

Safety Data Sheet

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)



Revision date 12.07.2019

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Version 1

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

1.1 Product identifier

1.2 Relevant identified uses of the substance or mixture and uses advised against TK.930112

Generic name Aluminium Nitrate Nonahydrate ACS Grade

REACH No.

CAS No. 7784-27-2

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

Relevant identified uses Use as laboratory reagent.

Use of the substance / mixture

Uses advised against

Details of the supplier of the safety data sheet

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SECTION 2: Hazards identification

Classification of the substance or mixture

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

Eye Dam. 1

Full text of R-, H- and EUH-phrases: see section 16.

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2.2 Label elements

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

Hazard pictograms



Signal word

Hazard Statements

H318 Causes serious eye damage.

Precautionary Statements

Prevention

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

Response

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Storage

2.3 Other hazards

SECTION 3: Composition/information on ingredients

Substances

Formula $\text{Al}(\text{NO}_2)_2 \cdot 9 \text{H}_2\text{O}$ $\text{Al}(\text{NO}_2)_2 \cdot 9 \text{H}_2\text{O}$ (Hill)

EC No. 236-751-8

Molar mass 375,13 g/mol

<u>Characteristic</u>	<u>CAS No</u>	<u>EC No</u>	<u>Concentration</u>	<u>Classification</u>
Aluminium Nitrate Nonahydrate ACS Grade	7784-27-2	236-751-8		;4:H318

Full text of R-, H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

Description of first aid measures

General information	In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible)..
Following inhalation	Remove casualty to fresh air and keep warm and at rest..
Following skin contact	Subsequently wash off with:.
Following eye contact	In case of contact with eyes, rinse immediately thoroughly with plenty of edible oil and consult an ophthalmologist..
Following ingestion	Please give up to two glasses of water. Get immediate medical attention..

Most important symptoms and effects, both acute and delayed

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Impaired consciousness. . Vomiting. Cough. Nausea.

Indication of any immediate medical attention and special treatment needed

No information available..

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use extinguishing measures appropriate to the environment..

Unsuitable extinguishing media

Water spray jet.

5.2 Special hazards arising from the substance or mixture

In case of fire may be liberated:.. Nitrogen oxide. not flammable.. Ambient fire may liberate hazardous vapors..

5.3 Advice for firefighters

Special protective equipment for firefighters

In case of fire: Wear self-contained breathing apparatus..

5.4 Additional information

Stop and contain spill/release if it can be done safely. If this cannot be done, allow fire to burn under control..

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Don't breathe dust.Avoid substance contact. Keep away from head and source of ignition. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures,consult an expert..

6.2 Environmental precautions

Do not allow to enter into surface water or drains..

6.3 Methods and material for containment and cleaning up

Close drainage channels.Take up with liquid-absorbent material.Clean the affected area.

6.4 Reference to other sections

Disposal: see section 13.

6.5 Additional information

Clear spills immediately..

SECTION 7: Handling and Storage

7.1 Precautions for safe handling

Advices on safe handling

Observe label precautions.

Measures to prevent fire

Advices on general occupational hygiene

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7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

7.3 Specific end uses

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values

8.2 Exposure controls

Appropriate engineering controls

Fresh air (open windows and doors) is necessary..

Personal protection equipment

Eye/face protection

Güvenlik gözlükleri

Hand protection

Full contact

Glove material : Nitrile rubber

Glove thickness :0,11 mm

Break through time : >480 minute

Splash contact :

Glove material : Nitrile rubber

Glove thickness :0,11 mm

Break through time : >480 minute

The protective gloves to be used must comply with the specifica

Other skin protection

Protective chlothing

Respiratory protection

Required when dusts are generated

Recommended filter type :

Filter P 2 for solid and liquid particles of harmful elements (according to DIN 3181)

Environmental exposure controls

See section 7. Additional information on plant design:.. See section 7. Additional information about obligations under the common European environment protection regulations:..

SECTION 9: Physical and chemical Properties

Information on basic physical and chemical properties

Physical state	Solid
Colour	colourless
Odour	characteristic
Odour threshold	no information

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pH value	2,0 - 4,0 50 g/l 20 °C
Melting point/freezing point	73 °C
Freezing point	no information
Initial boiling point and boiling range	135 °C
Flash point	noninflammable
Evaporation rate	no information
Flammability (solid, gas)	no information °C
Upper/lower flammability or explosive limits	does not apply
Upper/lower flammability or explosive limits	does not apply
Vapour pressure	no information
Vapour density	no information
Density	1,72 g/cm ³ 20 °C
Relative density	no information
Water solubility (g/l)	41,9 g/l at 20 °C °C
Fat solubility (g/l)	no information °C
Partition coefficient: n-octanol/water	no information
Auto-ignition temperature	no information
Decomposition temperature	135 °C

Viscosity

Kinematic viscosity	no information
Dynamic viscosity	no information
Explosive properties	Not classified as explosive.
Oxidising properties	As oxidizing agent or mixture

SECTION 10: Stability and Reactivity

10.1 Reactivity

Section 10.3 to see.

10.2 Chemical stability

The product is stable under storage at normal ambient temperatures..

10.3 Possibility of hazardous reactions

There is a risk of explosion with:
Reducing compounds, Cyanides, Esters, Strong acids, Isocyanates, Powder form metals, sulfur

10.4 Conditions to avoid

..

10.5 Incompatible materials

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Various metals.

10.6 Hazardous decomposition products

No known hazardous decomposition products..

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute oral toxicity
No information

Skin irritation
Not irritation

Eye irritation
Not irritation

11.2 Additional information

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 (zebrafish):> 0,105 mg / l; 96 h
Analytical observation: yes
OECD Test Guideline 203
(above the solubility limit in the test medium) Value analogy to the following substances
given as: aluminum sulfate tetradecahydrate

12.2 Persistence and degradability

Biodegradation
Methods for measuring biological degradation for inorganic substances
not applicable.

12.3 Bioaccumulative potential

No information

12.4 Mobility in soil

No information

12.5 Results of PBT and vPvB assessment

Substance does not meet the criteria for PBT or vPvB

12.6 Other adverse effects

Çevreye atılması engellenmelidir.

SECTION 13: Disposal considerations

Waste treatment methods

It must be disposed of in accordance with national and local regulations. Do not mix with other products. It was to proceed as their products uncleaned packaging. Atık Maddeler.

SECTION 14: Transport information

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Generic name

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Land transport (ADR/RID)

UN number UN 1438
UN proper shipping name ALUMINIUM NITRATE
Transport hazard class(es) 5.1
Packing group III
Environmental hazards --
Special precautions for yes
Tunnel restriction code E

Inland waterway transport (ADN)

Limited quantity (LQ)

Special Provisions

Category

Air transport (ICAO-TI / IATA-DGR)

UN number UN 1438
UN proper shipping name ALUMINIUM NITRATE
Transport hazard class(es) 5.1
Packing group III
Environmental hazards --
Special precautions for no

Sea transport (IMDG)

UN number UN 1438
UN proper shipping name ALUMINIUM NITRATE
Transport hazard class(es) 5.1
Packing group III
Environmental hazards yes
Special precautions for yes

SECTION 15: Regulatory information

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

Storage class : 5.1B

Chemical Safety Assessment

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SECTION 16: Other information

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P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Prepared the Document

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