

# SAFETY DATA SHEET



Revision date 01-Jul-2025

Revision Number 1

## 1. Identification

### Product identifier

**Product Name** UltraPHOSx 3000

### Other means of identification

**Product Code(s)** 3264T

**UN number or ID number** UN1819

**Synonyms** Liquid sodium aluminate

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

**Recommended use** Coagulating and Flocculating agent. Phosphorous removal.

**Restrictions on use** None known.

### Details of the supplier of the safety data sheet

#### Supplier Address

USALCO, LLC  
2601 Cannery Ave.  
Baltimore, MD 21226  
+1-800-453-2586 Hours: Monday - Friday  
9:00 - 5:00 CST (Central Standard Time)  
Hours: Monday-Friday 9:00-5:00 CST  
(Central Standard Time)

#### Manufacturer Address

USALCO, LLC  
2601 Cannery Ave.  
Baltimore, MD 21226

**Contact Point** sds@usalco.com

**Emergency Telephone** CHEMTREC: (800) 424-9300  
Outside USA - +1 (703) 527-3887 collect calls accepted

## 2. Hazard(s) identification

### Classification

Skin corrosion/irritation	Category 1 Sub-category A
Serious eye damage/eye irritation	Category 1
Corrosive to metals.	Category 1

### Hazards not otherwise classified (HNOC)

Not applicable.

### Label elements

**DANGER**

### Hazard statements

May be corrosive to metals.  
Causes severe skin burns and eye damage.  
Causes serious eye damage.



**Appearance** Clear to slightly hazy

**Physical state** Liquid

**Odor** No appreciable odor

#### Precautionary Statements - Prevention

Keep only in original packaging.  
Do not breathe dust/fume/gas/mist/vapors/spray.  
Wash hands, face and any exposed skin thoroughly after handling. Do not touch eyes.  
Wear protective gloves/protective clothing/eye protection/face protection.

#### Precautionary Statements - Response

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
IF ON SKIN: Take off immediately all contaminated clothing. Immediately rinse with water for several minutes. Specific treatment (See Section 4. First aid measures – Skin contact).  
IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.  
Get emergency medical help immediately.  
Wash contaminated clothing before reuse.  
Absorb spillage to prevent material damage.

#### Precautionary Statements - Storage

Store locked up.  
Store in corrosive resistant container with a resistant inner liner.

#### Precautionary Statements - Disposal

Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable.

**Unknown acute toxicity** 32% of the mixture consists of ingredient(s) of unknown toxicity

#### Other information

May be harmful if swallowed.

### 3. Composition/information on ingredients

#### Substance

**Synonyms** Liquid sodium aluminate.

Chemical name	CAS No	Weight-%	Trade secret
Trade secret	Trade secret	30 - 40%	*
Trade secret	Trade secret	0 - 10%	*

\*The exact percentage (concentration) of composition has been withheld as a trade secret. While some components are claimed as trade secret in accordance with the provision of OSHA 29 CFR 1910.1200(i), all known hazards are clearly communicated within this document.

### 4. First-aid measures

#### Description of first aid measures

**General advice** Get medical attention if irritation or other symptoms occur. Show this safety data sheet to

the doctor in attendance.

<b>Inhalation</b>	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, (trained personnel should) give oxygen. Call physician immediately.
<b>Eye contact</b>	Remove contact lenses, if worn. Immediately flush with plenty of water for at least 15 minutes, holding eyelids apart to ensure flushing of the entire surface. Washing within one minute is essential to achieve maximum effectiveness. Seek medical attention if irritation should develop.
<b>Skin contact</b>	Immediately flush skin with plenty of soap and water for at least 15 minutes. Remove contaminated clothing and footwear. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.
<b>Ingestion</b>	Do not induce vomiting. Give large amounts of water followed by milk if available. If vomiting should occur spontaneously, keep airway clear. Get medical attention. Never give anything by mouth to an unconscious person.
<b>Self-protection of the first aider</b>	Wear personal protective clothing (see section 8).

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

<b>Symptoms</b>	Depending on the concentration, repeated ingestion may cause effects as with acute exposure. Effects depend on concentration and duration of exposure. Repeated or prolonged skin contact may result in dermatitis or effects similar to acute exposure. Repeated exposure by inhalation may cause inflammatory ulcerative changes to the mouth and possibly bronchial and gastrointestinal disturbances. Repeated or prolonged eye contact may result in conjunctivitis or effects similar to acute exposure. Inhalation of corrosive substances may cause irritation of the respiratory tract with coughing, choking, pain and possible burns of the mucus membrane. In some cases pulmonary edema may develop, either immediately or more often within a period of 5-72 hours. The symptoms may include tightness in the chest, frothy sputum cyanosis, and dizziness. Physical findings may include low blood pressure and high pulse. Severe cases may be fatal. Eye and skin contact may cause severe irritation, pain and burns. Ingestion may cause immediate pain and severe burns of the mucous membrane. There may be discoloration of the tissues. Swallowing and speech may be difficult at first and then almost impossible. The effects on the esophagus and gastrointestinal tract may range from irritation to severe corrosion. Edema of the epiglottis and shock may occur.
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#### **Indication of any immediate medical attention and special treatment needed**

<b>Note to physicians</b>	Aluminum soluble salts may cause gastroenteritis if ingested. Treatment includes the use of demulcents. Note: Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.
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## **5. Fire-fighting measures**

<b>Suitable Extinguishing Media</b>	Not combustible. Use appropriate extinguishing media for material that is supplying fuel. Use water spray to cool the surrounding area and maintain fire temperature below decomposition temperature. Water Spray, Carbon Dioxide, Foam, Dry Chemical.
<b>Large Fire</b>	CAUTION: Use of water spray when fighting fire may be inefficient.
<b>Unsuitable extinguishing media</b>	None known.
<b>Specific hazards arising from the chemical</b>	May produce hazardous fumes or hazardous decomposition products.
<b>Explosion data</b>	
<b>Sensitivity to mechanical impact</b>	None.
<b>Sensitivity to static discharge</b>	None.
<b>Special protective equipment for fire-fighters</b>	Full protective clothing and approved self-contained breathing apparatus required for firefighting personnel.

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

<b>Personal precautions</b>	Wear suitable protective clothing and gloves.
<b>Other information</b>	Do not allow liquid to enter streams or waterways.

### Methods and material for containment and cleaning up

<b>Methods for containment</b>	Prevent further leakage or spillage if safe to do so. Build dikes as necessary to contain flow of large spills. Do not allow liquid to enter streams or waterways.
<b>Methods for cleaning up</b>	Clear spills immediately. For small spills, neutralize with weak acidic material such as vinegar, an inert material to absorb, or wash product to a chemical sewer. Place contaminated materials into containers and store in a safe place to await proper disposal.

## 7. Handling and storage

### Precautions for safe handling

<b>Advice on safe handling</b>	Keep container closed when not in use. Keep away from open flames, hot surfaces and sources of ignition. Avoid contact with eyes, skin and clothing. Wear chemical splash goggles, gloves, and protective clothing when handling. Wash thoroughly after handling. Do not breathe mist or spray. Use with adequate ventilation and employ respiratory protection where mist or spray may be generated. Do not take internally. FOR INDUSTRIAL USE ONLY.
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### Conditions for safe storage, including any incompatibilities

<b>Storage Conditions</b>	Keep container tightly closed when not in use. Store in a cool, dry place away from direct heat.
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## 8. Exposure controls/personal protection

### Control parameters

<b>Exposure Limits</b>	Exposure limits have not been established for this product.
	OSHA permissible exposure limits (PELs), as found in Tables Z-1, Z-2, and Z-3 of the OSHA General Industry Air Contaminants Standard (29 CFR 1910.1000) for soluble aluminum salts listed below:

Aluminum (soluble salts & alkyls, as Al), TWA 2 mg/m<sup>3</sup>

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Trade secret	Ceiling: 2 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup> (vacated) Ceiling: 2 mg/m <sup>3</sup>	IDLH: 10 mg/m <sup>3</sup> Ceiling: 2 mg/m <sup>3</sup>

### **Biological occupational exposure limits**

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

### **Appropriate engineering controls**

<b>Engineering controls</b>	Local exhaust ventilation as necessary to maintain exposures to within applicable limits. Please refer to the ACGIH document, 'Industrial Ventilation, A Manual of Recommended Practices', most recent edition, for details. If there are no applicable or established exposure limit requirements or guidelines, general ventilation should be sufficient.
<b>Individual protection measures, such as personal protective equipment</b>	
<b>Eye/face protection</b>	Wear chemical splash goggles and face shield (when eye and face contact is possible due to splashing or spraying of material).
<b>Hand protection</b>	Appropriate chemical resistant gloves should be worn.
<b>Skin and body protection</b>	Standard work clothing and work shoes.
<b>Respiratory protection</b>	If exposures exceed the PEL or TLV, use NIOSH/MSHA approved respirator in accordance with OSHA Respiratory Protection Requirements under 29 CFR 1910.134. If there are no applicable or established exposure limit requirements or guidelines, general ventilation should be sufficient.
<b>Environmental exposure controls</b>	Do not allow liquid to enter streams or waterways.
<b>General hygiene considerations</b>	Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash it before reuse. Ensure that eyewash stations and safety showers are close to the workstation location.

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

<b>Physical state</b>	Liquid
<b>Appearance</b>	Clear to slightly hazy
<b>Color</b>	Amber
<b>Odor</b>	No appreciable odor
<b>Odor threshold</b>	Not applicable.

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
<b>pH</b>	~ 14	
<b>Melting point / freezing point</b>	< -32.2 °C (< -26 °F)	
<b>Boiling point / boiling range</b>	116 °C (241 °F)	
<b>Flash point</b>	Not applicable. No data available	
<b>Evaporation rate</b>	No data available.	
<b>Flammability (solid, gas)</b>	Not applicable. No data available.	
<b>Flammability Limit in Air</b>		None known.
<b>Upper flammability or explosive limits</b>	No data available.	
<b>Lower flammability or explosive limits</b>	No data available.	
<b>Vapor pressure</b>	No data available.	
<b>Relative vapor density</b>	No data available.	
<b>Relative density</b>	1.44 - 1.50	None known.
<b>Water solubility</b>	Partially soluble Insoluble between pH 5 - 9	
<b>Solubility(ies)</b>	Partially soluble in water.	None known.
<b>Partition coefficient</b>	No data available.	None known.
<b>Autoignition temperature</b>	Not applicable. No data available	None known.
<b>Decomposition temperature</b>	-	No data available.
<b>Kinematic viscosity</b>	No data available.	
<b>Dynamic viscosity</b>	25 - 75 cps	Brookfield @ 25 °C

### Other information

<b>Explosive properties</b>	Not an explosive.
<b>Oxidizing properties</b>	Not expected to be oxidizing based on the chemical structure.
<b>VOC Content (%)</b>	No information available
<b>Liquid Density</b>	12.0 - 12.5 lbs./gal.

## 10. Stability and reactivity

<b>Reactivity</b>	No data available.
<b>Chemical stability</b>	Stable under normal conditions of handling, use and transportation.
<b>Possibility of hazardous reactions</b>	None under normal processing.
<b>Hazardous polymerization</b>	Not anticipated under normal or recommended handling and storage conditions.
<b>Conditions to avoid</b>	None known based on information supplied.
<b>Incompatible materials</b>	Strong acids.
<b>Hazardous decomposition products</b>	Thermal decomposition may release toxic and/or hazardous gases.

## 11. Toxicological information

### Information on likely routes of exposure

<b>Product Information</b>	Specific test data for the substance or mixture is not available.
<b>Inhalation</b>	Inhalation of mist or spray may irritate respiratory tract and may cause burns and difficulty breathing.
<b>Eye contact</b>	Direct contact may cause irritation, pain and burns, possibly severe. May result in permanent blindness. The degree of injury depends on the concentration and duration of contact. The full extent of the injury may not be immediately apparent.
<b>Skin contact</b>	Corrosive to skin. Direct contact may cause severe irritation, pain and possibly burns.
<b>Ingestion</b>	Causes burns of the mouth, throat and stomach. Will cause burns of mucous membranes of gastrointestinal tract, with nausea, vomiting and diarrhea.

### Symptoms related to the physical, chemical and toxicological characteristics

<b>Symptoms</b>	Burning. Itching. Rashes. Redness. Blindness. Coughing and/ or wheezing. Difficulty in breathing. Pain or irritation. Blistering may occur. Abdominal pain. Nausea and vomiting. Causes serious eye damage.
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### Acute toxicity

#### **Numerical measures of toxicity**

No information available

The following values are calculated based on chapter 3.1 of the GHS document .

<b>ATEmix (oral)</b>	2,762.50 mg/kg
<b>ATEmix (dermal)</b>	11,475.00 mg/kg

**Unknown acute toxicity** 32% of the mixture consists of ingredient(s) of unknown toxicity

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Trade secret	= 325 mg/kg ( Rat )	= 1350 mg/kg ( Rabbit )	-

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

<b>Skin corrosion/irritation</b>	May cause burns.
<b>Serious eye damage/eye irritation</b>	Risk of serious damage to eyes.
<b>Respiratory or skin sensitization</b>	No data available.

<b>Germ cell mutagenicity</b>	No data available.
<b>Carcinogenicity</b>	This product does not contain any components in concentrations greater than or equal to 0.1% that are listed as known or suspected carcinogens by NTP, IARC, ACGIH, or OSHA.
<b>Reproductive toxicity</b>	No data available.
<b>Developmental toxicity</b>	No data available.
<b>STOT - single exposure</b>	No data available.
<b>STOT - repeated exposure</b>	No data available.
<b>Target organ effects</b>	Eyes, Skin, Gastrointestinal tract (GI), Respiratory system.
<b>Aspiration hazard</b>	No data available.
<b>Other adverse effects</b>	None known.
<b>Interactive effects</b>	None known.

## 12. Ecological information

**Ecotoxicity** The environmental impact of this product has not been fully investigated.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Trade secret	--	LC50 (96 h static) = 45.4 mg/L (Oncorhynchus mykiss)	-	-

<b>Persistence and degradability</b>	Not determined.
<b>Bioaccumulation</b>	There is no data for this product.
<b>Mobility</b>	Not determined.
<b>Other adverse effects</b>	No information available.

## 13. Disposal considerations

### Waste treatment methods

<b>Waste from residues/unused products</b>	Disposal should be in accordance with applicable regional, national and local laws and regulations. Dispose of in accordance with federal, state and local regulations.
<b>Contaminated packaging</b>	Since empty containers retain product residue, follow label warnings even after container is emptied.
<b>US EPA Waste Number</b>	D002 (Corrosivity).

## 14. Transport information

**DOT** Regulated

**UN number or ID number** UN1819  
**Proper shipping name** Sodium Aluminate Solution  
**Transport hazard class(es)** 8  
**Packing group** II  
**Emergency Response Guide Number** 154

**TDG** Regulated  
**UN number or ID number** UN1819  
**UN proper shipping name** Sodium Aluminate Solution  
**Transport hazard class(es)** 8  
**Packing group** II

#### Technical Name

**IATA** Regulated  
**UN number or ID number** UN1819  
**UN proper shipping name** Sodium Aluminate Solution  
**Transport hazard class(es)** 8  
**Packing group** II  
**ERG Code** 8L

**IMDG** Regulated  
**UN number or ID number** UN1819  
**UN proper shipping name** Sodium Aluminate Solution  
**Transport hazard class(es)** 8  
**Packing group** II  
**EmS-No** F-A; S-B

## 15. Regulatory information

### International Inventories

**TSCA** All ingredients are on the inventory or exempt from listing.

Chemical name	CAS No	US TSCA Inventory listing	US TSCA inactive/active designation
Water	7732-18-5	Present	Active
Trade secret	-	Present	Active
Trade secret	-	Present	Active

**DSL/NDSL** All ingredients are on the DSL inventory or exempt from listing. None of the ingredients are on the NDSL inventory.

**EINECS/ELINCS** All ingredients are on the EINECS inventory or are exempt from listing. None of the ingredients are on the ELINCS inventory.

**ENCS** All ingredients are on the inventory or exempt from listing.

**IECSC** All ingredients are on the inventory or exempt from listing.

**KECL** All ingredients are on the inventory or exempt from listing.

**PICCS** All ingredients are on the inventory or exempt from listing.

**AICS** All ingredients are on the inventory or exempt from listing.

#### Legend:

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**AICS** - Australian Inventory of Chemical Substances

### US Federal Regulations

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

#### **SARA 311/312 Hazard Categories**

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

#### **CWA (Clean Water Act)**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Trade secret	1000 lb	-	-	X

#### **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	Reportable Quantity (RQ)
Trade secret	1000 lb	-	RQ 1000 lb final RQ RQ 454 kg final RQ

### US State Regulations

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

#### **U.S. State Right-to-Know Regulations**

Chemical name	New Jersey	Massachusetts	Pennsylvania
Trade secret	X	X	X

### U.S. EPA Label Information

**EPA Pesticide Registration Number** Not applicable.

## **16. Other information**

<b>NFPA</b>	<b>Health hazards</b> 3	<b>Flammability</b> 0	<b>Instability</b> 0	<b>Special hazards</b>
<b>HMIS</b>	<b>Health hazards</b> 3	<b>Flammability</b> 0	<b>Physical hazards</b> 0	<b>Personal protection</b> X

#### **Key or legend to abbreviations and acronyms used in the safety data sheet**

##### **Legend Section 8: Exposure controls/personal protection**

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

#### **Key literature references and sources for data used to compile the SDS**

Agency for Toxic Substances and Disease Registry (ATSDR)  
 U.S. Environmental Protection Agency ChemView Database  
 European Food Safety Authority (EFSA)

EPA (Environmental Protection Agency)  
Acute Exposure Guideline Level(s) (AEGl(s))  
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act  
U.S. Environmental Protection Agency High Production Volume Chemicals  
Food Research Journal  
Hazardous Substance Database  
International Uniform Chemical Information Database (IUCLID)  
Japan GHS Classification  
Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)  
NIOSH (National Institute for Occupational Safety and Health)  
National Library of Medicine's ChemID Plus (NLM CIP)  
National Library of Medicine's PubMed database (NLM PUBMED)  
National Toxicology Program (NTP)  
New Zealand's Chemical Classification and Information Database (CCID)  
Organization for Economic Co-operation and Development Environment, Health, and Safety Publications  
Organization for Economic Co-operation and Development High Production Volume Chemicals Program  
Organization for Economic Co-operation and Development Screening Information Data Set  
World Health Organization

**Revision date** 01-Jul-2025

**Revision Note**

**Disclaimer**

**The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.**

**End of Safety Data Sheet**