



**ICL Performance
Products LP**

Material Safety Data Sheet

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Identification

Product Name: Nutrifos ® 100 Phosphate Blend
Reference Number: AST10083
Date: April 20, 2006

Use of the substance or preparation

Food Ingredient

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

Composition

<u>Substance</u>	<u>CAS No.</u>	<u>EINECS No.</u>	<u>Risk Phrase</u>
Tetrapotassium Pyrophosphate	7778-53-2	231-907-4	None
Potassium Tripolyphosphate	13845-36-8	237-574-9	None
Monopotassium Phosphate	7778-77-0	231-913-4	None
Dipotassium Phosphate	7758-11-4	231-834-5	None

3. HAZARDS IDENTIFICATION

Classification of the substance/preparation

EC Classification: None
Safety Phrase: None

Human Health Effects

Likely Routes of Exposure: Skin contact and inhalation

EYE CONTACT: No more than slightly irritating based on toxicity studies of components. The dry powder may cause foreign body irritation in some individuals.

SKIN CONTACT: No more than slightly toxic or slightly irritating based on toxicity studies of components. Prolonged contact with the dry powder may cause drying or chapping of the skin.

INHALATION: Inhalation of the dust may cause coughing and sneezing.

INGESTION: Is not toxic if swallowed based on toxicity studies of components. No significant adverse health effects are expected to develop if only small amounts (less than a mouthful) are swallowed. Large doses may cause nausea, vomiting and diarrhea.

Refer to Section 11 for toxicological information.

Environmental Effects

This material is not expected to product any significant adverse environmental effects when recommended use instructions are followed.

4. FIRST AID MEASURES

General

Treatment is symptomatic and supportive.

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.
To extinguish fire use water spray, dry chemical, carbon dioxide, or appropriate foam

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: See below

Large quantities: See below

Method for cleaning up

In case of spill, sweep, scoop or vacuum and remove. Flush residual spill area with 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 cool, dry place to maintain product performance. Emptied container retains product residue. Observe all labeled safeguards until container is cleaned, reconditioned, or destroyed. The reuse of this material's container for non-industrial purposes is prohibited and any reuse must be in consideration of the date provided in the MSDS.

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 and or European Standard EN149.

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information

Form: powder or granules
Color: White
Odor: Odorless

Important health, safety and environmental information

pH: (as a 1% solution @ 25 C): 8.8-9.2
Solubility in Water: Soluble
Bulk Density: 0.97 g/cc

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

Laboratory data

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:

Tetrapotassium Pyrophosphate

Oral - rat LD50: 2,980 mg/kg; slightly toxic
Dermal - rabbit LD50: > 7,940 mg/kg; practically nontoxic
Eye Irritation - rabbit: 11.1/110.0; moderately irritating
Skin Irritation - rabbit: 0.5/8.0 (24-hr. exposure); practically nonirritating

Following repeated exposure (13-weeks) to this product in their food, kidney damage with

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changes in body weight, food consumption, clinical parameters and organ weights were reported at high-dose levels in rats.

Potassium Tripolyphosphate

Eye Irritation - rabbit: mildly irritating (unwashed eyes)

Eye Irritation - rabbit: nonirritating (washed eyes)

Monopotassium Phosphate

Oral - rat LD50: 7,100 mg/kg; practically nontoxic

Dermal - rabbit LD50: > 7,940 mg/kg; practically nontoxic

Eye Irritation - rabbit: 10.0/110.0 avg. max.; slightly irritating

Skin Irritation - rabbit: 0.0/8.0 avg. max.; nonirritating

No birth defects were reported in mice and rats given this material during pregnancy.

Dipotassium Phosphate

Oral - female rat LD50: 4,750 mg/kg; slightly toxic

Oral - male rat LD50: 8,100 mg/kg; practically nontoxic

Dermal - rabbit LD50: > 5,000 mg/kg; practically nontoxic

Eye Irritation - rabbit (24-hr. exp.): minimally irritating

Skin Irritation - rabbit (24-hr. exp.): 1.9/8.0; slightly irritating

Skin Irritation - rabbit (4-hr. exp.): slightly irritating

Dogs given this material in their diet or by oral administration for a period up to 38 weeks showed kidney effects and/or damage and blood changes.

12. ECOLOGICAL INFORMATION

Environmental toxicity

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

Environmental fate

Inorganic compounds in contact with the soil, sub-surface or surface waters may be taken up by plants and utilized as essential nutrients. Phosphates may also form precipitates, usually with calcium or magnesium. The resultant compounds are insoluble in water and become a part of the soil or sediment. The term biodegradability, as such, is not applicable to inorganic compounds.

13. DISPOSAL CONSIDERATIONS

European waste catalog number

Unknown

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.

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Road/Rail, Sea and Air

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

15. REGULATORY INFORMATION

EC Label

Hazard symbol: none

Chemical Inventory

USA TSCA:	Listed
Canada DSL:	Listed
EC:	Listed

Other information

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: Not applicable

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.

16. OTHER INFORMATION

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

Reason for revision: Revised section 1. Supersedes MSDS dated: November 1, 2005
Drafted in accordance with ECC Dir 2001/58/EC

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