Disodium Phosphate, Anhydrous, FCC Grade

SAFETY DATA SHEET

SDS#: **1154**

Review/Revision Date:

SECTION 1 - General Information And Chemical Product Identification

Trade Name: Disodium Phosphate, Anhydrous, FCC Grade

CAS #: 7558-79-4

Chemical Name: Sodium Phosphate, Dibasic

Product Code: DSPFGESC

Application/Uses/ Used to adjust pH in water treatment

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)

Not a hazardous substance or mixture.

Physical Hazards

None

Hazard Statement

NONE

GHS Precautionary Statements - Prevention, Response, Storage, Disposal

None

No label elements required

PREVENTION: Not Applicable

RESPONSE: Not Applicable

STORAGE: Not Applicable

DISPOSAL: Not Applicable

OSHA Defined Hazards

This product does NOT contain any products considered hazardous under the Federal OSHA HazCom. Standard 29 CFR 1910.1200.

HNOC - Hazards Not Otherwise Classified

No other hazards classified

Signal Word

None

SECTION 3 Composition/information On Ingredients

Molecular Weight: 141.96 **Chemical FORMULA:** Na_2HPO_4

CAS#:	Common Name/Synonyms:	% by Wt.
7558-79-4	Sodium Phosphate, Dibasic	100%

SECTION 4 - First Aid Information

Description of first aid measures

General Advice:

No hazardous which require special first aid measures.

If Inhaled:

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:

In case of contact, immediately wash with plenty of soap and water for at least 5 minutes. Seek medical attention if irritation develops or persists. Remove contaminated clothing and shoes. Clean contaminated clothing and shoes before reuse.

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 used at this time. Get medical attention if eye irritation occurs.

If Swallowed:

If victim is conscious and alert, give 2-3 glasses of water to drink and do not induce vomiting. **Never give anything to eat or drink to someone who is unconscious, having convulsions, or unable to swallow.** Seek medical attention if health effects occur. Do not leave victim unattended. To prevent aspiration of swallowed product, lay victim on side with head lower than waist. Vomiting may occur spontaneously. If vomiting occurs and the victim is conscious, give water to further dilute the chemical.

Most important symptoms and effects, both acute and delayed:

ACUTE: At high dust concentrations, irritation of eyes, skin, nose and upper respiratory tract by chemical or mechanical action may occur.
Skin: May cause irritation **Eye:** Irritation and possible damage **Inhalation:** Dust may cause irritation of respiratory tract and symptoms of bronchitis may result. **Ingestion**: May result in irritation of mouth, throat and stomach **CHRONIC**: None Found

Indication of any immediate medical attention and special treatment needed:

Treat symptomatically. No specific product related symptoms are known.

SECTION 5 - Fire And Explosion Data

Suitable Extinguishing Media:

Not combustible. Use extinguishing method suitable for surrounding fire.

UnSuitable Extinguishing Media:

None known - In contact with water, this material may react with common metals aluminum, zinc and galvanized iron) and form flammable hydrogen gas.

Specific Hazards arising from the chemical:

Hazardous combustion products: Oxides of phosphorous and sodium oxide.

Special protective equipment and precautions for fire-fighters:

Fire fighters should wear NIOSH/MSHA approved self contained breathing apparatus (SCBA) and full protective clothing.

Fire-fighting equipment/instructions

As in any fire, prevent human exposure to fire, smoke, fumes or products of combustion. Evacuate nonessential personnel from the fire area.
Do NOT allow fire fighting water to reach waterways, drains or sewers. Store fire fighting water for treatment.

Specific Methods

Standard procedure for chemical fires.

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:

Do not touch or walk through spilled material. Keep Unauthorized personnel away. After wearing and using recommended protective equipment, stop source of spill if safe to do so and dike area to contain spill. See Section 8 for personal protective equipment.

Environmental Precautions:

Dike or retain dilution water or water from fire fighting for later disposal. Large Spills may need to be reportable to the National Response Center (800 -424-8802) and to state and/or local agencies.

Methods and Materials for Containment and Clean Up:

Stop source of spill if safe to do so. Sweep up spilled solid material, being careful not to create dust. Use clean non-sparking tools and equipment. Return sweeping to stock or, if contaminated, place into a chemical waste container for disposal. Wash away residue with water, without contaminating drains. Soak up wash water with suitable absorbent or sand, sweep up and dispose of in accordance with local regulations.

Section 7- Handling and Storage

Precautions for safe handling:

Avoid direct of prolonged contact with skin and eyes. Avoid breathing dust. Use appropriate personal protective equipment as specified. Handle in a well ventilated area. Handle and use in a manner consistent with good industrial/manufacturing techniques and practices.

Conditions for safe storage:

Product is hygroscopic and tends to cake on storage. Store in an area that is cool, dry and isolated from all toxic and harmful substances. Store in a well-ventilated place. Keep container tightly closed. No special packaging material known.

Incompatibilites:

This material is incompatible with strong acids, antipyrene, chloral hydrate, lead acetate, resorcinol and pyrogallol. In solid form Disodium Phosphate may be mildly corrosive to steel, brass and aluminum. In solutions, this material may react with common metals aluminum, zinc and galvanized iron) and form flammable hydrogen gas.

Section 8 - Exposure Control and Personal Protection

Occupational Exposure Limits:

Chemical Identity:	CAS #:	Exposure Limit Values		SOURCE	OSHA/PPM
		TWA	STEL		PEL
Sodium Phosphate, Dibasic	7558-79-4	15/mg	N/E	ACGIH Threshold Limit Values	None
				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 OSHA and ACGIH have not established specific exposure limits for this material. However OSHA and ACGIH have established limits for particulates not

Individual Protection Measures, (Personal Protective Equipment):

Eye Protection

Wear safety glasses. Appropriate ANSI Z87 approved equipment should be selected for the particular use intended for this material. Use of faceshields is recommended if solutions of Disodium Phosphate are handled.

Skin Protection

Skin contact should be prevented through use of suitable protective clothing, gloves made with Nitrile rubber and footwear, selected with regard for use conditions and exposure potential. Consideration must be given both to durability as well as permeation resistance.

Other Protection:

Minimize breathing dust. Avoid prolonged or repeated breathing of dust and contact with skin. Remove contaminated clothing; launder before reuse. Cleanse skin thoroughly after contact, before meals and end of work period.

Respiratory Protection

For limited exposure use an N95 dust mask. For prolonged exposure use an air- purifying respirator with high efficiency particulate air (HEPA) filters. Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or symptoms are experienced.

Ventilation Limits:

Where engineering controls are indicated by use conditions or a potential for excessive exposure exists, the following traditional exposure control techniques may be used to effectively minimize employee exposures: local exhaust ventilation at the point of generation. Local exhaust recommended, mechanical exhaust acceptable.

Hygienic Practices:

Minimize breathing dust. Avoid prolonged or repeated breathing of dust and contact with skin. All food and smoking materials should be kept in a separate area away from the storage/use location. Before eating, drinking or smoking, hands and face should be thoroughly washed. Facilities storing or using this material should be equipped with an eyewash and safety shower.

Section 9 - Physical and Chemical Properties

Appearance And Odor: White crystalline solid, odorless

pH: 9.3%

Melting Point:	Decomposition: 250°C	**Flammable Limits:**	No data available
Freezing Point:	No data available	**UEL:**	No data available
Boiling Point:	No data available	**LEL:**	No data available
Flash Point:	No data available	**Vapor Pressure(mm/hg):**	Zero
Evaporation Rate:	No data available	**Vapor Density(air=1):**	No data available
Solubilities:	11 wt/wt% at 25 deg C (77 deg F)	**Autoignition Temp:**	No data available
Specific Gravity:	2.066 (H2O = 1)	**Decomposition Temp:**	No data available
Bulk Density:	0.7-0.8 g/cm3	**Reactivity In Water:**	No data available
Other Information:		**Viscosity:**	No data available

Section 10 - Stability and Reactivity

Chemical Stability and Reactivity:

This material is stable under normal handling and storage conditions.

Possible Hazardous Reactions:

Hazardous polymerization will not occur.

Conditions to Avoid:

Dusting conditions, Extreme heat, rain, extreme humidity.

Incompatible Materials:

This material is incompatible with strong acids, antipyrene, chloral hydrate, lead acetate, resorcinol and pyrogallol. In solid form Disodium Phosphate may be mildly corrosive to steel, brass and aluminum. In solutions, this material may react with common metals aluminum, zinc and galvanized iron)

Hazardous Decomposition Products:

Oxides of sodium, oxides of phosphorus. decomposition temperature range: 240°C or 464°F

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:

May cause irritation to respiratory tract.

Skin Effects:

Skin irritation, Rabbit, adult 500 mg/24 hours Mild irritation effects , target organs - No Data Available

Dermal Toxicity:

No Data Available

Eye Effects:

Eye irritation, rabbit. mildly irritating. 500 mg/24 Hr.

Ingestion Effects:

LD50 = lethal dose 50% of test species, > 17000 mg/kg
According to experience, the product is considered to be harmless to health if handled in the correct manner.

Sensitization:

No Data Available

Carcinogenicity/Mutagenicity:

This product does NOT contain any substances that are considered by OSHA, NTP, IARC or ACGIH to be "probable" or "suspected" human carcinogens.
Mutagenicity information not available for this product.

Reproductive Effects:

No reproductive data available. STOT No data available

Neurotoxicity:

The neurotoxic effects of this product are not known.

Target Organs:

Target organ effects of this material are not available.

Additional Toxicological Information:

No other toxic effects for this product are known.

Section 12- Ecological Information

Ecotoxicity: No Information Available on Ecotoxicity; Harmful to aquatic life by promoting algae blooms.

Degradability: No specific biodegradation test data located.

Bioaccumulative potential: No Data Available

Mobility in the Soil: No Data Available

Additional Adverse effect on environment:

None. Do not allow to enter drains or water ways.

SECTION 13 - Disposal Considerations

Disposal Instructions and Regulations:

Offer surplus and non-recyclable solutions to a licensed disposal company. Dispose of as unused product as contaminated packaging. In unused condition, this product is NOT considered to be a RCRA defined hazardous waste by characteristics/listings. It is the responsibility of the waste generator to evaluate whether his wastes are hazardous by characteristic/listing. Dispose in accordance with all local, state and federal regulations. 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:

Containers should be cleaned of residual product before disposal. Empty containers should be disposed of in accordance with all applicable laws and regulations. Please be advised that state and local requirements for waste disposal may be more restrictive or otherwise different from federal laws and regulations.

Section 14 - Transport Information

US DOT, IATA, IMO, ADR:

Proper Shipping Name: **Sodium Phosphate, Dibasic**

D. O. T. Hazard Class:	Not Regulated by D.O.T.	**UN #:**	3077
Label Requirement:	None	**RQ:**	5,000 lbs.
Placard:	None	**CAS:**	7558-79-4
Packing Group:	N/A	**ERG Book Information:**	Guide #171
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 does NOT contain any products considered hazardous under the Federal OSHA HazCom. 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:

This product contains the following toxic chemical subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right to Know Act:

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:

Sodium Phosphate, Dibasic CERCLA/SARA RQ=5,000 lbs.

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: This product is listed as a Hazardous Substance under the Clean Water Act as Sodium Phosphate, Dibasic.

RCRA: Not considered a hazardous waste.

State Reporting Requirements:

State Right to Know Laws:

CAS#	State RTK	Chemical Name
		None

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: All intentional ingredients are Listed on the Canadian DSL

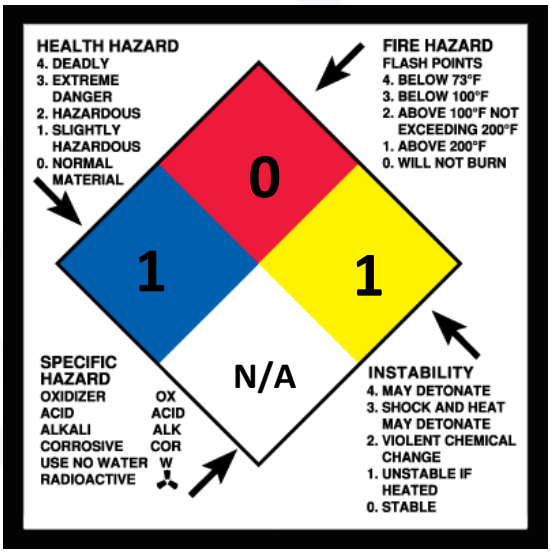
Canada WHMIS: Not a WHMIS listed component

SECTION 16 - Other Information

Medical Conditions Possibly Aggravated by Exposure:
All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred. **Notes to Physician:**
Ingestion of large quantities of phosphate salts (over 1.0 grams for an adult) may cause an osmotic catharsis resulting in diarrhea and probable abdominal cramps. Larger doses such as 4-8 grams will almost certainly cause these effects in everyone. In healthy individuals most of the ingested salt will be excreted in the feces with the diarrhea and, thus, not cause any systemic toxicity. Doses greater than 10 grams hypothetically may cause systemic toxicity. Treatment should take into consideration both anionic and cation portion of the molecule. The following treatments should be considered for the specific group(s) of phosphate salts found in this product. All phosphate salts, except calcium salts, have a hypothetical risk of hypocalcemia, so calcium levels should be monitored.
Ammonium salts have a hypothetical risk of ammonia toxicity. In addition to calcium levels, ammonia and phosphate levels should be monitored.
Potassium salts have a hypothetical risk of hyperkalemia which can cause cardiac arrhythmia. In addition to calcium levels, potassium and phosphate levels should be monitored. Also consider continuous EKG monitoring to detect hyperkalemia.
Sodium salts have a hypothetical risk of hypernatremia. In addition to calcium levels, sodium and phosphate levels should be monitored.

Additional Info:: When shipped as a single bulk package equal to 5000 pounds or more, this material is regulated as a US DOT hazardous material as the following: RQ, UN 3077, Environmentally Hazardous Substance,
Solid, n.o.s, (sodium phosphate, dibasic), 9, PG III, Label Class 9.

5-21-15 SDS reviewed - updated to GHS requirements. This replaces all previous MSDS's -
1-15-17 SDS updated - This replaces all previous SDS
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:

Reach Number EU

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

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