



Trisodium Phosphate (AFCO 8696)

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision Date: 10/11/2024

Version: 1.1

SECTION 1: IDENTIFICATION

Product Identifier

Product Form: Mixture

Product Name: Trisodium Phosphate

Product Code: AFCO 8696

Intended Use of the Product

Use of the Substance/Mixture: Water treatment compound. For professional use only.

Name, Address, and Telephone of the Responsible Party

Company

AFCO

550 Development Avenue

Chambersburg, PA 17201

T: 800-345-1329

www.afcocare.com

Emergency Telephone Number

Emergency Number : 1-800-424-9300 (CHEMTREC)

SECTION 2: HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

Classification (GHS-US)

Skin Irrit. 2 H315

Eye Irrit. 2A H319

STOT SE 3 H335

Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US)

:



GHS07

Signal Word (GHS-US)

:

Warning

Hazard Statements (GHS-US)

:

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H335 - May cause respiratory irritation

Precautionary Statements (GHS-US)

:

P261 - Avoid breathing dust.

P280 - Wear protective gloves, eye protection, face protection.

P302+P352 - IF ON SKIN: Wash with plenty of soap and water.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332+P313 - If skin irritation occurs: Get medical advice/attention.

P337+P313 - If eye irritation persists: Get medical advice/attention.

Other Hazards

Other Hazards Not Contributing to the Classification: Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions.

Unknown Acute Toxicity (GHS-US) Not available.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substances

Name	Product identifier	% (w/w)	Classification (GHS-US)
Trisodium phosphate dodecahydrate	(CAS No) 10101-89-0	98	Skin Irrit. 2, H315 Eye Irrit. 2A, H319

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			STOT SE 3, H335
Sodium hydroxide	(CAS No) 1310-73-2	1.8-2.0	Met. Corr. 1, H290 Skin Corr. 1A, H314 Eye Dam. 1, H318 Aquatic Acute 3, H402

Full text of H-phrases: see section 16.

SECTION 4: FIRST AID MEASURES

Description of First Aid Measures

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

Inhalation: Immediate first aid is not likely to be required, however if symptoms occur, remove to fresh air. If signs/symptoms continue, get medical attention.

Skin Contact: Immediately flush area with plenty of water. Remove contaminated clothing. Wash contaminated clothing before reuse. Get medical attention if irritation occurs.

Eye Contact: Immediately flush eyes with plenty of water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.

Ingestion: Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Give water to dilute chemical. Immediately call a POISON CENTER or doctor/physician.

Most Important Symptoms and Effects Both Acute and Delayed

General: Causes skin irritation and serious eye irritation.

Inhalation: Not likely to cause any symptoms or effects.

Skin Contact: Causes skin irritation.

Eye Contact: Causes serious eye irritation.

Ingestion: Not likely to cause any symptoms or effects.

Chronic Symptoms: Not likely to cause any symptoms or effects.

Indication of Any Immediate Medical Attention and Special Treatment Needed

If you feel unwell, seek medical advice (show the label where possible).

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Use extinguishing media appropriate for surrounding fire.

Unsuitable Extinguishing Media: No special requirement.

Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not flammable.

Explosion Hazard: Product is not explosive.

Reactivity: None.

Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: None.

Protection During Firefighting: Firefighters should wear self-contained breathing apparatus.

Hazardous Combustion Products: None.

Reference to Other Sections

Refer to section 9 for flammability properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Do not get in eyes, on skin, or on clothing. Avoid generating dust.

For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: None.

For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: None.

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Environmental Precautions

Prevent entry to sewers and public waters.

Methods and Material for Containment and Cleaning Up

Methods for Cleaning Up: In case of spill, sweep, scoop or vacuum and remove. Flush residual spill area with water.

Reference to Other Sections

See heading 8, Exposure Controls and Personal Protection.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling

Additional Hazards When Processed: None.

Hygiene Measures: Do not get in eyes, on skin, or clothing. Avoid breathing dust. Use with adequate ventilation. Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work. Do not eat, drink or smoke when using this product.

Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations. Use with adequate ventilation.

Storage Conditions: Store in tightly closed container. Store in cool, dry area. Avoid moisture. Keep container closed when not in use.

Incompatible Materials: This material could be corrosive to aluminum surfaces because of high pH.

Specific End Use(s)

Water treatment compound. For professional use only.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Particles not otherwise regulated		
USA ACGIH TLV	ACGIH 8-hr TWA(mg/m ³) as inhalable	10 mg/m ³
USA ACGIH TLV	ACGIH 8-hr TWA (mg/m ³) as respirable	3 mg/m ³
OSHA PEL	OSHA 8-hr TWA (mg/m ³) as total dust	15 mg/m ³
OSHA PEL	OSHA 8-hr TWA (mg/m ³) as respirable	5 mg/m ³
Sodium hydroxide (1310-73-2)		
Mexico	OEL Ceiling (mg/m ³)	2 mg/m ³
USA ACGIH	ACGIH Ceiling (mg/m ³)	2 mg/m ³
USA OSHA	OSHA PEL (TWA) (mg/m ³)	2 mg/m ³
USA NIOSH	NIOSH REL (ceiling) (mg/m ³)	2 mg/m ³
USA IDLH	US IDLH (mg/m ³)	10 mg/m ³
Ontario	OEL Ceiling (mg/m ³)	2 mg/m ³
Québec	PLAFOND (mg/m ³)	2 mg/m ³

Exposure Controls

Appropriate Engineering Controls: Provide natural or mechanical ventilation to minimize exposure. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Maintain adequate ventilation to keep concentrations of airborne contaminants below applicable threshold limits.

Personal Protective Equipment: Goggles. Rubber gloves.



Materials for Protective Clothing: None usually needed.

Hand Protection: Rubber gloves.

Eye Protection: Goggles.

Skin and Body Protection: None usually needed.

Respiratory Protection: None usually needed.

Environmental Exposure Controls: Do not allow the product to be released into the environment.

Consumer Exposure Controls: Do not eat, drink or smoke during use.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State	: Solid
Appearance	: White, crystalline, free-flowing granules or powder
Odor	: None
Odor Threshold	: Undetermined
pH(1%)	: 12.0
Relative Evaporation Rate (butylacetate=1)	: Not available
Melting Point	: Not available
Freezing Point	: Not available
Boiling Point	: Not available
Flash Point	: Not flammable
Auto-ignition Temperature	: Not available
Decomposition Temperature	: Not available
Flammability (solid, gas)	: Not flammable
Lower Flammable Limit	: Not available
Upper Flammable Limit	: Not available
Vapor Pressure	: Not available
Relative Vapor Density at 20°C	: Not available
Specific Gravity	: Not available
Solubility	: 21g/100g saturated solution @ 25°C
Partition coefficient: n-octanol/water	: Not available
Viscosity	: Not available
Explosion Data – Sensitivity to Mechanical Impact	: Not expected to present an explosion hazard due to mechanical impact.
Explosion Data – Sensitivity to Static Discharge	: Not expected to present an explosion hazard due to static discharge.

SECTION 10: STABILITY AND REACTIVITY

Reactivity: No data available.

Chemical Stability: Stable under recommended handling and storage conditions (see section 7).

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

Conditions to Avoid: None known.

Incompatible Materials: This material could be corrosive to aluminum surfaces because of high pH.

Hazardous Decomposition Products: None known.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects – Product

Acute Toxicity: Not classified.

LD50 and LC50 Data:

Trisodium Phosphate (AFCO 8696)	
LD50 Oral Rat	6500 mg/kg
LD50 Dermal Rabbit	>7940 mg/kg

Skin Corrosion/Irritation: Causes skin irritation.

Serious Eye Damage/Irritation: Causes serious eye irritation.

Respiratory or Skin Sensitization: Not classified.

Germ Cell Mutagenicity: Not classified.

Teratogenicity: Not classified.

Carcinogenicity: Not classified.

Specific Target Organ Toxicity (Repeated Exposure): Not classified.

Reproductive Toxicity: Not classified.

Specific Target Organ Toxicity (Single Exposure): Not likely to cause any symptoms or effects.

Aspiration Hazard: Not classified.

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Symptoms/Injuries After Inhalation: Not likely to cause any symptoms or effects.

Symptoms/Injuries After Skin Contact: Causes skin irritation.

Symptoms/Injuries After Eye Contact: Causes serious eye irritation.

Symptoms/Injuries After Ingestion: Not classified.

Chronic Symptoms: Not classified.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Trisodium Phosphate (AFCO 8696)	
LC50 Fish 1	440 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus)
LC50 Fish 2	260 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
EC50	>1000 mg/l (48 h - Species: Daphnia magna)

Persistence and Degradability Not available.

Bioaccumulative Potential Not available.

Mobility in Soil Not available.

Other Adverse Effects

Other Information: Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

Ecology – Waste Materials: Not classified.

SECTION 14: TRANSPORT INFORMATION

14.1 In Accordance with DOT

If shipping package is less than 5000 lbs.:

NOT REGULATED

If shipping package is equal to or more than 5000 lbs.:

Proper Shipping Name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (sodium phosphate, tribasic)
Hazard Class : 9
Identification Number : UN3077
Label Codes : 9
Packing Group : III



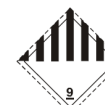
14.2 In Accordance with IMDG

Proper Shipping Name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (sodium phosphate, tribasic)
Hazard Class : 9
Identification Number : UN3077
Packing Group : III
Label Codes : 9



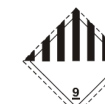
14.3 In Accordance with IATA

Proper Shipping Name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (sodium phosphate, tribasic)
Packing Group : III
Identification Number : UN3077
Hazard Class : 9
Label Codes : 9



14.4 In Accordance with TDG

Proper Shipping Name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (sodium phosphate, tribasic)
Packing Group : III
Hazard Class : 9
Identification Number : UN3077
Label Codes : 9



SECTION 15: REGULATORY INFORMATION

US Federal Regulations

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SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard.
Trisodium phosphate dodecahydrate (10101-89-0)	
CAS Number 10101-89-0 is not on the TSCA Inventory because it is a hydrate. It is considered to be listed if the CAS # for the anhydrous form is on the inventory. CAS # 7601-54-9 (anhydrous TSP) is on the inventory.	
Sodium hydroxide (1310-73-2)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory.	

US State Regulations:

Sodium hydroxide (1310-73-2)
U.S. - California - SCAQMD - Toxic Air Contaminants - Non-Cancer Acute U.S. - California - Toxic Air Contaminant List (AB 1807, AB 2728) U.S. - New Jersey - Discharge Prevention - List of Hazardous Substances U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - New Jersey - Special Health Hazards Substances List U.S. - New York - Occupational Exposure Limits - TWAs U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List U.S. - Pennsylvania - RTK (Right to Know) List U.S. - Texas - Effects Screening Levels - Long Term U.S. - Texas - Effects Screening Levels - Short Term

Canadian Regulations

Trisodium phosphate dodecahydrate (10101-89-0)
Listed on the Canadian DSL (Domestic Substances List) inventory.
Sodium hydroxide (1310-73-2)
Listed on the Canadian DSL (Domestic Substances List) inventory.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Revision date	: 10/11/2024
Other Information	: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

GHS Full Text Phrases:

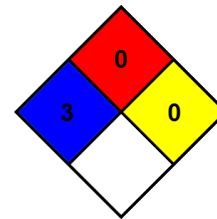
Aquatic Acute 3	Hazardous to the aquatic environment - Acute Hazard Category 3
Eye Damage 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Met. Corr. 1	Corrosive to metals Category 1
Skin Corr 1A	Skin corrosion/irritation Category 1A
Skin Irrit 2	Skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H290	May be corrosive to metals
H315	Causes skin irritation
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage.
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H402	Harmful to aquatic life

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- NFPA Health Hazard** : 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.
- NFPA Fire Hazard** : 0 - Materials that will not burn.
- NFPA Reactivity** : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



HMIS III Rating

- Health** : 3 Serious Hazard - Major injury likely unless prompt action is taken, and medical treatment is given.
- Flammability** : 0 - Minimal Hazard.
- Physical** : 0 - Minimal Hazard.

Party Responsible for the Preparation of This Document

AFCO
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Chambersburg, PA 17201
T: 800-345-1329

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

North America GHS SDS 2015 (U.S., Can., Mex.)