

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



4-AMINO-1,3,5-TRIAZIN-2-ONE

Version 5.1 / REG_EU

Revision Date: 20.08.2019

Specification: 161553

Material no.:

Date of first issue: 31.07.2008

Print Date: 21.08.2019

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

1.1 Product identifier

Trade name : 4-AMINO-1,3,5-TRIAZIN-2-ONE

Registration number : if available listed in Chapter. 3

CAS-No. : 931-86-2

EC-No. : 213-242-9

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

Use of the Sub-
stance/Mixture : Chemical intermediate, Pharmaceutical intermediate

1.3 Details of the supplier of the safety data sheet

Company : AlzChem Trostberg GmbH
Dr.-Albert-Frank-Str. 32
83308 Trostberg, Germany

Telephone : +49 8621 86-3351

E-mail address of person
responsible for the SDS : alz-pst@alzchem.com

1.4 Emergency telephone number

Emergency telephone num-
ber : +49 8621 86-2776
AlzChem Trostberg GmbH, Fire Brigade

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

No labelling required

2.3 Other hazards

A PBT/vPvB evaluation is not available, since a chemical safety evaluation is not required / has not been carried out

Caution - substance not yet tested completely.

This material is an experimental product and the toxicological effects have not been completely investigated. However, it is expected to pose minimal hazards under controlled conditions of handling and use. Please refer to the subsequent sections of the MSDS for further safety precautions.

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SECTION 3: Composition/information on ingredients

3.1 Substances

Substance name : 2-HYDROXY-4-AMINOTRIAZIN

Components

Chemical name	CAS-No. EC-No.	Concentration (% w/w)
4-amino-1,3,5-triazin-2-one	931-86-2 213-242-9	>= 98

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : Seek medical advice in case of symptoms caused by eye or skin contact, inhalation or swallowing.
- If inhaled : See that there is fresh air.
- In case of skin contact : Remove and wash contaminated clothing before re-use.
Wash off with plenty of water and soap.
- In case of eye contact : Rinse thoroughly with plenty of water, also under the eyelids.
- If swallowed : Do NOT induce vomiting.
Clean mouth with water and drink afterwards plenty of water.

4.2 Most important symptoms and effects, both acute and delayed

None known.

4.3 Indication of any immediate medical attention and special treatment needed

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media : Water spray, foam, CO₂, dry powder.
- Unsuitable extinguishing media : high volume water jet

5.2 Special hazards arising from the substance or mixture

- Hazardous combustion products : Nitrogen oxides (NO_x)
Carbon oxides

5.3 Advice for firefighters

- Special protective equipment for firefighters : In the case of fire, wear respiratory protective equipment independent of surrounding air and chemical protective suit.

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Wear personal protective equipment; see section 8.
Avoid dust formation.

6.2 Environmental precautions

Environmental precautions : Product or extinguishing water with product must not be allowed to enter soil, sewers or natural bodies of water.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Use mechanical handling equipment.
Avoid dust formation.
Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Provide appropriate exhaust ventilation at machinery.
Avoid dust formation.

Advice on protection against fire and explosion : Avoid formation of air-dust mixtures and keep away from ignition sources (sparks, flames, open flame) to prevent dust explosions. In use, may form flammable/explosive vapour-air mixture.

Hygiene measures : Do not breathe dust. Avoid contact with skin, eyes, and clothing. Take off clothing and shoes contaminated with product. Clean before reuse. Do not eat, drink or smoke while working. Wash hands, and/or face before breaks and when workday is finished. Keep away from food, drink and animal feedingstuffs.

Dust explosion class : no data available

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep containers tightly closed in a cool, well-ventilated place.

Storage class (TRGS 510) : 13, Non Combustible Solids

7.3 Specific end use(s)

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

No limit value known.

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8.2 Exposure controls

Personal protective equipment

- Eye protection : Safety glasses
- Hand protection
- Material : Nitrile rubber, Recommendation: Camatril 730
 - Break through time : > 480 min
 - Glove thickness : 0,4 mm
 - Directive : DIN EN 374
 - Manufacturer : Kächele-Cama Latex GmbH (KCL), Germany
- Material : Butyl-rubber, Recommendation: Butoject 898
- Break through time : > 480 min
 - Glove thickness : 0,7 mm
 - Directive : DIN EN 374
 - Manufacturer : Kächele-Cama Latex GmbH (KCL), Germany
- Skin and body protection : Protective clothing
- Respiratory protection : In case product dust is released:
Dust protection mask in accordance with EN 149 FFP2

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Appearance : powder
- Colour : colourless
- Odour : odourless
- pH : 5,9 (28 °C)
Concentration: 0,7 g/l
- Melting point/range : > 350 °C
- Upper explosion limit / upper flammability limit : no data available
- Lower explosion limit / Lower flammability limit : no data available
- Vapour pressure : no data available
- Solubility(ies)
- Water solubility : 0,73 g/l (28 °C)
- Auto-ignition temperature : > 650 °C
Method: DIN 51 794
- Decomposition temperature : ca. 350 °C
- Explosive properties : no data available

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9.2 Other information

Molecular weight : 112,09 g/mol
Dust explosion class : no data available

SECTION 10: Stability and reactivity

10.1 Reactivity

|| See section 10.3

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : None known.

10.4 Conditions to avoid

Conditions to avoid : Keep away from sources of heat, flames and sparks.

10.5 Incompatible materials

Materials to avoid : Strong oxidizing agents

10.6 Hazardous decomposition products

|| Hazardous decomposition products formed under fire conditions.
see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product:

Acute oral toxicity : Remarks: No harmful effects have become known as yet.
Acute inhalation toxicity : Remarks: No harmful effects have become known as yet.
Acute dermal toxicity : Remarks: No harmful effects have become known as yet.

Components:

4-amino-1,3,5-triazin-2-one:

Acute oral toxicity : LD50 (rat): > 3000 mg/kg
Remarks: The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy).
(literature value)

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Skin corrosion/irritation

Components:

4-amino-1,3,5-triazin-2-one:

Species : Rabbit
Result : not irritating
Remarks : The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy). (literature value)

Serious eye damage/eye irritation

Components:

4-amino-1,3,5-triazin-2-one:

Species : Rabbit
Result : not irritating
Remarks : The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy). (literature value)

Further information

Product:

Remarks : The toxicological data on this product have not been determined experimentally.
Other dangerous properties can not be excluded.

SECTION 12: Ecological information

12.1 Toxicity

Components:

4-amino-1,3,5-triazin-2-one:

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna): > 1000 mg/l
Exposure time: 48 h
Remarks: The ecological data given was inferred through conclusion by analogy. (literature value)

12.2 Persistence and degradability

Components:

4-amino-1,3,5-triazin-2-one:

Biodegradability : Inoculum: activated sludge
Result: Readily biodegradable
Remarks: The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy). (literature value)

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12.3 Bioaccumulative potential

Components:

4-amino-1,3,5-triazin-2-one:

Bioaccumulation : Remarks: Significant bioaccumulation need not be expected. The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy). (literature value)

12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : A PBT/vPvB evaluation is not available, since a chemical safety evaluation is not required / has not been carried out.

12.6 Other adverse effects

Product:

Additional ecological information : No ecotoxicological studies with the product available. Avoid release to the environment.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Must be brought to an adequate waste treatment facility, in conformity with applicable waste disposal regulations.

Contaminated packaging : Packaging, that can not be reused after cleaning must be disposed or recycled in accordance with all federal, national and local regulations.

SECTION 14: Transport information

14.1 UN number

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Remarks : Not classified as dangerous in the meaning of transport regulations.

ADR : Not regulated as a dangerous good

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Remarks : Not classified as dangerous in the meaning of transport regulations.

RID : Not regulated as a dangerous good
Remarks : Not classified as dangerous in the meaning of transport regulations.

IMDG : Not regulated as a dangerous good
Remarks : Not classified as dangerous in the meaning of transport regulations.

IATA (Cargo) : Not regulated as a dangerous good
Remarks : Not classified as dangerous in the meaning of transport regulations.

IATA_P (Passenger) : Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Remarks : Not classified as dangerous in the meaning of transport regulations.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

15.2 Chemical safety assessment

No substance safety assessment is required for this product (<10t).

SECTION 16: Other information

Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; 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 Equip-

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ment 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 Co-operation 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; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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