



**ICL Performance
Products LP**

Material Safety Data Sheet

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Identification

Product Name: TETRASODIUM PYROPHOSPHATE ANHYDROUS
Reference Number: AST10060
Date: April 21, 2006
Synonyms: TSPP; Sodium Pyrophosphate

Use of substance or preparation

Food ingredient, sequestrate, buffer, deflocculate, water treatment, metal cleaner, soil stabilizer, consumer and industrial cleaning products, paper coating and filling, pigment dispersant, detergent

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>%w/w</u>	<u>Risk Phrase</u>
Tetrasodium Pyrophosphate	7722-88-5	231-767-1	95+	R36/37/38

3. HAZARDS IDENTIFICATION

Classification of the substance/preparation

EC Classification: Xi - Irritant
Safety phrase: S26 S36

Human Health Effects

The product causes eye irritation and may cause respiratory tract irritation.

Environmental Effects

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

4. FIRST-AID MEASURES

WARNING STATEMENTS

CAUTION!

CAUSES EYE IRRITATION

MAY CAUSE RESPIRATORY TRACT IRRITATION

General

Treatment is symptomatic and supportive. This product causes eye irritation and may cause respiratory tract irritation. Eye irritation symptoms include stinging, tearing, redness and swelling. Inhalation of this dust may cause coughing, chest pain, runny nose and burning throat. Ingestion of large doses (e.g. 20 g) may cause vomiting and nausea. If vomiting is not spontaneous, do NOT induce it. Phosphates are laxatives.

Eye contact

Immediately flush eyes with water for at least 15 minutes, lifting the upper and lower eyelids intermittently. See a medical doctor or ophthalmologist immediately.

Skin contact

Wash with plenty of soap and water. Get medical attention if irritation occurs and persists.

Inhalation

Remove to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Inhalation of the dust may cause coughing, runny nose, and sneezing.

Ingestion

Rinse mouth with plenty of water. Dilute by drinking 1 to 2 glasses of water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention. Contact a Poison Control Center.

5. FIRE FIGHTING MEASURES

Extinguishing media

Non-combustible.

No special requirement.

Unsuitable extinguishing 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

No special requirement.

Environmental precautions

Small quantities: Presents no environmental problems.

Large quantities: As general precaution, avoid discharge into the environment.

Methods for cleaning up

Sweep, scoop or vacuum and place into containers for disposal.

7. HANDLING AND STORAGE

Handling

Avoid contact with eyes.

Avoid breathing dust

Keep container closed

Use only with adequate ventilation

Avoid contact with skin.

Wash thoroughly after handling.

Do not taste or swallow

Engineering measures

Provide natural or mechanical ventilation to control exposure levels below airborne exposure limits (see Section 8 below). The use of local mechanical exhaust ventilation is preferred at sources of air contamination such as open process equipment. If ventilation is inadequate or not available, use respiratory and eye protection to prevent irritation.

Storage

Store in cool, dry place to maintain product performance.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limit

<u>State</u>	<u>Standard</u>	<u>Limit</u>
Australia	Occupation Exposure Limit	5 mg/m ³ 8-hr. TWA
Belgium	Occupation Exposure Limit	5 mg/m ³ 8-hr. TWA
Denmark	Occupation Exposure Limit	5 mg/m ³ 8-hr. TWA
Finland	Occupation Exposure Limit	5 mg/m ³ 8-hr. TWA, 3 mg/m ³
France	Occupation Exposure Limit	VME 5 mg/m ³
Norway	Occupation Exposure Limit	5 mg/m ³ 8-hr. TWA
Switzerland	Occupation Exposure Limit	MAK – week 5 mg/m ³
United Kingdom	Occupation Exposure Limit	5 mg/m ³ 8-hr TWA
United States	Occupation Exposure Limit	5 mg/m ³ 8-hr. TWA

Respiratory protection

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In case of insufficient ventilation, wear suitable respiratory equipment; a dust and vapor respirator is recommended by HMIS. Use approved respiratory protective equipment as described in the U.S. OSHA 29 CFR 1910.134 or European Standard EN149.

Hand/skin protection

Wearing protective clothes is recommended; protective gloves and synthetic apron is recommended by HMIS. Wash hand and contaminated skin thoroughly after handling this product.

Eye protection

Wear appropriate protective eyeglasses or chemical safety goggles as described in the U.S. OSHA 29 CFR 1910.133 or European Standard EN 166. Splash goggles are recommended by HMIS.

9. PHYSICAL AND CHEMICAL PROPERTIES**General Information**

Chemical Formula:	Na ₄ P ₂ O ₇
Form	powder, free flowing
Color	White
Odor	Odorless

Important health, safety and environmental information

pH (1% solution)	10.3
Water solubility:	6.4 (g/100g H ₂ O) @ 25 °C
Melting point:	Incongruently @ 622 °C, completely @ 985 °C
Bulk density:	0.88 (g/cc)

10. STABILITY AND REACTIVITY

Product is stable under normal conditions of storage and handling. Store in a cool, dry place to maintain product performance.

Conditions to avoid

Excessive moisture.

Materials to avoid

None

Hazardous decomposition products

Oxides of sodium and oxides of phosphorus.

11. TOXICOLOGICAL INFORMATION**Laboratory data**

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

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Oral - rat LD50:	3,770 mg/kg; slightly toxic
Dermal - rabbit LD50:	> 7,940 mg/kg; practically nontoxic
Eye Irritation - rabbit:	43.0/110.0; extremely irritating
Skin Irritation - rabbit (24-hr exp.):	0.0/8.0; non-irritating

Rats fed this material in their diet for four months showed a reduced weight gain, urinary changes, increased organ-to-body weight ratios, and slight kidney damage. No birth defects were reported in rabbits, hamsters, mice or rats given this material during pregnancy. This material produced no genetic changes in standard tests using bacterial and yeast cells.

This material has been defined as a hazardous chemical under the criteria of the OSHA Hazard Communication Standard (29 CFR 1910.1200).

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 EC50 Daphnia magna:	391 mg/L; Practically Nontoxic
Fish:	96-hr LC50 Mosquito fish:	1380 mg/L; Practically Nontoxic
	48-hr LC50 High-eyes Medaka:	700 mg/L; Practically Nontoxic

No algal toxicity data was available for this material.

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 U.S. Resource, Conservation and Recovery Act (RCRA), 40 CFR 261. Dry material may be land filled 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

Road/Rail, Sea and Air

IMDG/UN	Not classified
ICAO/IATA	Not classified
RID/ADR	Unknown
Canadian TDG	Not classified
U.S. DOT	Not classified

15. REGULATORY INFORMATION

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EC label

Hazard symbol: Xi - Irritant
 Risk phrase R36/37/38 – irritating to eyes, respiratory system and skin.
 Safety phrase S26 – In case of contact with eyes, immediately flush with plenty of water and seek medical attention
 S36 – Wear suitable protective clothing

Chemical Inventory

USA TSCA: Listed
 Canada DSL: Listed
 EC: Listed
 Japan Listed
 Australia Listed
 Korea Listed
 Philippines Listed
 China Listed

Additional information

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: None
 Section 313 Toxic Chemical(s): None

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.

16. OTHER INFORMATION

	<u>Health</u>	<u>Fire</u>	<u>Reactivity</u>	<u>Additional Information</u>
Suggested NFPA Rating	3	0	0	
Suggested HMIS Rating	3	0	0	J J = Splash goggles, gloves, synthetic apron, dust & vapor 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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