

Aldrich- 208329 Page 7 of 10

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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

11.2 Additional Information

Cough, Shortness of breath, Headache, Nausea, Vomiting

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

Decomposition of the substance with tissue moisture.

Other dangerous properties can not be excluded.

Handle in accordance with good industrial hygiene and safety practice.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish semi-static test LC50 - Danio rerio (zebra fish) - 45 mg/l - 96 h

(OECD Test Guideline 203)

Remarks: The value is given in analogy to the following substances:

Lithium amide

Toxicity to daphnia

and other aquatic

static test EC50 - Daphnia magna (Water flea) - 22 mg/l - 48 h

(OECD Test Guideline 202)

invertebrates Remarks: The value is given in analogy to the following substances:

Lithium amide

Toxicity to algae static test ErC50 - Desmodesmus subspicatus (green algae) - 43

mq/l - 72 h

(OECD Test Guideline 201)

Toxicity to bacteria static test EC50 - activated sludge - 440 mg/l - 3 h

(OECD Test Guideline 209)

Remarks: The value is given in analogy to the following substances:

Lithium amide

Aldrich- 208329 Page 8 of 10

12.2 Persistence and degradability

The methods for determining biodegradability are not applicable to inorganic substances.

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

May be harmful to aquatic organisms due to the shift of the pH.

Harmful effect due to pH shift.

Forms toxic and corrosive mixtures with water even if diluted.

Discharge into the environment must be avoided.

SECTION 13: Disposal information

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. According to Quality Environment Regulation (Scheduled Waste) 2005, waste need to be sent to designated premise for recycle, treatment or disposal. Please contact Kualiti Alam for waste classification and correct disposal method.

SECTION 14: Transportation information

14.1 UN number

ADR/RID: 1390 IMDG: 1390 IATA-DGR: 1390

14.2 UN proper shipping name

ADR/RID: ALKALI METAL AMIDES IMDG: ALKALI METAL AMIDE IATA-DGR: Alkali metal amides

14.3 Transport hazard class(es)

ADR/RID: 4.3 IMDG: 4.3 IATA-DGR: 4.3

14.4 Packaging group

ADR/RID: II IMDG: II IATA-DGR: II

14.5 Environmental hazards

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

14.6 Special precautions for user

None

Aldrich- 208329 Page 9 of 10

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14.7 Incompatible materials

Other regulations

Hazchem Code : 4W

SECTION 15: Regulatory information

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

No data available

SECTION 16: Other information

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

H261	In contact with water releases flammable gas.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.

H412 Harmful to aquatic life with long lasting effects.

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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Aldrich- 208329 Page 10 of 10

