SAFETY DATA SHEET

According to 29 CFR 1910.1200

NITRASOL AMMONIUM

Date of issue: July 01, 2012 **Revision date:** July 12, 2016 **Version.** 3

SECTION 1.- IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product form	Nitrasol Ammonium
Substance name	Ammonium Nitrate Phosphate
CAS No.	Not available
Formula	NH_4NO_3 + P
Synonyms	Phosphonitrate, ammonium nitrate stabilized, nitric salt, based fertilizer nitrates and phosphates.

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture	Fertilizers

1.3 Details of the supplier of the safety data sheet

Pima Chemicals & Fertilizers, LLC
1370 Nogales, Az.
Tel. 011 52 (662) 182-0559
rgutierrez@quimicapima.com
www.quimicapima.com

Química Pima, S.A. de C.V.
Del Cobre 20, Parque Industrial Hermosillo.
Hermosillo, Sonora, México. C.P. 83297
Tel. 011 (662) 251-0010 ventas@quimicapima.com

1.4 Emergency telephone number

Emergency number	CHEMTREC (24HR Emergency Telephone), call: 1-800-424-9300

SECTION 2.- HAZARD IDENTIFICATION

2.1. GHS-US classification

Oxidizing solids 3 H272

Eye damage/irritation 2A H319

2.2. Label elements+

GHS-US labelling

Hazard pictograms (GHS-US)

Signal word (GHS-US):	Warning
Hazard statement (GHS-US):	H272 May intensify fire; oxidizer. H319 Causes serious eye irritation.
Precautionary statements (GHS-US):	P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking. P220 Keep/Store away from clothing, combustible materials. P221 Take any precaution to avoid mixing with combustibles. P261 Avoid breathing dust. P264 Wash exposed skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice/attention.
P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.

P403 Store in a well-ventilated place. Store away from incompatible materials.

P501 Dispose of contents/container in accordance with local/regional/national/ international regulations.

2.3. Other hazards None to our knowledge.

2.4 Unknown acute toxicity (GHS-US) Not applicable.

SECTION 3.- COMPOSICION / INFORMATION OF INGREDIENTS

3.1 Substance Not applicable

3.2 Mixture

Name	*Product identifier*	*%*	*GHS-US classification*
Ammonium Nitrate	(CAS No.) 6484-52-2	> 97.00	Ox. Sol. 3; H272 Eye Irrit. 2BA, H319
Ammonium Phosphate	(CAS No.) 7783-28-0	< 3.0	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT-SE 3; H335

SECTION 4.- FIRST AID MEASURE

4.1. Description of first air measure

First-aid measures general Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice.

First-aid measures after eye contact Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation develops or persists.

First-aid measures after skin contact Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Obtain medical attention if irritation develops or persists.

First-aid measures after inhalation When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

First-aid measures after ingestion Rinse mouth. Do NOT induce vomiting. Seek medical attention immediately.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation May cause respiratory irritation.

Symptoms/injuries after skin contact May cause skin irritation.

Symptoms/injuries after eye contact Causes serious eye irritation.

Symptoms/injuries after ingestion Ingestion is likely to be harmful or have adverse effects.

Chronic symptoms Not available.

4.3. Indications of any immediate medical attention and special treatment needed

If exposed or concerned, get medical advice and attention.

SECTION 5.- FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media Water spray.

Unsuitable extinguishing media Dry chemical, carbon dioxide, or regular foam.

5.2. Special hazard arising from the substance or mixture

Fire hazard May intensify fire; oxidizer. Will burn if mixed or contaminated with combustible materials and exposed to heat. In addition, will accelerate the burning of other combustibles, resulting in more rapid spread of fire. Will not spontaneously combust. However, spontaneous ignition at moderately elevated temperatures may occur when contaminated with oxidizable materials such as oil, diesel fuel, wood, seed, charcoal, sulphur, finely divided metals or other combustible substances.

Explosion hazard Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries. Confinement, smothering, contact with organic material, or combustible material may cause an explosion.

Reactivity May cause or intensify fire; oxidizer. May accelerate the burning of other combustible materials. Smothering, contact with organic material, or combustible material may cause an explosive situation.

5.3. Advice for firefighters

Precautionary measures fire Exercise caution when fighting any chemical fire.

Firefighting instructions Fight fire remotely due to the risk of explosion. Use water spray or fog for cooling exposed containers. If structure containing Ammonium Nitrate is fully engulfed in flames, DO NOT fight fire. Evacuate surrounding area for at least ½ mile radius.

Protection during firefighting Do not enter fire area without proper protective equipment, including respiratory protection.

Other information Do not add water to molten material as this may cause spattering. Do not allow run-off from fire fighting to enter drains or water courses. Never seal off or close building doors or compartments when fire occurs.

SECTION 6.- ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. General measures

Handle in accordance with good industrial hygiene and safety practice. Avoid breathing (dust). Do not get in eyes, on skin, or on clothing. Keep away from combustible material. Avoid generating dust.

6.1.2. For non-emergency personnel

Protective equipment Use appropriate personal protection equipment.

Emergency procedures Evacuate unnecessary personnel.

6.1.3. For emergency responders

Protective equipment	Equip cleanup crew with proper protection. Use appropriate personal protection equipment.
Emergency procedures	Ventilate area.

6.2. Environmental precautions

Avoid release to the environment. Do not allow product to spread into the environment. Do not discharge into drains or rivers

6.3. Methods and material for containment and cleaning up.

Method for containment	Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
Methods for cleaning up	Clean up spills immediately and dispose of waste safely. Absorb and/or contain spill with inert material, then place in suitable container. Contact competent authorities after a spill. Do not take up in combustible material such as: saw dust or cellulosic material.
Other information	Dispose of materials or solid residues at an authorized site.

6.4 Reference to other sections

For further information refer to section 8: Exposure-controls/personal protection.

SECTION 7.- HANDLING AND STORAGE

7.1. Precautions for safe handling

Avoid excessive generation of dust. Avoid contamination by combustible (e.g. diesel, oil, grease, etc.) and/or other incompatible materials. Avoid unnecessary exposure to the atmosphere to prevent moisture pick-up. When handling the product over long periods use appropriate personal protective equipment, e.g. gloves.

7.2. Conditions for safe storage, including any incompatibilities

Store in compliance with national and local regulations. Locate away from the sources of heat or fire. Keep away from combustible materials and substances mentioned under Section 10. On farm, ensure that the fertilizer is not stored near hay, straw, grain, diesel oil, etc. When stored loose, take particular care to avoid mixing with other fertilizers. Ensure high standard of housekeeping in the storage area. Do not permit smoking and use of naked lights in the storage areas. Any building used for the storage should be dry and well ventilated. The product should not be stored in direct sunlight to avoid physical breakdown due to thermal cycling.

SECTION 8.- EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Name	*ACGIH TLV*	*OSHA PEL*	*NIOSH IDLH*
Ammonium Nitrate 6484-52-2	Not available	Not available	Not available
Ammonium Phosphate 7783-28-0	Not available	Not available	Not available

8.2. Exposure controls

Appropriate engineering controls	Ensure all national/local regulations are observed. Ensure adequate ventilation, especially in confined areas. Use explosion-proof equipment.
Personal protective equipment	Protective goggles. Gloves. Insufficient ventilation: wear respiratory protection. Protective clothing.
Material for protective clothing	Chemically resistant materials and fabrics.
Hand protection	Wear chemically resistant protective gloves.
Eye protection	Chemical goggles when direct eye contact is possible.

Skin and body protection	Not available.
Respiratory protection	Use NIOSH-approved air-purifying or supplied-air respirator where airborne concentrations of vapor or mist are expected to exceed exposure limits.
Environmental exposure controls	When using, do not eat, drink or smoke.

SECTION 9.- PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state:	Solid.	**Appearance:**	Granules.
Odor:	Slight smell of ammonia.	**Color:**	Grayish white to white.

Molecular mass	80.04 g/mol
Odor threshold	No data available.
pH	5.5 – 6.5
pH solution	10%
Relative evaporation rate (butyl acetate=1)	No data available.
Melting point	333°C
Freezing point	No data available.
Boiling point	155°C
Flash point	Not applicable.
Self ignition temperature	Not applicable.
Decomposition temperature	155°C
Flammability (solid, gas)	No data available.
Vapor pressure	No data available.
Relative vapor density at 20°C	No data available.
Relative density	No data available.
Density/specific gravity	900-1000 kg/m^3
Solubility	Soluble in water. Water: 118 g/100 ml.
Log Pow	Not applicable (inorganic substance).
Log Kow	No data available.
Viscosity, kinematic	No data available.
Viscosity, dynamic	No data available.
Explosive properties	No data available.
Oxidizing properties	May intensify fire; oxidizer.
Explosive limits	No data available.

9.2 Other information

No additional information available.

SECTION 10.- STABILITY AND REACTIVITY

10.1 Reactivity	May intensify fire; oxidizer. May accelerate the burning of other combustible materials. Confinement, smothering, contact with organic material, or combustible material may cause an explosive situation.
10.2 Chemical stability	May intensify fire; oxidizer. Starts to dissociate and decompose at temperatures above 155°C (311°F). Upon decomposition, ammonium nitrate emits nitrogen oxides and water vapor and may explode if confined.
10.3 Possibility of hazardous reactions	Hazardous polymerization will not occur.
10.4 Conditions to avoid	Direct sunlight. Extremely high or low temperatures. Heat. Sparks. Overheating. Open flame. Combustible materials. Sources of ignition. Incompatible materials.
10.5 Incompatible materials	Strong acids. Strong bases. Strong oxidizers. Halogens. Chlorine compounds, chlorinated inorganic (potassium, calcium and sodium hypochlorite) and hydrogen peroxides. Organic materials.
10.6 Hazardous decomposition products	Carbon oxides (CO, CO_2). Nitrogen oxides. Toxic vapors. Ammonia.

SECTION 11.-TOXICOLOGICAL INFORMATION

11. 1. Information on toxicological effects

Likely routes of exposure	Skin and eyes contact; inhalation; ingestion.
Acute toxicity	Not classified.

Name	LD_{50} oral	LD_{50} dermal	LC_{50} inhalation
Ammonium Nitrate	2217 mg/kg (rat)	-	-
Ammonium Phosphate	3000 mg/kg (rat)	-	-

Skin corrosion/irritation	Not classified.
Serious eye damage/irritation	Causes serious eye irritation.
Respiratory or skin sensitization	Not classified.
Germ cell mutagenicity	Not classified.
Carcinogenicity	Not classified.
Reproductive toxicity	Not classified.
Specific target toxicity (single exposure)	Not classified.
Specific target toxicity (repeat exposure)	Not classified.
Aspiration hazard	Not classified.

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity

Ecology - General	Not classified.
Ecology - Air	Not classified.
Ecology - Water	Not classified.

12.2 Persistence and degradability

Not established.

12.3 Bioaccumulative potential

No bioaccumulation expected.

12.4 Mobility in soil

Low potential for adsorption (based on substance properties). Very soluble in water. The NO3- ion is mobile. The NH4+ ion is absorbed by soil.

12.5 Other adverse effects

Other information	Avoid release to the environment. Nitrasol Ammonium is a plant nutrient. However, large spills may kill vegetation and fish and cause algae blooms if waterways are contaminated. Heavy spillage may cause adverse environmental impact such as eutrophication in confined surface waters.

SECTION 13.- DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste disposal recommendations	In accordance with local and national regulations, disposed by landfill or incineration. Controlled biodegradation in waste water treatment is possible. Containers should be cleaned by appropriate method and then re-used or disposed by landfill or incineration as appropriate, in accordance with local and national regulations. Do not remove label until container is thoroughly cleaned. Depending on degree and nature of contamination dispose of by use as fertilizer on farm, as raw material for liquid fertilizer, or to an authorized waste facility. Do not empty into drains; dispose of this material and its container in a safe way and in accordance with all applicable local and national regulations.
Additional information	Clean up even minor leaks or spills if possible without unnecessary risk. Empty the bag by shaking to remove as much as possible of its contents. If approved by local authorities, empty bags may be disposed of as non-hazardous material or returned for recycling.

SECTION 14.- TRANSPORT INFORMATION

14.1.UN number	Not applicable. In accordance with DOT not regulated for transport.
14.2. UN proper shipping name	Not applicable.
14.3. Additional information	
Other information	No supplementary information available.
Overland transport	No additional information available.
Transport by sea	No additional information available.
Air transport	No additional information available.

SECTION 15.- REGULATORY INFORMATION

15.1 US Federal regulations

Ammonium Nitrate (6484-52-2)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2 International regulations

CANADA

Ammonium Nitrate (6484-52-2)	
Listed on the Canadian DSL (Domestic Substances List) inventory.	
WHMIS Classification	Class C - Oxidizing Material Class D Division 2 Subdivision B - Toxic material causing other toxic effects

EU-Regulations

Ammonium Nitrate (6484-52-2)
No additional information available.

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Ox. Sol. 3 H272

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

O; R8

15.2.2. National regulations

Ammonium Nitrate (6484-52-2)
Not listed on the Canadian Ingredient Disclosure List.

15.3 US State regulations

No additional information available.

SECTION 16.- OTHER INFORMATION

NFPA	NFPA health hazard	1	NFPA fire hazard	0	NFPA instability hazard	0	NFPA Special hazard	-
HMIS III	Health	1	Flammability	0	Physical	1	Personal Protection	F

F Safety glasses, gloves, protective apron and dust respirator.




Other information: None.

Made for: Quimica Pima, S.A. de C.V. Del Cobre No. 20 Parque Industrial. Hermosillo, Sonora, México. 83297.

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Revision note: In this latest revision is updated according to 29 CFR 1910.1200.

IMPORTANT NOTE: Information in this SDS is from available published sources and is believed to be accurate, but is not exhaustive and will be used only as a guide, which is based on current knowledge of the chemical substance or mixture and apply to the appropriate product for safety precautions. No warranty, express or implied, is made and Pima Chemicals & Fertilizers, LLC and Quimica Pima, S.A. de C.V. assumes no liability resulting from the use of this SDS. The user must determine suitability of this information for his application.

End of Safety Data Sheet