

## SAFETY DATA SHEET

Preparation Date: 3/1/2019

Revision date 3/1/2019

Revision Number: G1

### 1. IDENTIFICATION

#### Product identifier

**Product code:** A1990  
**Product Name:** ALUMINUM NITRATE, NONAHYDRATE, CRYSTAL, TECHNICAL

#### Other means of identification

**Synonyms:** Aluminum trinitrate nonahydrate  
 Nitric acid, Aluminum salt, nonahydrate  
**CAS #:** 7784-27-2  
**RTECS #** BD1050000  
**CI#:** Not available

#### Recommended use of the chemical and restrictions on use

**Recommended use:** Petroleum Production and Refining. Laboratory reagent. Research and Development.

**Uses advised against** No information available

**Supplier:** Spectrum Chemical Mfg. Corp  
 14422 South San Pedro St.  
 Gardena, CA 90248  
 (310) 516-8000

**Order Online At:** <https://www.spectrumchemical.com>

**Emergency telephone number** Chemtrec 1-800-424-9300

**Contact Person:** Tom Tyner (USA - West Coast)

**Contact Person:** Ibad Tirmiz (USA - East Coast)

### 2. HAZARDS IDENTIFICATION

#### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Oxidizing solids	Category 3

#### Label elements

##### **Warning**

##### **Hazard statements**

Causes skin irritation  
 Causes serious eye irritation  
 May intensify fire; oxidizer

**Product code:** A1990

**Product name:** ALUMINUM NITRATE,  
 NONAHYDRATE, CRYSTAL,  
 TECHNICAL

**Page**



**Hazards not otherwise classified (HNOC)**

Not Applicable

**Other hazards**

May be harmful if swallowed

**Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling  
Keep away from heat/sparks/open flames/hot surfaces. — No smoking  
Keep/Store away from clothing and other combustible materials  
Take any precaution to avoid mixing with combustibles  
Wear protective gloves

**Precautionary Statements - Response**

IN CASE OF FIRE: Use water to extinguish. Do not use dry chemicals or foams. CO2 or Halon may provide limited control.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

IF ON SKIN: Wash with plenty of water

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash it before reuse

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Component	CAS No	Weight-%
Aluminum Nitrate, Nonahydrate	7784-27-2	100

**4. FIRST AID MEASURES**

**First aid measures**

**General Advice:** National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222.

**Skin Contact:** Wash off immediately with soap and plenty of water removing all contaminated clothing and shoes. Get medical attention. If skin irritation persists, call a physician.

**Eye Contact:** Flush eyes with water for 15 minutes. Get medical attention. If symptoms persist, call a physician.

**Inhalation:** Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**Ingestion:** Do not induce vomiting without medical advice. Never give anything by mouth to an

**Product code:** A1990

**Product name:** ALUMINUM NITRATE,  
NONAHYDRATE, CRYSTAL,  
TECHNICAL

**Page**

unconscious person. Consult a physician if necessary.

**Most important symptoms and effects, both acute and delayed**

<b>Symptoms</b>	Causes skin irritation Causes eye irritation May cause coughing and shortness of breath Somnolence It may affect metabolism Weight loss/gain May cause methemoglobinemia and cyanosis May cause digestive (gastrointestinal) tract irritation May cause nausea and vomiting Ataxia Headache Weakness May cause drowsiness or dizziness Convulsions Fatigue Irregular heartbeat Weak, rapid pulse or rapid heart rate (Tachycardia) Seizures Coma Sweating and flushing of skin Visual disturbances It may affect the kidneys It may affect the blood Central nervous system effects
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**Indication of any immediate medical attention and special treatment needed**

**Notes to Physician:** Treat symptomatically.

**Protection of first-aiders**

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

**5. FIRE-FIGHTING MEASURES**

**Extinguishing Media**

**Suitable Extinguishing Media:** Water. CO2 may be of no value in extinguishing fires involving oxidizers and may only provide limited control.

**Unsuitable Extinguishing Media:** Dry chemical. Foam. Halons.

**Specific hazards arising from the chemical**

**Hazardous combustion products** If it is involved in a fire the following can be released:  
Nitrogen oxides (NOx). Aluminum oxides.

**Specific hazards** Oxidizer. Keep away from combustible materials (wood, paper, oil, clothing, etc.). The product is not flammable, but it may cause fire when in contact with other material. Contact with combustible or organic materials may cause fire. Will accelerate burning when involved in a fire. Container explosion may occur under fire conditions or when heated.

**Special Protective Actions for Firefighters**

**Product code:** A1990

**Product name:** ALUMINUM NITRATE,  
NONAHYDRATE, CRYSTAL,  
TECHNICAL

**Page**

**Specific Methods:**

No information available

**Special Protective Equipment for Firefighters:**

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

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

**Personal Precautions:**

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid dust formation. Keep combustibles (wood, paper, oil, clothing, etc.) away from spilled material. Remove all sources of ignition.

**Environmental precautions**

Prevent further leakage or spillage if safe to do so. Prevent entry into waterways, sewers, basements or confined areas. Prevent product from entering drains. Do not let product enter drains.

### Methods and material for containment and cleaning up

**Methods for containment**

Stop leak if you can do it without risk. Cover with plastic sheet to prevent spreading.

**Methods for cleaning up**

Sweep up and shovel. Use appropriate tools to put the spilled material in a suitable chemical waste disposal container. Do not use combustible materials such as paper towels, sawdust, clothing, etc. to clean up spill. Clean contaminated surface thoroughly.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Technical Measures/Precautions:**

Provide sufficient air exchange and/or exhaust in work rooms. Avoid dust formation. Keep away from incompatible materials.

**Safe Handling Advice**

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Use only in well-ventilated areas. Do not ingest. Do not breathe dust. When using do not smoke. Keep away from combustible material. Handle in accordance with good industrial hygiene and safety practice.

### Conditions for safe storage, including any incompatibilities

**Technical Measures/Storage Conditions:**

Keep container tightly closed in a dry and well-ventilated place. Do not store near combustible materials. Store at room temperature in the original container. Store away from incompatible materials. Store in a segregated and approved area.

**Incompatible Materials:**

Reducing agents  
Powdered metals  
Organic materials  
Combustible materials

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Product code:** A1990

**Product name:** ALUMINUM NITRATE,  
NONAHYDRATE, CRYSTAL,  
TECHNICAL

**Page**

## Control parameters

### National occupational exposure limits

#### United States

Component	CAS No	OSHA	NIOSH	ACGIH	AIHA WEEL
Aluminum Nitrate, Nonahydrate	7784-27-2	None	None	None	None

#### Canada

Component	CAS No	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Aluminum Nitrate, Nonahydrate	7784-27-2	2 mg/m <sup>3</sup> TWA(as Al)	None	None	2 mg/m <sup>3</sup> TWAEV(as Al)

#### Australia and Mexico

Component	CAS No	Australia	Mexico
Aluminum Nitrate, Nonahydrate	7784-27-2	None	None

### Appropriate engineering controls

#### Engineering measures to reduce exposure:

Ensure adequate ventilation, especially in confined areas. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

### Individual protection measures, such as personal protective equipment

#### Personal Protective Equipment

**Eye protection:** Goggles or Safety glasses with side-shields.

**Skin and body protection:** Chemical resistant protective suit  
Gloves  
Long sleeved clothing

**Respiratory protection:** Effective dust mask. or. Wear respirator with dust filter. Be sure to use an approved/certified respirator or equivalent.

**Hygiene measures:** Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical state:**

Solid

**Appearance:**

Crystals.

**Color:**

White.

**Odor:**

Odorless.

**Taste**

No information available.

**Formula**

Al(NO<sub>3</sub>)<sub>3</sub>.9H<sub>2</sub>O

**Product code:** A1990

**Product name:** ALUMINUM NITRATE,  
NONAHYDRATE, CRYSTAL,  
TECHNICAL

**Page**

<b>Molecular/Formula weight (g/mole):</b> 375.13 g/mol	<b>Flammability (solid, gas)</b> no data available	<b>Flashpoint (°C/°F):</b> No information available
<b>Flash Point Tested according to:</b> Not available	<b>Autoignition Temperature (°C/°F):</b> No information available	<b>Lower Explosion Limit (%):</b> No information available
<b>Upper Explosion Limit (%):</b> No information available	<b>Melting point/range(°C/°F):</b> 73°C/163°F	<b>Decomposition temperature(°C/°F):</b> 135°C/275°F
<b>Boiling point/range(°C/°F):</b> No information available	<b>Bulk density:</b> No information available	<b>Density (g/cm3):</b> No information available
<b>Specific gravity:</b> No information available	<b>pH</b> 2.5-3.5 (5%)	<b>Vapor pressure @ 20°C (kPa):</b> No information available
<b>Evaporation rate:</b> No information available	<b>Vapor density:</b> No information available	<b>VOC content (g/L):</b> No information available
<b>Odor threshold (ppm):</b> No information available	<b>Partition coefficient (n-octanol/water):</b> No information available	<b>Viscosity:</b> No information available
<b>Miscibility:</b> No information available	<b>Solubility:</b> Very soluble in water Very soluble in alcohol Very slightly soluble in Acetone Practically insoluble in Ethyl Acetate Practically insoluble in pyridine	

## 10. STABILITY AND REACTIVITY

### Reactivity

Oxidizer. Reacts with reducing agents, organic material, combustible materials, and powdered metals

### Chemical stability

**Stability:** Stable under recommended storage conditions.

**Possibility of Hazardous Reactions:** Hazardous polymerization does not occur

**Conditions to avoid:** Avoid dust formation. Heat. Incompatible materials.

**Incompatible Materials:** Reducing agents  
Powdered metals  
Organic materials  
Combustible materials

**Hazardous decomposition products:** Aluminum oxide. Nitrogen oxides (NOx).

### Other Information

**Corrosivity:** No information available

**Special Remarks on Corrosivity:** No information available

## 11. TOXICOLOGICAL INFORMATION

**Product code:** A1990

**Product name:** ALUMINUM NITRATE,  
NONAHYDRATE, CRYSTAL,  
TECHNICAL

**Page**

## Information on likely routes of exposure

### Principal Routes of Exposure:

Ingestion. Inhalation. Skin.

## Acute Toxicity

### Component Information

Aluminum Nitrate, Nonahydrate	
CAS No	7784-27-2

**LD50/oral/rat** = 3671 mg/kg Oral LD50 Rat  
**LD50/oral/mouse** = 3980 mg/kg oral LD50 mouse  
**LD50/dermal/rabbit** = No information available  
**LD50/dermal/rat** = No information available  
**LC50/inhalation/rat** = No information available  
**LC50/inhalation/mouse** = No information available  
**Other LD50 or LC50 information** = No information available

### Product Information

**LD50/oral/rat** =  
**Value - Acute Tox** = No information available

**LD50/oral/mouse** =  
**Value - Acute Tox Oral** = No information available

**LD50/dermal/rabbit**  
**Value - Acute Tox** = No information available

**LD50/dermal/rat**  
**VALUE - Acute Tox Dermal** = No information available

**LC50/inhalation/rat**  
**VALUE-Vapor** = No information available  
**VALUE-Gas** = No information available  
**VALUE-Dust/Mist** = No information available

**LC50/Inhalation/mouse**  
**VALUE-Vapor** = No information available  
**VALUE - Gas** = No information available  
**VALUE - Dust/Mist** = No information available

## Symptoms

**Skin Contact:** Causes skin irritation. Skin contact may result in redness, pain, inflammation, itching, scaling, and/or blistering.

**Eye Contact:** Causes eye irritation. Symptoms may include stinging, tearing, redness.

**Inhalation** May cause respiratory tract irritation. Symptoms may include coughing and shortness of breath.

**Ingestion** Can cause nausea, vomiting, hypermotility, diarrhea. It produces flushing of the face, mild decrease of blood pressure, rash, ringing in the ears, and nerve

**Product code:** A1990

**Product name:** ALUMINUM NITRATE,  
NONAHYDRATE, CRYSTAL,  
TECHNICAL

**Page**

deafness. May affect behavior/central nervous system (somnolence), respiration(respiratory depression). It may cause anorexia. Inorganic nitrates can be reduced to nitrites in the stomach and can induce Methemoglobinemia, an increase in the level of methemoglobin in the blood, resulting in hypoxia (decreased blood oxygen), difficulty breathing, and cyanosis (a bluish discoloration of the skin and lips due to deficient oxygenation the blood). Other symptoms of Methemoglobinemia may include chocolate brown colored blood, weakness, dizziness, lethargy, vertigo, lightheadedness, fatigue, lethargy, mental impairment, convulsions, syncope, irregular pulse, anorexia, decrease in blood pressure, headache, tingling, flushing, perspiration, circulatory collapse, loss of consciousness, seizures, coma, death. May affect urinary system (kidneys). May affect behavior/central nervous system (somnolence, ataxia). May affect metabolism (weight loss).

**Aspiration hazard** No information available.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Chronic Toxicity** This product is also a nitrate, therefore nitrate poisoning can occur. Prolonged or repeated nitrate ingestion may affect the urinary system (kidneys) and also may affect the blood, resulting in methemoglobin formation with attendant cyanosis, anorexia, hyperpnea and later dyspnea and chocolate brown colored blood. The primary toxic effects of nitrates include orthostatic hypotension and methemoglobinemia, Other symptoms include muscular weakness, faintness, dizziness, lightheadedness, fatigue, throbbing headache, mental impairment, incoordination, seizures, and convulsions, bradycardia or tachycardia, dysrhythmias, dyspnea. Prolonged or repeated ingestion of large amounts of nitrates may affect the liver and can cause gastroenteritis, nausea, vomiting, abdominal pain, weight loss. Possible coma and death. Chronic ingestion of aluminum may cause Aluminum Related Bone Disease or aluminum-induced Osteomalacia with fracturing Osteodystrophy, microcytic anemia, weakness, fatigue, visual and auditory hallucinations, memory loss, speech and language impairment (dysarthria, stuttering, stammering, anomia, hypofluency, aphasia and eventually, mutism), epileptic seizures(focal or grand mal), motor disturbance(tremors, myoclonic jerks, ataxia, convulsions, asterixis, motor apraxia, muscle fatigue), and dementia (personality changes, altered mood, depression, diminished alertness, lethargy, 'clouding of the sensorium', intellectual deterioration, obtundation, coma), and altered EEG.

**Sensitization:** No information available.

**Mutagenic Effects:** No information available

**Carcinogenic effects:** Not considered carcinogenic.

Component	CAS No	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Aluminum Nitrate, Nonahydrate	7784-27-2	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

*ACGIH (American Conference of Governmental Industrial Hygienists)*

*IARC (International Agency for Research on Cancer)*

*NTP (National Toxicology Program)*

*OSHA (Occupational Safety and Health Administration of the US Department of Labor)*



**Reproductive toxicity** No data is available

**Reproductive Effects:** No information available

**Developmental Effects:** No information available

**Teratogenic Effects:** No information available

**Specific Target Organ Toxicity**

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

**Target Organs:** Blood. Kidneys. Liver.

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

**Ecotoxicity effects:** No data available.

**Persistence and degradability:** No information available

**Bioaccumulative potential:** No information available.

**Mobility in soil** No information available

**Other adverse effects** No information available.

**13. DISPOSAL CONSIDERATIONS**

**Disposal Methods**

**Waste from residues / unused products:**

Waste must be disposed of in accordance with Federal, State and Local regulation.

**Contaminated packaging:**

Empty containers should be taken for local recycling, recovery or waste disposal Do not re-use empty containers  
Dispose of as unused product.

Component	CAS No	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Aluminum Nitrate, Nonahydrate	7784-27-2	None	None	None	None

**14. TRANSPORT INFORMATION**

**DOT**

**UN-No:** UN1438

**Proper Shipping Name:** Aluminum nitrate

**Hazard Class** 5.1

**Subsidiary Class** No information available

**Packing group:** III

**Emergency Response Guide Number** 140

**Product code:** A1990

**Product name:** ALUMINUM NITRATE,  
NONAHYDRATE, CRYSTAL,  
TECHNICAL

**Page**

**Marine Pollutant** No data available  
**DOT RQ (lbs):** No information available  
**Special Provisions** A1, A29, IB8, IP3, T1, TP33  
**Symbol(s):** No information available  
**Description:** UN1438, Aluminum nitrate, 5.1, III

**TDG (Canada)**

**UN-No:** UN1438  
**Proper Shipping Name:** Aluminum nitrate  
**Hazard Class** 5.1  
**Subsidiary Risk:** No information available  
**Packing Group:** III  
**Marine Pollutant** No Information available  
**Description:** UN1438, Aluminum nitrate, 5.1, III

**ADR**

**UN Number** UN1438  
**Proper Shipping Name:** Aluminium nitrate  
**Transport hazard class(es)** 5.1  
**Packing group** III  
**Subsidiary Risk:** No information available  
**Description:** UN1438, Aluminium nitrate, 5.1, III

**IMDG**

**UN-No:** UN1438  
**Proper Shipping Name:** Aluminum nitrate  
**Hazard Class:** 5.1  
**Subsidiary Risk:** No information available  
**Packing Group:** III  
**Marine Pollutant** No information available  
**EMS:** F-A  
**Description** UN1438, Aluminium nitrate, 5.1, III

**RID**

**UN Number** UN1438  
**Proper Shipping Name:** Aluminium nitrate  
**Transport hazard class(es)** 5.1  
**Subsidiary Risk:** No information available  
**Packing group** III  
**Description:** UN1438, Aluminium nitrate, 5.1, III

**ICAO (air)**

**UN-No:** UN1438  
**Proper Shipping Name:** Aluminium nitrate  
**Hazard Class** 5.1  
**Subsidiary Risk:** No information available  
**Packing Group:** III  
**Description:** UN1438, Aluminium nitrate, 5.1, III

**IATA**

**UN Number** UN1438  
**Proper Shipping Name:** Aluminium nitrate  
**Transport hazard class(es)** 5.1  
**Subsidiary Risk:** No information available  
**Packing group** III  
**Precautionary Statements - Response** 5L

**Special Provisions Description:**

No information available  
UN1438, Aluminium nitrate, 5.1, III

**15. REGULATORY INFORMATION**

**International Inventories**

Component	CAS No	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	China IECSC	Australia AICS	EINECS-No.
Aluminum Nitrate, Nonahydrate	7784-27-2	Exempt from listing on TSCA 8(b) Inventory since it is a hydrate. However the anhydrous form (CAS no. 13473-90-0) is listed as ACTIVE on the TSCA 8(b) Inventory.	Not present	Present	Not present	Present	Present	Not present

**U.S. Regulations**

*Aluminum Nitrate, Nonahydrate*

**New Jersey RTK Hazardous Substance List:** sn 3722 (as nitrate compounds)

**New Jersey (EHS) List:** SN 3722 500 lb. TPQ (as nitrate compounds)

**New Jersey - Discharge Prevention - List of Hazardous Substances:** Present (as nitrate compounds, water dissociable)

**Minnesota - Hazardous Substance List:** Present (as aluminum soluble salts)

**California Directors List of Hazardous Substances:** Present (as aluminum soluble salts)

**California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.**

**Chemicals Known to the State of California to Cause Cancer:**

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

**Chemicals Known to the State of California to Cause Reproductive Toxicity:**

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Component	CAS No	Carcinogen	Developmental Toxicity	Male Reproductive Toxicity	Female Reproductive Toxicity:
Aluminum Nitrate, Nonahydrate	7784-27-2	Not Listed	Not Listed	Not Listed	Not Listed

**CERCLA/SARA**

Component	CAS No	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting de minimis
Aluminum Nitrate, Nonahydrate	7784-27-2	None	None	None	Nitrate compounds, water dissociable	1.0% diminimis concentration

**U.S. TSCA**

Component	CAS No	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Aluminum Nitrate, Nonahydrate	7784-27-2	Not Applicable	Not Applicable

**Product code:** A1990

**Product name:** ALUMINUM NITRATE,  
NONAHYDRATE, CRYSTAL,  
TECHNICAL

**Page**

## Canada

### WHMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Information:

Component  
Aluminum Nitrate, Nonahydrate  
7784-27-2 ( 100 )

WHMIS 2015 Hazard Classification  
Oxidizing solids - Category 3: H272 May intensify fire, oxidizer.;  
Serious Eye Damage/Eye Irritation - Category 2A: H319 Causes serious eye irritation.

**Canada Hazardous Products Regulation** This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

### DSL/NDSL

Component	CAS No	Canada (DSL)	Canada (NDSL)
Aluminum Nitrate, Nonahydrate	7784-27-2	Not Listed	Not Listed

Component	CAS No	CEPA Schedule I - Toxic Substances
Aluminum Nitrate, Nonahydrate	7784-27-2	Not listed

Component	CAS No	CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
Aluminum Nitrate, Nonahydrate	7784-27-2	Not listed

### EU Classification

#### EU GHS - SV - CLP 1272/2008

Component	CAS No	EU GHS - SV - CLP (1272/2008)
Aluminum Nitrate, Nonahydrate	7784-27-2	

#### EU - CLP (1272/2008)

#### R-phrase(s)

R 8 - Contact with combustible material may cause fire.  
R36/38 - Irritating to eyes and skin

#### S -phrase(s)

S17 - Keep away from combustible material  
S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice  
S28 - After contact with skin, wash immediately with plenty of water  
S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)  
S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection

Component	CAS No	Classification	Concentration Limits:	Safety Phrases
Aluminum Nitrate, Nonahydrate	7784-27-2		No information	

**The product is classified in accordance with Annex VI to Directive 67/548/EEC**

#### Indication of danger:

O - Oxidising.

**Product code:** A1990

**Product name:** ALUMINUM NITRATE,  
NONAHYDRATE, CRYSTAL,  
TECHNICAL

**Page**

Xi - Irritant

Xi



O



## 16. OTHER INFORMATION

**Preparation Date:** 3/1/2019  
**Revision date** 3/1/2019  
**Prepared by:** Sonia Owen

**Disclaimer:**

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

**End of Safety Data Sheet**