



SAFETY DATA SHEET

Preparation Date: 8/18/2017 Revision Date: 8/18/2017 Revision Number: G2

1. IDENTIFICATION

Product identifier

Product code: A1235

Product Name: AMMONIUM PHOSPHATE, MONOBASIC, CRYSTAL, REAGENT, ACS

Other means of identification

Synonyms: Ammonium dihydrogenorthophosphate

Ammonium dihydrogen phosphate Phosphoric acid, monoammonium salt

Ammonium acid phosphate Ammonium diacid phosphate Ammonium biphosphate

Ammonium monobasic phosphate Dihydrogen ammonium phosphate Monobasic ammonium phosphate

CAS #: 7722-76-1
RTECS # TC6587000
CI#: Not available

Recommended use of the chemical and restrictions on use

Recommended use: Fertilizer compositons. Fire extinguishing agent.

Uses advised against No information available

Supplier: Spectrum Chemical Mfg. Corp

14422 South San Pedro St. Gardena, CA 90248

Gardena, CA 9024 (310) 516-8000.

Order Online At: https://www.spectrumchemical.com

Emergency telephone numberChemtrec 1-800-424-9300Contact Person:Martin LaBenz (West Coast)Contact Person:Ibad Tirmiz (East Coast)

2. HAZARDS IDENTIFICATION

Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Label elements

	Not classified
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Product code: A1235 Product name: AMMONIUM 1/11

Hazards not otherwise classified (HNOC)

Not Applicable

Other hazards

Not available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %
Ammonium Phosphate Monobasic	7722-76-1	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 irritation develops. Consult a physician if necessary.

Eye Contact: Flush eyes with water for 15 minutes. Get medical attention if irritation occurs. 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

unconscious person. Consult a physician if necessary.

Most important symptoms and effects, both acute and delayed

Symptoms Health injuries are not known or expected under normal use. Dust may cause respiratory

tract irritation. Ingestion of large amounts may cause nausea, vomiting, abdominal pain.

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: The product is not flammable.

Unsuitable Extinguishing Media: No information available.

Specific hazards arising from the chemical

Hazardous Combustion Products: Nitrogen oxides, Phosphorus oxides

Product code: A1235 Product name: AMMONIUM 2 / 11

Hazardous Combustion Products: No information available.

Specific hazards: When heated to decomposition it emits toxic gases and

irritating fumes.

Special Protective Actions for Firefighters

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: Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin,

eyes and clothing. Avoid dust formation. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective

clothing. Remove all sources of ignition.

Environmental precautions Prevent further leakage or spillage if safe to do so. Prevent product from entering

drains. Prevent entry into waterways, sewers, basements or confined areas.

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 into suitable containers for disposal. 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. Keep away from incompatible materials.

Safe Handling Advice

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. Do not ingest. Do not breathe vapors/dust. 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. Store at room temperature in the original container. Store away from incompatible materials.

Incompatible Materials:

Acids
Alkalis
Oxidizing agents
Reducing agents

Product code: A1235 Product name: AMMONIUM 3 / 11

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

Components	CAS-No.	OSHA	NIOSH	ACGIH	AIHA WEEL
Ammonium Phosphate Monobasic	7722-76-1	None	None	None	None

Canada

Components	CAS-No.	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Ammonium Phosphate Monobasic	7722-76-1	None	None	None	None

Australia and Mexico

Components	CAS-No.	Australia	Mexico
Ammonium Phosphate Monobasic	7722-76-1	None	None

Appropriate engineering controls

Engineering measures to reduce exposure: Ensure adequate ventilation. 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: Safety glasses Safety glasses with side-shields

Skin and body protection: Chemical resistant apron

Gloves

Long sleeved clothing

Respiratory protection: Effective dust mask. Wear respirator with dust filter.

Hygiene measures: Avoid contact with skin, eyes and clothing. Wash hands before breaks and

immediately after handling the product. When using, do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Appearance: Color:

Solid Crystals. White. Light gray.

Odor:TasteFormula:Odorless. Slight. Ammonia.No information available.NH4H2PO4

Molecular/Formula weight:Flammability:Flashpoint (°C/°F):115.03Non-flammableNo information available.

Product code: A1235 Product name: AMMONIUM 4 / 11

Flash Point Tested according to:

Not available

Autoignition Temperature (°C/°F):

No information available

Lower Explosion Limit (%):

No information available

Upper Explosion Limit (%):

No information available

Melting point/range(°C/°F):

190°C/374°F

Decomposition temperature(°C/°F):

No information available

Boiling point/range(°C/°F):

No information available

Bulk density:

850-1200 kg/m³

Density (g/cm3):

No information available

Specific gravity: 1.803

3.8-4.4 (0.2M)

4.5 (1%)

Vapor pressure @ 20°C (kPa):

No information available

Evaporation rate: No information available Vapor density: 3.98

VOC content (g/L): No information available

Odor threshold (ppm):

Partition coefficient

Viscosity:

No information available

(n-octanol/water): No information available No information available

Miscibility:

Solubility:

No information available

Easily soluble in hot water Soluble in cold water Insoluble in Acetone Slightly soluble in Ethanol

10. STABILITY AND REACTIVITY

Reactivity

Reactive with acids Reactive with alkalis

Reactive with oxidizing agents Reacts with reducing agents

Chemical stability

Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

Incompatible materials. Conditions to avoid:

Incompatible Materials: Acids

Alkalis

Oxidizing agents Reducing agents

Hazardous decomposition

products:

Ammonia. Phosphoric acid. Nitrogen oxides (NOx). Phosphorus oxides.

Other Information

Corrosivity: No information available

Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Product code: A1235 Product name: AMMONIUM

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Information on likely routes of exposure

Principal Routes of Exposure:

Ingestion. Inhalation.

Acute Toxicity

Component Information

Ammonium Phosphate Monobasic

CAS-No. 7722-76-1

LD50/oral/rat = 5750 mg/kg Oral LD50 Rat LD50/oral/mouse = No information available

LD50/dermal/rabbit = 7940 mg/kg Dermal LD50Rabbit

LD50/dermal/rat = No information available LC50/inhalation/rat = No information available LC50/inhalation/mouse = No infomation available

Other LD50 or LC50information = No information available

Product Information

LD50/oral/rat =

VALUE- Acute Tox Oral = 5750 mg/kg

LD50/oral/mouse =

Value - Acute Tox Oral = No information available

LD50/dermal/rabbit

VALUE-Acute Tox Dermal = 7940 mg/kg

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: May cause skin irritation.

May cause eye irritation. **Eye Contact:**

Inhalation Inhalation of dust or powder may cause respiratory tract irritation. Aspiration may

lead to pulmonary edema.

May cause gastrointestinal (digestive) tract irritation with nausea, vomiting, Ingestion

diarrhea. May cause stomach cramping.

No information available. **Aspiration hazard**

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

Chronic Toxicity No information available.

Sensitization: No information available.

Mutagenic Effects: No information available

Carcinogenic effects: Not considered carcinogenic.

Components	CAS-No.	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic	Australia - Prohibited Carcinogenic
						Substances	Substances
Ammonium Phosphate Monobasic	7722-76-1	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 STOT - repeated exposure Target Organs: No information available. No information available. No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects: No data available.

Persistence and degradability: No information available

Bioaccumulative potential: No information available.

Mobility: 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.

Product code: A1235 Product name: AMMONIUM

Product name: AMMONIUM PHOSPHATE, MONOBASIC, CRYSTAL, REAGENT, ACS

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Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal

Components	CAS-No.	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Ammonium Phosphate Monobasic	7722-76-1	None	None	None	None

14. TRANSPORT INFORMATION

DOT

UN-No: Not Regulated

Proper Shipping Name: No information available Hazard Class: No information available Subsidiary Class No information available Packing group: No information available Emergency Response Guide No information available

Number

Marine PollutantNo data availableDOT RQ (lbs):No information availableSpecial ProvisionsNo Information availableSymbol(s):No information availableDescription:No information available

TDG (Canada)

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
Marine Pollutant
Description:
No information available

ADR

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Packing Group:
Subsidiary Risk:
No information available
No information available
No information available

IMO / IMDG

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
Marine Pollutant

No information available
No information available
No information available
No information available

RID

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
No information available
No information available
No information available

ICAO

UN-No: Not Regulated

Product code: A1235 Product name: AMMONIUM 8 / 11

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
No information available
No information available
No information available
No information available

IATA

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
ERG Code:
No information available

15. REGULATORY INFORMATION

International Inventories

Components	CAS-No.	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
Ammonium Phosphate	7722-76-1	Present	Present	Present	Present	Present	Present	Present
Monobasic			KE-01656		(1)-379			231-764-5

U.S. Regulations

Ammonium Phosphate Monobasic

FDA - Food Additives Generally Recognized as Safe (GRAS): 21 CFR 184.1141(a)

FDA - 21 CFR - Total Food Additives 184.1141A 73.85

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)

Components	CAS-No.	Carcinogen	Developmental Toxicity		Female Reproductive
				Toxicity	Toxicity:
Ammonium Phosphate Monobasic	7722-76-1	Not Listed	Not Listed	Not Listed	Not Listed

CERCLA/SARA

Components	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
Ammonium Phosphate Monobasic	7722-76-1	None	None	None		1.0 % de minimis concentration

U.S. TSCA

Components	CAS-No.	TSCA Section 5(a)2 - Chemicals	TSCA 8(d) -Health and Safety
		With Significant New Use Rules	Reporting
		(SNURS)	
Ammonium Phosphate Monobasic	7722-76-1	Not Applicable	Not Applicable

Canada

Product code: A1235 Product name: AMMONIUM

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WHIMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Information:

Not a dangerous product according to HPR classification criteria.

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

WHMIS 1988 Hazard Class

Non-controlled

Canada Controlled Products Regulation:

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

Inventory

Components	CAS-No.	Canada (DSL)	Canada (NDSL)
Ammonium Phosphate Monobasic	7722-76-1	Present	Not Listed

Components	CAS-No.	CEPA Schedule I - Toxic Substances
Ammonium Phosphate Monobasic	7722-76-1	Not listed
Components		CEPA - 2010 Greenhouse Gases Subject
		to Mandatory Reporting
Ammonium Phosphate Monobasic	7722-76-1	Not listed

EU Classification

EU GHS - SV - CLP 1272/2008

Components	CAS-No.	EU GHS - SV - CLP (1272/2008)
Ammonium Phosphate Monobasic	7722-76-1	

EU - CLP (1272/2008)

R-phrase(s)

not determined (not applicable)

S -phrase(s)

none

Components	CAS-No.	Classification	Concentration Limits:	Safety Phrases
Ammonium Phosphate Monobasic	7722-76-1		No information	

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

Indication of danger:

None.

16. OTHER INFORMATION

Preparation Date: 8/18/2017

Product code: A1235 Product name: AMMONIUM 10 / 11 PHOSPHATE, MONOBASIC,

CRYSTAL, REAGENT, ACS

Revision Date: 8/18/2017

Product code: A1235

Prepared by: Roumann Pangilinan

Disclaimer: All chemicals may pose unknown hazards and should be used with caution. This

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End of Safety Data Sheet

Product name: AMMONIUM PHOSPHATE, MONOBASIC, CRYSTAL, REAGENT, ACS