

Safety Data Sheet



1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Identification

Product Name: Reference Number: Date:

MONOSODIUM PHOSPHATE ANHYDROUS / MONOHYDRATE AST10024 May 11, 2015

Use of the ingredient or preparation

Food ingredient

Company information

ICL PERFORMANCE PRODUCTS LP 622 Emerson Road - Suite 500 St. Louis, Missouri 63141

Emergency telephone: In USA call CHEMTREC: 1 800 424 9300

Outside the USA, including ships at sea, call CHEMTREC's international and maritime telephone number (collect calls accepted):+1 (703) 527-3887

In Canada call CANUTEC: 1 613 996 6666

General Information: +1 800 244 6169 (Worldwide)

2. HAZARDS IDENTIFICATION

GHS – This product does not meet the criteria for classification under GHS.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Composition

Substance	CAS No.	<u>%w/w</u>
Monosodium Phosphate	Anhydrous 7558-80-7 Monohydrate 10049-21-5	100 or 100

4. FIRST AID MEASURES

<u>General</u>

Likely Routes of Exposure: Skin contact and inhalation

Eye Contact

Immediate first aid is not likely to be required. However, this material can be removed with water. Remove material from eyes, skin and clothing. Wash heavily contaminated clothing before reuse.

Skin contact

Immediate first aid is not likely to be required. However, this material can be removed with water. Remove material from eyes, skin and clothing. Wash heavily contaminated clothing before reuse.

Inhalation

Immediate first aid is not likely to be required. However, if symptoms occur, remove to fresh air.

Ingestion

Immediate first aid is not likely to be required. A physician or Poison Control Center can be contacted for advice.

5. FIRE FIGHTING MEASURES

Extinguishing media

Non-combustible. No special requirement.

Unsuitable extinguishable media

Non-combustible. No special requirement.

Exposure hazards

No special considerations

Protective equipment

As a general precaution, firefighters and others exposed, wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Avoid unnecessary exposure and remove all material from eyes, skin and clothing.

Environmental precautions

Small quantities: Avoid discharge into the environment Large quantities: Avoid discharge into the environment.

Method for cleaning up

In case of spill, sweep, scoop or vacuum all material, contaminated soil and other contaminated material and place in clean, dry containers for removal. If possible, complete cleanup on a dry basis. After all practical dry cleanup has been done, residual contamination can be flushed with plenty of water.

7. HANDLING AND STORAGE

Handling:

Handle in accordance with good industrial hygiene and safety practices. These practices include avoiding unnecessary exposure and removal of material from eyes, skin and clothing.

Engineering measures

Provide natural or mechanical ventilation to minimize exposure. The use of local mechanical exhaust ventilation is preferred at sources of air contamination such as open process equipment.

Consult National Fire Protection Association (NFPA) Standard 91 for design of exhaust systems.

Storage

Store in a cool, dry place to maintain product performance.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure limit

ACGIH TLV 10 mg/m³ (inhalable) 8-hr TWA, 3 mg/m³ (respirable) 8-hr TWA OSHA PEL 15 mg/m³ (total dust) 8-hr TWA, 5 mg/m³ (respirable) 8-hr TWA

OSHA and ACGIH have not established specific exposure limits for this material. However, OSHA and ACGIH have established limits for particulates not otherwise regulated (PNOR) and particulates not otherwise classified (PNOC) which are the least stringent exposure limits applicable to dusts.

Components referred to herein may be regulated by specific Canadian provincial legislation. Please refer to exposure limits legislated for the province in which the substance will be used.

Respiratory protection

Avoid breathing dust. Use NIOSH/MSHA approved respiratory protection equipment when airborne exposure limits are exceeded (see below). Consult the respirator manufacturer to determine appropriate type equipment for a given application. Observe respirator use limitations specified by NIOSH/MSHA or the manufacturer. Respiratory protection programs must comply with 29 C.F.R. 1910.134 or European Standard EN 149.

Hand/Skin protection

Although this product does not present a significant skin concern, minimize skin contamination by following good industrial practice. Wearing protective gloves is recommended. Wash hands and contaminated skin thoroughly after handling.

Eye protection

This product does not cause significant eye irritation or eye toxicity requiring special protection. Use good industrial practice to avoid eye contact. Refer to OSHA 29 CFR 1910.133 or European Standard EN166.

9. PHYSICAL AND CHEMICAL PROPERTIES

- a) Appearance: White granules or powder
- b) Odor: None
- c) Odor threshold: Undetermined.
- d) pH: 4.6
- e) Melting point/freezing point: Undetermined
- f) Initial boiling point and boiling range: Undetermined.
- g) Flash point: Undetermined
- h) Evaporation rate: Undetermined.
- i) Flammability (solid, gas) : Undetermined.
- j) Upper/lower flammability or explosive limits: Undetermined.
- k) Vapor pressure: Undetermined.
- I) Vapor density: Undetermined.
- m) Relative density: Undetermined.
- n) Solubility(ies) : Water: 56.0 (g./100 g. H₂O): @ 0 °C

92.3 (g./100 g. H_2° O): @ 25 °C 131.2 (g./100 g. H_2 O): @ 40 °C 165.8 (g./100 g. H_2 O): @ 60 °C 242.4(g./100 g. H_2 O): @ 100 °C

- o) Partition coefficient: n-octanol/water: Undetermined.
- p) Auto-ignition temperature: Undetermined.
- q) Decomposition temperature: Undetermined.
- r) Viscosity: Undetermined.
- s) Chemical Formula: NaH₂PO₄

NOTE: These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specifications for the product.

10. STABILITY AND REACTIVITY

Product is stable under normal conditions of storage and handling.

Conditions to avoid

None known.

Materials to avoid

None known.

Hazardous decomposition

None known.

11. TOXICOLOGICAL INFORMATION

The dry powder or granules may cause foreign body irritation in some individuals. Prolonged contact with the dry powder may cause drying or chapping of the skin. Excessive inhalation of dust may be annoying and can mechanically impede respiration.

Sodium phosphates have been used as therapeutic agents in medicinal preparations for their laxative effects. These phosphate salts are incompletely absorbed from the intestinal tract. Due to their osmotic activity, they draw water into the intestine and produce purging.

Laboratory data

Data from ICL Performance Products LP single-dose (acute) animal studies with this material are given below:

Oral - rat LD_{50} : 7,100 mg/kg; practically nontoxic Dermal - rabbit LD_{50} : >7,940 mg/kg; practically nontoxic Eye Irritation - rabbit: 6.0/110.0; no more than slightly irritating Skin Irritation - rabbit: 0.0/8.0; nonirritating

No adverse genetic effects were reported in standard tests using bacterial and yeast cells.

12. ECOLOGICAL INFORMATION

Environmental toxicity

The following data have been classified using the criteria adopted by the European Economic Community (EEC) for aquatic organism toxicity.

Invertebrate: 48-hr LC₅₀ Daphnia magna: >1,000 mg/L; Practically nontoxic Warmwater fish: 96-hr. LC_{50} - Bluegill sunfish: 6,400 mg/L; Practically nontoxic Coldwater fish: 96-hr. LC_{50} - Rainbow trout: 3,200 mg/L; Practically nontoxic

Environmental fate

No definitive algal toxicity or biodegradation data was available for this material.

13. DISPOSAL CONSIDERATIONS

European waste catalog number

The data provided in this section is for information only. Please apply the appropriate classification for your waste.

06 03 07 Waste from inorganic chemical processes, waste salts and their solutions, phosphates and related solid salts

Disposal Considerations

This material when discarded is not a hazardous waste as that term is defined by the Resource, Conservation and Recovery Act (RCRA), 40 CFR 261. Dry material may be landfilled or recycled in accordance with local, state and federal regulations. Consult your attorney or appropriate regulatory officials for information on such disposal.

14. TRANSPORT INFORMATION

The data provided in this section is for information only. Please apply the appropriate regulations to properly classify your shipment for transportation.

Road/Rail, Sea and Air

IMDG/UN	Not regulated for transportation
ICAO/IATA	Not regulated for transportation
RID/ADR	Not regulated for transportation
Canadian TDG	Not regulated for transportation
US DOT	Not regulated for transportation

15. REGULATORY INFORMATION

EC Label

None

Chemical Inventory

	Listed
C: *	Listed
ipan *	Listed
ustralia *	Listed
orea *	Listed
nilippines *	Listed
nina L	sted – Anhydrous and Monohydate are listed
pan * ustralia * prea * nilippines *	Listed Listed Listed Listed

* Monosodium Phosphate Anhydrous (CAS No. 7558-80-7) is listed on the TSCA Inventory. Monosodium Phosphate Monohydrate (CAS No. 10049-21-5) is exempt from the TSCA Inventory since the anhydrous form is listed. [40 CFR 720.3(u)(2)]

**The anhydrous form of monosodium phosphate is listed in the above inventories.

WHMIS Classification: Not Controlled

SARA Hazard Notification	
Hazard Categories Under Title III Rules (40 CFR 370):	Not Applicable
Section 302 Extremely Hazardous Substances:	Not Applicable
Section 313 Toxic Chemical(s):	Not Applicable

CERCLA Reportable Quantity:

Reference No.: AST10024

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulation and the MSDS contain all the information required by the Canadian Controlled Products Regulation.

Refer to Section 11 for OSHA/HPA Hazardous Chemical(s) and Section 13 for RCRA classification.

16. OTHER INFORMATION

	<u>Health</u>	<u>Fire</u>	Reactivity	Additional Information
Suggested NFPA Rating	1	0	0	
Suggested HMIS Rating	1	0	0	Ε
				E = safety glasses, gloves, dust respirator

This material is certified to ANSI/NSF Standard 60 by NSF® International for use in potable water systems.

Reason for revision: Revised section 1 and 11. Supersedes MSDS dated: March 28, 2013

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