

SAFETY DATA SHEET

According to OSHA Hazard Communication Standard 29 CFR 1910.1200 (HAZCOM 2012 - GHS)
According to Canada Hazardous Products Regulation (WHMIS 2015)

Product name	XP-4	
Product id	3052	
Revision date	18/09/2017	Revision: 1

1. Identification of the substance & the company

Product identifier	XP-4
Chemical family	Phosphate salts
Type of product and use	Feed supplement
Supplier	ICL 622 Emerson Road - Suite 500 St. Louis, Missouri 63141, USA Tel:(314) 983-7500 Fax:(314) 983-7642 e-mail:msdsinfo@icl-group.com
	General Information: +1 800 244 6169 (Worldwide)
Emergency Telephone	Chemtrec: (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

2. Hazards identification

GHS classification	Eye Irrit. 2, H319 Causes serious eye irritation
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Labels and other form of warning .

Symbol(s)



Signal Word	WARNING
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Hazard statements	H319 - Causes serious eye irritation
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Precautionary statements P280 - Wear protective gloves/protective clothing/eye protection/face protection
P264 - Wash hands thoroughly after handling
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P337 + P313 - If eye irritation persists: Get medical advice/attention

NFPA Ratings (Scale 0-4) Health = 1, Fire = 0, Reactivity = 0

HMIS Ratings (Scale 0-4) Health = 1, Fire = 0, Reactivity = 0.

3. Composition / information on ingredients

Components	CAS No.	Weight %
Sodium Acid Pyrophosphate	7758-16-9	60 - 100
Monosodium Phosphate Anhydrous	7558-80-7	0 - 40

4. First-aid measures

Eye contact Hold eyes open and rinse slowly and gently with water for 15-20 minutes. Get medical attention if irritation persists.

Skin contact Wash with water and soap.

Inhalation Supply fresh air; consult doctor in case of symptoms.

Ingestion No significant adverse health effects are expected if only small amount (less than a mouthful) are swallowed.

Most important symptoms and effects, acute or delayed

Causes serious eye irritation

Notes to the physician Treat symptomatically and supportively.

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5. Fire - fighting measures

Suitable extinguishing media	Material is not combustible. Not applicable.
Extinguishing media not to be used	Do not use water jet.
Unusual fire and explosion hazards	When heated to decomposition, may release poisonous and corrosive fumes of phosphorus oxides, phosphoric acid and sodium oxide.
Fire fighting procedure	No special measures required.

6. Accidental release measures

Personal precautions	Avoid dust formation. Wear protective clothing specified for normal operations (see section 8).
Methods for cleaning up	Take up mechanically and collect in suitable container for disposal. Avoid discharge into the environment.

7. Handling and storage

Handling	Keep containers tightly closed. Avoid bodily contact.
Storage	Store in a cool, dry place to maintain product performance.

8. Exposure controls / personal protection

Exposure Limits :

Components	ACGIH-TLV Data	Korea OEL	OSHA (PEL) Data
Sodium Acid Pyrophosphate 7758-16-9	Not determined	Not determined	Not determined
Monosodium Phosphate Anhydrous 7558-80-7	Not determined	Not determined	Not determined

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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

Ventilation requirements Mechanical ventilation is recommended. Use local exhaust at source of vapour. Ventilation must be sufficient to maintain TLV-TWA below 3 mg/m³, respirable particles, and 10 mg/m³, inhalable particles (ACGIH recommendation for Particles (Insoluble or poorly soluble) Not Otherwise Specified (PNOS)).

Personal protective equipment:

- **Respiratory protection** NIOSH/MSHA approved respiratory protection is recommended for use in airborne concentrations exceeding exposure limits.
- **Hand protection** Protective gloves
- **Eye protection** Chemical safety goggles, eye flushing equipment
- **Skin and body protection** appropriated protective clothing.

Hygiene measures Do not eat, smoke or drink where material is handled, processed or stored. Wash hands thoroughly after handling and before eating or smoking. Safety shower and eye bath should be provided.

9. Physical and chemical properties

Appearance	White powder
Physical state	Powder
Color	White
Odor	None.
Odor threshold	Not determined
pH	Not determined
Melting point/range	Not determined
Boiling point/range	Not determined
Flash point	Not determined
Evaporation rate (ether=1)	Not determined
Flammability (solid, gas)	Not determined
Flammable/Explosion limits	Not determined
Vapor pressure	Not determined
Vapor density	Not determined
Density	Not determined
Solubility:	
- Solubility in water	Soluble
Partition coefficient (n-octanol/water)	Not determined

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Auto-ignition temperature	Not determined
Decomposition temperature	Not determined
Viscosity	Not determined

10. Stability and reactivity

Reactivity	No reactive hazards known/expected.
Stability	Stable under normal conditions
Possibility of hazardous reactions	Not expected to occur
Conditions to avoid	None known.
Materials to avoid	None known
Hazardous decomposition products	None known.

11. Toxicological information

Acute toxicity:	ICL has not conducted toxicity studies with this material and no data was found in a reasonably extensive search of the literature. Data on the major component(s) are given below
- Rat oral LD50	3,600 mg/kg (Sodium Acid Pyrophosphate) 7,100 mg/kg (Monosodium Phosphate)
- Rabbit dermal LD50	> 7,940 mg/kg (Sodium Acid Pyrophosphate) > 7,940 mg/kg (Monosodium Phosphate)
- Rat inhalation LC50	> 0.58 mg/L (Sodium Acid Pyrophosphate)
Skin corrosion/irritation	slightly irritating (Sodium Acid Pyrophosphate) Not irritant (Monosodium Phosphate)
Serious eye damage/ irritation	Severe irritant (Sodium Acid Pyrophosphate) practically nonirritating (Monosodium Phosphate)
Mutagenicity	Monosodium Phosphate and Sodium Acid Pyrophosphate has produced no genetic changes in standard tests using bacterial cells

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Reproductive toxicity	No birth defects were reported in mice, hamsters, or rabbits given this material during pregnancy (sodium acid pyrophosphate)
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12. Ecological information

Aquatic toxicity	No data available
Biodegradation	No data available
Bioaccumulative potential	No data available

13. Disposal considerations

Waste disposal	If this product as supplied becomes a waste, it does not meet the criteria of a hazardous waste as defined under the Resource Conservation and Recovery Act (RCRA), 40CFR Part 261. Dispose of in accordance with local, State and Federal laws and regulations.
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14. Transportation information

DOT	Not hazardous for transport
TDG (Canada)	Not hazardous for transport

15. Regulatory information

USA	All the components of this substance are listed on or are exempt from the inventory
Canada	Listed in DSL

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16. Other information

Although the information and recommendations set forth herein (hereinafter "information") are presented in good faith and believed to be correct as of the date hereof, we make no representations as to the completeness or accuracy thereof. Information is supplied to you upon the condition that the persons receiving the information will make their own determination as to its safety and suitability for their purposes prior to use. In no event will we be responsible for damages of any nature whatsoever resulting from the use of or reliance upon the information. In addition, we shall not be liable for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices or from any hazards inherent in the nature of the product.

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End of safety data sheet