



Urea Phosphate

SAFETY DATA SHEET

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SDS#: 8

Review/Revision Date: 08/20/18

SECTION 1 - General Information And Chemical Product Identification

Trade Name: **Urea Phosphate**

CAS #: **4861-19-2**

Chemical Name: **Urea Phosphate**

Product Code:

Application/Uses/ **FERTILIZER**

UREAPHSAC

Restrictions **No none known restrictions**

Distributor Information **LidoChem, Inc. 20 Village Court, Hazlet, NJ 07730, Phone: (732) 888 8000
Fax: (732) 264 2751 * email: info@lidochem.com**

Emergency phone #: **CHEMTREC - Day or Night - at 800 424 9300**

SECTION 2 - Hazard(s) Identification

Classification of the substance or mixture (GHS-US)

Skin corrosion (Category 1B), H314
Serious eye damage (Category 1), H318

Physical Hazards

Not classified

Hazard Statement

H314: Causes severe skin burns and eye damage

OSHA Defined Hazards

This product is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910,1200.

HNOC - Hazards Not Otherwise Classified



Corrosive

Signal
Word
Danger

GHS Precautionary Statements - Prevention, Response, Storage, Disposal

P101: If medical advice is needed, have product container or label at hand
P260: Do not breathe dust
P352: Wash with soap and water after handling

P280: Wear protective gloves/protective clothing/eye protection/face protection
P301+330+331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
P302+352: IF ON SKIN: Wash with soap and water

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
P315: Get immediate medical advice/attention

P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P363: Wash contaminated clothing before reuse

P405: Store locked up
P501: Dispose of contents/container according to federal, state and local regulations.

SECTION 3 Composition/information On Ingredients

Molecular Weight: **158.06**

Chemical FORMULA: **CO (NH₂)₂.H₃PO₄**

CAS#:	Common Name/Synonyms:	% by Wt.
4861-19-2	Urea Phosphate	98%Min
	Water / water insolubles	2% Max

SECTION 4 - First Aid Information**Description of first aid measures****General Advice:**

Remove contaminated clothing and shoes. Seek medical advice immediately and show safety data sheet or product label to the doctor, if possible.

If Inhaled:

If exposed to dust, causes irritation or distress. Remove victim from immediate source of exposure and assure that the victim is breathing. If breathing is difficult, administer oxygen, if available. If victim is not breathing, administer CPR (cardiopulmonary resuscitation). Seek medical attention.

In Case Of Skin Contact:

Immediately wash with soap and water for a minimum of 15 minutes. Wash clothing before reuse and discard footwear which cannot be cleaned. Get immediate medical attention if irritation occurs.

In Case Of Eye Contact:

Flush eyes with large quantities of running water for a minimum of 15 minutes. If present and easy to do, remove contact lenses. Hold eyelids apart during the flushing to ensure rinsing of entire surface of the eye and lids with water. DO NOT let victim rub eye(s). Do not attempt to neutralize with chemical agents. Oils/ointments should not be used at this time. Get medical attention if eye irritation occurs.

If Swallowed:

Call a physician or Poison Control Center immediately. **Do not induce vomiting or give anything to eat or drink to someone who is unconscious, having convulsions, or unable to swallow.**

Most important symptoms and effects, both acute and delayed:

Eye: Tearing and redness. Skin: Prolonged contact may cause irritation with symptoms such as redness, swelling, itching and pain. Inhalation: Symptoms may include coughing, shortness of breath, sore throat or runny nose. Ingestion: Small quantities (such as a tablespoon full) swallowed during normal handling operations are unlikely to cause injury; swallowing amounts larger than that may cause injury.

Indication of any immediate medical attention and special treatment needed:

No additional information - TREAT SYMPTOMATICALLY

SECTION 5 - Fire And Explosion Data**Suitable Extinguishing Media:**

Water should be used for this material, when this material is decomposing because of heated up. For the main fire, water, dry chemical, carbon dioxide, halon or fog can be used. Product is non-flammable

Unsuitable Extinguishing Media:

None specified.

Specific Hazards arising from the chemical:

Noxious gases ammonia NH₃ and Carbon Dioxide CO₂ are formed in a fire.

Special protective equipment and precautions for fire-fighters:

Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing.

Fire-fighting equipment/instructions

Respiratory and eye protection required for fighting personnel as well as full protective gear.

Specific Methods

No additional information.

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:

Utilize recommended protective clothing and equipment.

Environmental Precautions:

Do not discharge into drains. Avoid surface and ground water contamination.

Methods and Materials for Containment and Clean Up:

Clean spills in a manner that does not disperse dust into the air. Sweep or scoop up but avoid using combustibles (such as wood, paper, oil, etc.) for cleaning spills. Pick up the dry product mechanically and store in suitable containers for recovery or disposal. Spill area can be washed with water. Collect wash water for approved disposal. Keep from entering water or ground water.

Section 7- Handling and Storage

Precautions for safe handling:

Avoid breathing dust. Avoid getting in eyes or on skin. Wash thoroughly after handling.

Conditions for safe storage:

Protect packages against physical damage. Store in a cool, dry place away from direct sunlight, heat, and incompatible materials. Reseal containers immediately after use. Store away from food and beverages. Immediately remove and dispose of any spilled material.

Incompatibilities:

Do not store near acids, Bases, oxidizing and reducing agents, organics and other oxidizable materials or where flammable or combustible materials are stored.

Section 8 - Exposure Control and Personal Protection

Occupational Exposure Limits:

Chemical Identity:	CAS #:	Exposure Limit Values		SOURCE	OSHA/PPM
		TWA	STEL		PEL
Urea Phosphate	4861-19-2	1mg/m ³		ACGIH Threshold Limit Values	15 mg/mm3
Water / water insolubles				ACGIH Threshold Limit Values	
				ACGIH Threshold Limit Values	

Exposure Limits and Appropriate Engineering Controls:

Exposure limits represent regulated or recommended worker breathing zone concentrations measured by validated sampling and analytical methods, meeting OSHA requirements. The following limits (ACGIH, OSHA and other) apply to this material, where, if indicated, S=skin and C=ceiling limit:
ACGH TLV/TWA PARTICULATES NOT OTHERWISE CLASSIFIED : 10 mg/cubic meter(INHALABLES)

Individual Protection Measures, (Personal Protective Equipment):

Eye Protection

Eye and face protection requirements will vary dependent upon work environment conditions and material handling practices. Appropriate ANSI Z87 approved equipment should be selected for the particular use intended for this material. It is generally regarded as good practice to wear a minimum of safety glasses with side shields when working in industrial environments.

Skin Protection

Skin contact should be minimized through use of gloves and suitable long sleeved clothing (i.e., shirts and pants). Consideration must be given both to durability as well as permeation resistance.

Other Protection:

For operations where skin contact can occur, wear clothing (such as boots, apron or coveralls) to limit skin contact.

Respiratory Protection

When respirators are required, select NIOSH/MSHA approved equipment based on actual or potential airborne concentrations and in accordance with the latest OSHA standard (29 CFR 1910.134) and/or ANSI Z88.2 recommendations.

Ventilation Limits:

Use local ventilation if dusting is a problem, to maintain air levels below the recommended exposure limit. ACGIH TLV for "Particles Not Otherwise Classified" = 10 mg/mm³ OSHA PEL for inert or Nuisance Dust = 15 mg/mm³.

Hygienic Practices:

A safety shower and eye wash facility should be available. Employees should wash their hands and face before eating, drinking or using tobacco products.

Section 9 - Physical and Chemical Properties

Appearance And Odor: White Crystalline, Odorless

pH: 1.89% Min.

Melting Point: 117°C

Flammable Limits: N/A

Freezing Point: No data available

UEL: N/A

Boiling Point: No data available

LEL: N/A

Flash Point: No data available

Vapor Pressure(mm/hg): <0.00147

Evaporation Rate: No data available

Vapor Density(air=1): No data available

Solubilities: 50 mg/100 ml

Autoignition Temp: No data available

Specific Gravity: No data available

Decomposition Temp: No data available

Bulk Density: Bulk Density: 1000 kg/m³

Reactivity In Water: No data available

Other Information: Relative Density: 1.77 (20°C)

Viscosity: No data available

Section 10 - Stability and Reactivity

Chemical Stability and Reactivity:

This product is considered stable.

Possible Hazardous Reactions:

Carbon oxides, nitrogen oxides (NO_x)

Conditions to Avoid:

Excessive temperatures.

Incompatible Materials:

Do not store near acids, Bases, oxidizing and reducing agents, organics and other oxidizable materials or where flammable or combustible materials are stored.

Hazardous Decomposition Products:

Fumes of NH₃ and CO₂ are released when heated at high temperatures.

Section 11- Toxicological Information

Information On The Likely Routes Of Exposure: Inhalation, Ingestion and Dermal.

Symptoms Related To The Physical, Chemical And Toxicological Effects:

Inhalation Effects:

N/A

Skin Effects:

Causes burns to skin.

Dermal Toxicity:

N/A

Eye Effects:

Irritating to eyes. Provoke tears.

Ingestion Effects:

LD 50 /oral/mouse = 5840 mg/kg

Sensitization:

N/A

Carcinogenicity/Mutagenicity:

Not listed as a carcinogen by NTP, IARC or OSHA.

No information available for Mutagenicity.

Reproductive Effects:

No information found.

Neurotoxicity:

No information found.

Target Organs:

No information found.

Additional Toxicological Information:

None

Section 12- Ecological Information

Ecotoxicity: May be harmful to aquatic organisms (pH). Eutrophication.

Degradability: Not biodegradable

Bioaccumulative potential: Does not bioaccumulate

Mobility in the Soil: contact with water liberates: Phosphoric acid and Urea

Additional Adverse effect on environment:

The product is not expected to harm the environment when used properly according to directions.

SECTION 13 - Disposal Considerations

Disposal Instructions and Regulations:

Consult an expert on the disposal of recovered material. Ensure disposal is in compliance with government requirements and ensure conformity of local disposal regulations. Notify the appropriate authorities immediately. Take all additional action necessary to prevent and remedy the adverse effects of the spill. Chemical additions, processing or otherwise altering this material may make the waste management information presented incomplete, inaccurate or otherwise inappropriate.

Hazardous Waste Code: Not considered a hazardous waste

Container Disposal Information:

Consult an expert on the disposal of container. Ensure disposal is in compliance with government requirements and ensure conformity of local disposal regulations. Notify the appropriate authorities immediately.

Section 14 - Transport Information

US DOT, IATA, IMO, ADR:

Proper Shipping Name: Urea Phosphate

D. O. T. Hazard Class: Not Regulated by D.O.T.

UN #: None

Label Requirement: None

RQ: N/Ap

Placard: None

CAS: 4861-19-2

Packing Group: N/Ap

ERG Book Information: 154

Environment Hazards: No

Marine Pollutant: No

Special Precautions: No

IATA: Not regulated as dangerous goods.

Section 15 - Regulatory Information

US Federal - OSHA Status:

This product is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910,1200.

TSCA Status:

Listed/Reportable on the Active TSCA List

U.S. SARA Reporting Requirements:

SARA Title III Hazard Classes Section 302 - EXTREMELY HAZARDOUS SUBSTANCES:

This product does NOT contain ingredients listed in Appendix A and B as Extremely Hazardous substances.

SARA Title III Hazard Classes Sections 311/312:

Immediate (acute) health hazard

SARA Section 313 Toxic Chemicals:

Not listed as a SARA Section 313 toxic chemical.

CAS# Chemical Name:

This material does NOT contain any chemical components with known CAS numbers that exceed the threshold reporting levels.

SARA Superfund Section 110:

This product does not contain ingredients listed as hazardous substances on the Priority List of CERCLA Hazardous substances.

CERCLA, 40 CFR 117, 302:

This product does NOT contain ingredients specified in the List of Extremely Hazardous Substances.

CERCLA listed substances are:

None

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Other Federal Reporting Requirements:

CAA: This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act
CWA: No chemicals in product are listed a Hazardous Substances, Priority Pollutants or Toxic Pollutants under the CWA.
RCRA: Not considered a hazardous waste.

State Reporting Requirements:

State Right to Know Laws:

CAS#	State RTK	Chemical Name
4861-19-2	PA	Urea Phosphate

CALIFORNIA PROPOSITION 65:

To the best of our knowledge, this product does NOT contain any of the listed chemicals, which the state of California has found to cause cancer, birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.

Michigan Critical Materials:

This product does NOT contain ingredients listed on the Michigan Critical Materials Register.

Global Lists/International Inventories:

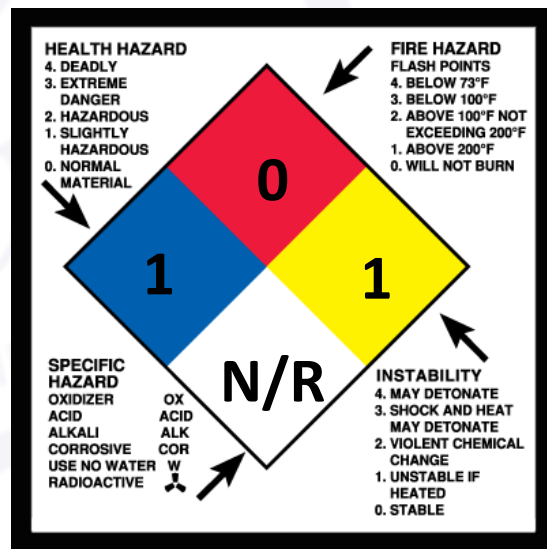
Canada CEPA: Not listed on the DSL
Canada WHMIS: Not listed

SECTION 16 - Other Information

6-15-2015 SDS reviewed - updated to GHS requirements. This replaces all previous MSDS's
5-15-17 - Review - no changes-

8-20-18 - Reviewed, updated California Proposition 65 statement, this replaces all previous SDS's.

8-22-19 - Updated TSCA inventory - product is on the active TSCA list.



Date of last revision:

8-20-2018

Reach Number EU

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NOTICE: OSHA STANDARD 29 CFR 1910.1200 requires that information be provided to employees regarding the hazards of chemicals by means of a Hazard Communication Program including training, labeling, Material Safety Data Sheets, and access to written records. We request that you, and it is your legal duty, make all information in this Material Safety Data Sheet available to your employees.

Key Legend Information:

N/Ap:	Not Applicable	ND:	Not Determined
N/R:	Not Rated	NDA:	No Data Available
ACGI:	American Conference of Govr'ntal Industrial Hygienists	TLV:	Threshold Limit Value
OSHA:	Occupational Safety and Health Administration	TWA:	Time Weighted Average
PEL:	Permissible Exposure Limit	NTP:	National Toxicology Program
STEL:	Short Term Exposure Limit	TSCA:	Toxic Substance Control Act
IARC:	International Agency for Research on Cancer	CERCLA:	Comprehensive Response, Compensation and Liability Act
SARA Title III:	Superfund Amendments and Reauthorization Act	CWA:	Clean Water Act
CAA:	Clean Air Act		
RCRA:	Resource Conservation Recovery Act	IMO:	International Maritime Organization Shipping Info.
IATA:	International Air Transport Association Shipping Info.	WHMIS:	Workplace Hazardous Materials Information System
DSL:	Domestic Substance List (Canada)		

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