

MATERIAL SAFETY DATA SHEET**Product Name:** Aluminum nitrate nonahydrate**CAS No.:** 7784-27-2**Version:** 0**1. Identification**

Product Code : 90309
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2. Hazards Identification

Hazard classification
eye damage : Category 1

Label elements
Hazard symbol



Signal word : Danger
Hazard statement : Causes serious eye damage.
Precautionary statement : Wear eye protection/ face protection.
IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a POISON CENTER or doctor/ physician.
Supplemental Hazard Statements : None.

3. Composition/information on ingredients

Ingredient	CAS No	Percent
Aluminum nitrate nonahydrate	7784-27-2	98.0%

MATERIAL SAFETY DATA SHEET**Product Name:** Aluminum nitrate nonahydrate**CAS No.:** 7784-27-2**Version:** 0**4. First Aid Measures****Description of first aid measures****General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance.

Inhalation

: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

Skin contact

: Wash off with soap and plenty of water. Consult a physician.

Eye contact

: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Swallowed

: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Most important symptoms and effects, both acute and delayed

: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11

Indication of any immediate medical attention and special treatment needed Treatment

: No data available

5. Fire fighting measures**Extinguishing media****Suitable extinguishing media**

: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture: Nitrogen oxides (NO_x), Aluminum oxide**Advice for firefighters**

: Wear self contained breathing apparatus for fire fighting if necessary

Further information

: No data available

6. Accidental Release Measures**Personal precautions, protective equipment and emergency procedures**

: Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Avoid breathing dust.

Environmental precautions

: Do not let product enter drains.

Methods and materials for containment and cleaning up

: Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

Reference to other sections

: For disposal see section 13.

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- Precautions for safe handling** : Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
- Conditions for safe storage, including any incompatibilities** : Store in cool place. Keep container tightly closed in a dry and well-ventilated place.
- Specific end use(s)** : No data available

8. Exposure Controls Personal Protection**Control parameters****Components with workplace control parameters****Exposure controls**

Appropriate engineering controls : Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection : Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin Protection Hand 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.

Body Protection : Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace..

Respiratory protection : Respiratory protection is required.

9. Physical and Chemical Properties

- Appearance** : Colourless crystals.
- Odor** : No data available
- pH** : 2.5 – 3.5 at 50 g/l at 25 °C
- Melting point/freezing point** : 73 °C - lit.
- Initial boiling point and boiling range** : No data available
- Flash Point** : No data available
- Vapor pressure** : No data available
- Vapor density** : No data available
- Relative density** : No data available

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Solubility in water : No data available
Solubility (other) : No data available
Formula : $\text{Al}(\text{NO}_3)_3 \cdot 9\text{H}_2\text{O}$
Molecular Weight : 375.13/mol

10. Stability and Reactivity

Reactivity : No data available
Chemical stability : Stable under recommended storage conditions.
Possibility of hazardous reactions : Reacts violently with water.
Conditions to avoid : Strong reducing agents, Powdered metals, Strong acids
Incompatible materials : Strong reducing agents, Powdered metals, Strong acids
Hazardous decomposition products : No data available

11. Toxicological Information**Information on toxicological effects**

Acute toxicity : LD50 Oral - Rat - 3.671 mg/kg
Skin corrosion/irritation : No data available
Serious eye damage/eye irritation : Severe eye irritation
Respiratory or skin sensitization : No data available
Germ cell mutagenicity : No data available
Carcinogenicity : No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity : Reproductive toxicity - Rat - Oral
Effects on Newborn: Physical.
Developmental Toxicity - Rat - Oral
Effects on Embryo or Fetus: Fetotoxicity (except death, e.g. stunted fetus). Effects on Embryo or Fetus:
Fetal death. Specific Developmental Abnormalities: Craniofacial (including nose and tongue).
Developmental Toxicity - Rat - Oral
Specific Developmental Abnormalities: Musculoskeletal system.
Developmental Toxicity - Rat - Oral
Specific Developmental Abnormalities: Cardiovascular (circulatory) system.
Specific target organ toxicity - single exposure : No data available
Specific target organ toxicity - repeated exposure : No data available

MATERIAL SAFETY DATA SHEET**Product Name:** Aluminum nitrate nonahydrate**CAS No.:** 7784-27-2**Version:** 0**repeated exposure****Aspiration hazard****Signs and Symptoms of Exposure**

- : No data available
- : To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. Ecological Information**Toxicity****Persistence and degradability****Bioaccumulative potential****Mobility in soil****Other adverse effects**

- : No data available
- : No data available.
- : No data available.
- : No data available.
- : No data available.

13. Disposal consideration**Disposal instructions****Contaminated packaging**

- : Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.
- : Dispose of as unused product.

14. Transport Information

	UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
DOT			Not dangerous goods		
IMDG			Not dangerous goods		
IATA			Not dangerous goods		

15. Regulatory Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance or mixture
No Data Available.

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