

SAFETY DATA SHEET

Creation Date 05-Oct-2010

Revision Date 04-Jul-2019

Revision Number 4

	1. Identification
Product Name	Aluminium nitrate nonahydrate
Cat No. :	A586-3; A586-10; A586-250; A586-500
CAS-No Synonyms	7784-27-2 Nitric acid aluminum salt nonahydrate (Crystalline/Certified ACS)
Recommended Use	Laboratory chemicals.

Food, drug, pesticide or biocidal product us=

Recommended Use Uses advised against



Precautionary Statements Prevention

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

Eyes

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

Hazards not otherwise classified (HNOC)

None identified

3. Composition/Information on Ingredients

Component	CAS-No	Weight %
Aluminium nitrate nonahydrate	7784-27-2	100
Aluminum nitrate	13473-90-0	-

4. First-aid measures	
General Advice	If symptoms persist, call a physician.
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.
Inhalation	Move to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.
Ingestion	Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.
Most important symptoms and effects	Causes eye burns. Causes severe eye damage.
Notes to Physician	Treat symptomatically
	5. Fire-fighting measures
Suitable Extinguishing Media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable Extinguishing Media	No information available
Flash Point Method -	No information available No information available
Autoignition Temperature Explosion Limits Upper Lower Oxidizing Properties	No data available No data available Oxidizer

Sensitivity to Mechanical Impact No information available Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical

May ignite combustibles (wood paper, oil, clothing, etc.). Oxidizer: Contact with combustible/organic material may cause fire.

Hazardous Combustion Products

Nitrogen oxides (NOx)

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA Health 2	Flammability 0	Instability 1	Physical hazards OX
	6. Accidental rele	ase measures	
Personal Precautions Environmental Precautions	Ensure adequate ventilation. Should not be released into t information.		ipment. Avoid dust formation. 12 for additional ecological
Methods for Containment and Clea Up		r disposal. Soak up with iner	ontainer for disposal. Keep in t absorbent material. Sweep up
	7. Handling ar	nd storage	
Handling		clothing. Avoid ingestion an	ntilation. Avoid dust formation. Do d inhalation. Keep away from
Storage	Keep containers tightly close combustible materials. Store		ilated place. Do not store near Protect from moisture.
8. E	xposure controls /	personal protection	on
Exposure Guidelines			

Component

EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Hygiene Measures

9. Physical and chemical propertie

Physical State
Appearance
Odor
Odor Threshold
рН
Melting Point/Range
Boiling Point/Range
Flash Point
Evaporation Rate
Flammability (solid,gas)
Flammability or explosive limits
Upper
Lower
Vapor Pressure
Vapor Density
Specific Gravity
Solubility
Partition coefficient; n-octanol/water
Autoignition Temperature
Decomposition Temperature
Viscosity
Molecular Formula
Molecular Weight

Solid Clear Odorless No information available 2.5-3.5 5% aq.sol 73 °C / 163.4 °F No information available No information available Not applicable No information available

No data available No data available No information available Not applicable No information available 64 g/100ml (25°C) No data available

135 °C Not applicable Al N3 O9 . 9 H2 O 375.13

	10. Stability and reactivity
Reactive Hazard	None known, based on information available Yes
Stability	Oxidizer: Contact with combustible/organic material may cause fire. Hygroscopic.
Conditions to Avoid	Incompatible products. Excess heat. Combustible material. Avoid dust formation. Exposure to moist air or water.
Incompatible Materials	Strong oxidizing agents, Bases, Combustible material, Reducing agents, Acids, Heavy metals, Cyanides, Powdered metals, Strong reducing agents
Hazardous Decomposition Products Nitrogen oxides (NOx)	
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.
A suite Taulaite	11. Toxicological information

Acute Toxicity

Product Information Component Information	
Component	LD50 Oral
Aluminium nitrate nonahydrate	LD50 = 3671 mg/kg (Rat)
Aluminum nitrate	2060 mg/kg (Rat)
	204 mg/kg (Al) (Rat)
Toxicologically Synergistic	No information available

LD50 Dermal Not listed

Not listed

LC50 Inhalation Not listed

Not listed

Products Delayed and immediate effects as well as c

Active/Inactive

Flags

	16. Other information
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
Creation Date Revision Date Print Date Revision Summary	05-Oct-2010 04-Jul-2019 04-Jul-2019 This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

Disclaimer

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End of SDS