



**ICL Performance
Products LP**

Material Safety Data Sheet

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: XP-4
Reference Number: AST10082
Date: November 1, 2005
Chemical Family: Phosphate Salts

Company/Undertaking Identification:

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

Emergency telephone

In USA call CHEMTREC: 1 800 424 9300
In Canada call CANUTEC: 1 613 996 6666

General Information: 1 800 244 6169 (Worldwide)

2. COMPOSITION/INFORMATION ON INGREDIENTS

| <u>Component</u> | <u>CAS No.</u> | <u>% by weight</u> |
|--------------------------------|----------------|--------------------|
| Sodium Acid Pyrophosphate | 7758-16-9 | 40 - 70 |
| Monosodium Phosphate Anhydrous | 7558-80-7 | 40 - 70 |

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Appearance and Odor: White powder with no odor

WARNING STATEMENTS

WARNING!
CAUSES EYE AND RESPIRATORY TRACT IRRITATION
MAY CAUSE SKIN IRRITATION

POTENTIAL HEALTH EFFECTS

Likely Routes of Exposure: Skin contact and inhalation

EYE CONTACT: This product may cause pain, redness, and tearing based on toxicity tests of the components.

SKIN CONTACT: This product may cause pain, redness, and swelling based on toxicity of components. High dust concentrations were reported to cause mild skin irritation.

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INHALATION: Based on the toxicity of one of the components, this product causes coughing, chest pain, runny nose, and burning throat. Workers exposed to dust of this component reported moderate irritation of the nose and throat, with five of the eighteen workers reporting nasal stuffiness and nosebleeds

INGESTION: This product may cause severe nausea, vomiting, abdominal discomfort, and burning sensation based on toxicity studies of one of the components.

Refer to Section 11 for toxicological information.

4. FIRST AID MEASURES

IF IN EYES OR ON SKIN, immediately flush with plenty of water. If easy to do, remove any contact lenses. Get medical attention if irritation persists. Remove contaminated clothing. Remove material from eyes, skin and clothing. Wash clothing before reuse.

IF INHALED, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen

IF SWALLOWED, do NOT induce vomiting. Rinse mouth with water, get medical attention. Contact a Poison Control Center. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

5. FIRE FIGHTING MEASURES

FLASH POINT: Not combustible

HAZARDOUS PRODUCTS OF COMBUSTION: Not applicable

EXTINGUISHING MEDIA: Not applicable

UNUSUAL FIRE AND EXPLOSION HAZARDS: None known

6. ACCIDENTAL RELEASE MEASURES

In case of spill, sweep, scoop or vacuum and remove. Flush residual spill area with water.

Refer to Section 13 for disposal information and Sections 14 and 15 for reportable quantity information.

7. HANDLING AND STORAGE

HANDLING:

Avoid breathing dust.
Keep container closed.
Use only with adequate ventilation.
Avoid contact with eyes, skin and clothing.
Wash thoroughly after handling.
Do not taste or swallow

Emptied container retains product residue. Observe all labeled safeguards until container is cleaned, reconditioned, or destroyed.

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EYE PROTECTION: Where there is significant potential for eye contact, wear chemical goggles and have eye flushing equipment available.

SKIN PROTECTION: Wear appropriate protective clothing and chemical resistant gloves to

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prevent skin contact. Consult the glove/clothing manufacturer to determine the appropriate type glove/clothing for a given application. Wash contaminated skin promptly. Launder contaminated clothing and clean protective equipment before reuse. Wash thoroughly after handling.

RESPIRATORY PROTECTION: Avoid breathing dust. Use NIOSH/MSHA approved respiratory protection equipment when airborne exposure is excessive. 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.

VENTILATION: Provide natural or mechanical ventilation to control exposure levels below airborne exposure limits (see below). The use of local mechanical exhaust ventilation is preferred at sources of air contamination such as open process equipment.

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

OSHA PEL

15 mg/m³ (total dust) 8-hr TWA
5 mg/m³ (respirable) 8-hr TWA

ACGIH TLV

10 mg/m³ (inhalable) 8-hr TWA
3 mg/m³ (respirable) 8-hr TWA

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White powder
Odor: None
Solubility in Water: Soluble

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

STABILITY: Product is stable under normal conditions of storage and handling.

MATERIALS TO AVOID: None known

HAZARDOUS DECOMPOSITION PRODUCTS: None known

HAZARDOUS POLYMERIZATION: Will not occur

11. TOXICOLOGICAL INFORMATION

ICL Performance Products LP has not conducted toxicity studies with this material and no data was found in a reasonably extensive search of the literature. However, data on the major component(s) are given below:

Sodium Acid Pyrophosphate

Oral - rat LD50 - 3,600 mg/kg; slightly toxic
Dermal - rabbit LD50: > 7,940 mg/kg; practically non-toxic
Eye Irritation - rabbit: 66.5/110; severely irritating
Skin Irritation - rabbit: 0.7/8.0; slightly irritating
Inhalation - LC50>0.58 mg/l, 4 hr (rat) - maximum attainable concentration

The dry powder may cause foreign body irritation in some individuals. Prolonged contact with the dry powder may cause drying or chapping of the skin. Workers exposed to dust of this product reported moderate irritation of the nose and throat, with five of the eighteen workers reporting

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nasal stuffiness and nosebleeds. High dust concentrations were reported to cause mild eye and skin irritation.

No birth defects were reported in mice, hamsters, or rabbits given sodium acid pyrophosphate during pregnancy. No adverse genetic effects were reported in standard tests using animals or bacterial and yeast cells.

Monosodium Phosphate

Oral - rat LD50: 7,100 mg/kg; practically nontoxic
Dermal - rabbit LD50: >7,940 mg/kg; practically nontoxic
Eye Irritation - rabbit: 1.3/110.0; practically nonirritating
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

ICL Performance Products LP has not conducted environmental toxicity studies with this product.

ICL Performance Products LP has not conducted biodegradation studies with this product since when dissolved/hydrolyzed in water it yields completely mineralized materials.

13. 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.

US DOT

Not hazardous for transportation

Canadian TDG

Not hazardous for transportation

15. REGULATORY INFORMATION

TSCA Inventory: Listed
DSL Inventory: Listed

WHMIS Classification: D2(B) - Materials Causing Other Toxic Effects

SARA Hazard Notification

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

CERCLA Reportable Quantity: Not applicable

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

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

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16. OTHER INFORMATION

| | Health | Fire | Reactivity | Additional Information |
|-----------------------|--------|------|------------|--|
| Suggested NFPA Rating | 1 | 0 | 0 | |
| Suggested HMIS Rating | 1 | 0 | 0 | E E = Safety glasses, gloves, dust respirator |

Reason for revision: New Company
Product Use: Feed Supplement

Supersedes MSDS dated: October 01, 2003

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