

Safety Data sheet

According to Directive 1907/2006

0169 ALUMINIUM NITRATE 9-HYDRATE

Creation Date: 01/12/2010 Revision date: 31/05/2017

1. Identification of the substance/preparation and of the company/undertaking

Identification of the product

Catalogue No: 0169 Product name: ALUMINIUM NITRATE 9-HYDRATE Use of the substance: Analysis and chemical-pharmaceutical production

Company/undertaking identification

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2. Hazards identification

Labelling in accordance with directive 1907/2006



R-phrases

8 Contact with combustible material may cause fire.
36/38 Irritating to eyes and skin.

S-phrases

17 Keep away from combustible material.

Labelling in accordance with directive 1272/2008



H-phrases

272 May intensify fire; oxidiser.
319 Causes serious eye irritation.
315 Causes skin irritation.

P-phrases

210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
309+311 IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.
305+351 If in eyes: Rinse cautiously with water for several minutes.
338 Remove contact lenses, if present and easy to do. Continue rinsing.

Signal word : WARNING

OXIDIZING; IRRITANT

R-phrases:

Contact with combustible material may cause fire.
Irritating to eyes and skin.

3.Composition/information on ingredients

For the full text of the R phrases mentioned in this section, see Section 16.

CAS-No.: 7784-27-2

Molecular Weight: 375,13

Chemical formula: $\text{Al}(\text{NO}_3)_3 \cdot 9\text{H}_2\text{O}$

EC-No.: 236-751-8

R-phrases 8; 36/38

For more information about the R-Phrases text you can consult the paragraph 16

4.First aid measures

After inhalation:

Fresh air

After skin contact:

Rinse with abundant water (or have a shower)

Get rid of the contaminated clothes

After eye contact:

Rinse with abundant water, keeping eyelids open (at least 10 min)

Call the ophthalmologist

After swallowing:

Drink lots of water

Call the doctor

5.Fire-fighting measures

Suitable extinguishing media:

Adapt the materials of the surroundings

Special risks:

Fireproof

Fire promoting

Keep away from combustibles materials

Ambient fire may liberate hazardous vapours

In case of fire, nitrous gases can be formed

Special protective equipment for fire fighting:

Remain in the risk area only if provided with independent artificial respiratory systems.

In order to avoid contact with skin, keep a safety distance and wear suitable protective clothing.

Wear suitable protective clothing

Other information:

Precipitate emergent steam with water

Avoid the penetration of the extinction water in superficial or subterraneous aquifers.

6. Accidental release measures

Person-related precautionary measures:

Do not inhale dust

Avoid contact with the substance

Ventilation in closed spaces

Procedures for cleaning/absorption:

Dry cleaning. Proceed to the elimination of any waste.

Rinse.

To avoid the inert dust formation

Environmental protection measures:

Do not send it to the sewerage system

7. Handling and storage

Handling: Without other exigencies

Storage:

Well closed

Moved away of inflammable substances, sources of ignition and heat

Dry place.

Storage temperature: without limits

8. Exposure controls/personal protection

Exposure limit control

TLV-TWA: 2 ppm (as Al)

Personal protective equipment:

Respiratory protection:

Necessary respiratory protection in the presence of dust

Hand protection:

Protection gloves:

Nitrile rubber

Eye protection:

Needed

Skin and body protection:

Suitable protective clothing

Other protective equipment:

Change immediately contaminated clothes

Recommendable preventive protection of the skin

Wash hands and face when the work is finished

Fulfill the commitments under local environmental protection legislation

9. Physical and chemical properties

Physical state: Solid
Colour: Colourless to white
Odour: Sour
pH value: 2.0-4.0 (5% in water)
Melting point: 73°C
Boiling point: 135°C
Solubility: water 419 g/l

10. Stability and reactivity

Substances to be avoided:

Reducing agents.
Cyanides.
Esters.
Metals in powder form.
Strong acids.
Isocyanates

Hazardous decomposition products:

Nitrous gases.
Aluminum oxide.

Further information:

Incompatible with various metals and metal alloys.

11. Toxicological information

Acute toxicity:

LD50 (oral, rat): 3671 mg/kg

After eye contact:

Irritation

After skin contact:

Irritations

After inhalation:

Irritations of the mucous membranes
Coughing
Absorption

After long contact:

Due to absorption:
Metahemoglobinemia
CNS disorders

After swallowing:

Nausea
Vomiting
Absorption

Further toxicological information:

Other dangerous characteristics are not discarded
Take the usual precautions for handling chemical products

12. Ecological information

No information available

Fishes: Toxic from 0.55 mg/l (Al)

Daphnia: Toxic from 136 mg/l (Al)

Algae: Scenedesmus quadricauda: toxic from 1.5 mg/l (Al)

Other harmful effects:

Hazard for drinking water supplies

May contribute to the eutrophication of water supplies

13. Disposal considerations

Product:

Dispose as regulated in the community countries by local regulations.

Please contact with the suitable authority in each case (Public Administration or company specialized in

Packaging:

Product packaging disposal must be disposed of in compliance with the respective local regulations. For contaminated packaging the same measures must be adopted as for the contaminated product. Not contaminated packaging must be disposed of as domestic residues or recycled material. European Directive 94/62/EC of 20 December 1994 on packaging and packaging waste

14. Transport information

Overland transport ADR/RID

UN: 1438
Class: 5.1
Packaging group: III
Correct technical name: ALUMINIUM NITRATE

Sea transport IMDG

UN: 1438
Class: 5.1/III
Packaging group: III
Correct technical name: ALUMINIUM NITRATE

Air transport ICAO-IATA-DGR

UN: 1438
Class: 5.1
Packaging group: III
Correct technical name: ALUMINIUM NITRATE
CAO: 563
PAX: 559

15. Regulatory information

16. Other information

Full text of R phrases mentioned in sections 2 and 3

8 Contact with combustible material may cause fire.

36/38 Irritating to eyes and skin.

The information contained herein is based on the present state of our knowledge.

It characterizes the product with regard to appropriate safety precautions. It does not represent a guaranty of the properties of the product.