



**ICL Performance
Products LP**

Material Safety Data Sheet

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Identification

Product Name: SODIUM ACID PYROPHOSPHATE
Reference Number: AST10051
Date: March 12, 2007
Synonyms: SAPP; Pyrophosphate Acid, Disodium Salt; Disodium Dihydrogen Pyrophosphate

Use of substance or preparation

Food ingredient, buffer, sequesterant, deflocculate, peptizing agent in cheese and meat products, dairy cleaners, drilling mud, metal cleaning and phosphatizing.

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>
Sodium Acid Pyrophosphate	7758-16-9	231-835-0	95+	None

3. HAZARDS IDENTIFICATION

Classification of the substance/preparation

EC Classification None
Safety phrase None

Human Health Effects

The product may cause eye and respiratory tract irritation. May cause skin irritation.

Environmental Effects

ICL Performance Products LP Material Safety Data Sheet

Material: Sodium Acid Pyrophosphate

Reference No.: AST10051

Page 2 of 7

March 12, 2007

This material is not expected to produce any significant environmental effects when recommended use instructions are followed. May cause temporary algal bloom.

4. FIRST-AID MEASURES

WARNING!

CAUSES EYE AND RESPIRATORY TRACT IRRITATION, MAY CAUSE SKIN IRRITATION

General

Treatment is symptomatic and supportive. This product may cause eye, skin, and respiratory tract irritation. May cause gastrointestinal irritation with nausea, vomiting and diarrhea. May cause mild skin irritation with symptoms including redness and burning. Can cause eye irritation with symptoms including stinging, tearing, redness and swelling. Inhalation of this dust may cause coughing, chest pain, runny nose and burning throat.

Eye contact

Rinse immediately with plenty of water. If easy to do, remove any contact lenses. Get medical attention if irritation occurs and persists. Remove contaminated clothing. Remove material from eyes, skin and clothing. Wash clothing before reuse.

Skin contact

Remove this material with plenty of soap and water. Contact with the dry material may cause drying, or chapping, redness or burning of the skin.

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 and sneezing.

Ingestion

If swallowed, do NOT induce vomiting. Rinse mouth with plenty of water and get medical attention. Contact a Poison Control Center. Never give anything by mouth to an unconscious person.

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. Flush 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 and skin.

Wash thoroughly after handling.

Do not taste or swallow.

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. 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 data provided in this MSDS.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limit

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.

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

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

ICL Performance Products LP Material Safety Data Sheet

Material: Sodium Acid Pyrophosphate

Page 4 of 7

Reference No.: AST10051

March 12, 2007

Avoid breathing dust. In case of insufficient ventilation, wear suitable respiratory equipment. Use NIOSH/MSHA approved respiratory protection equipment when airborne exposure limits are exceeded. Consult the respirator manufacturer to determine appropriate type equipment for a given application. Observe respirator use limitations specified by NIOSH/MSHA or the manufacturer. 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; wash hand and contaminated skin thoroughly after handling.

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information

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

Important health, safety and environmental information

pH (1% solution)	4.0 – 5.0
Melting point:	Decomposes between 250 – 275 °C (482-527 °F) to polyphosphates, which melt between 600 - 650 °C (1112-1202 °F)
Bulk density:	0.8 – 1.33 g/cc
Water solubility (g/100g H ₂ O):	5 @ 0 °C 12.5 @ 25 °C 20 @ 50 °C 65 @ 75 °C

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

Strong mineral acids

Hazardous decomposition products

None known.

11. TOXICOLOGICAL INFORMATION

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

Laboratory data

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

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

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.

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

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 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

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

ICL Performance Products LP Material Safety Data Sheet

Material: Sodium Acid Pyrophosphate

Reference No.: AST10051

Page 6 of 7

March 12, 2007

Road/Rail, Sea and Air

IMDG/UN	Not regulated for transport
ICAO/IATA	Not regulated for transport
RID/ADR	Not regulated for transport
Canadian TDG	Not regulated for transport
U.S. DOT	Not regulated for transport

15. REGULATORY INFORMATION**EC label**

None

Chemical Inventory

USA TSCA:	Listed
Canada DSL:	Listed
EC:	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.

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>	<u>Reactivit</u>	<u>Additional Information</u>
Suggested NFPA Rating	2	0	$\frac{Y}{0}$	
Suggested HMIS Rating	2	0	0	J J = Splash goggles, gloves, synthetic apron, dust & vapor respirator

Reason for revision: Revised section 9.

Supersedes MSDS dated: March 6, 2007

Drafted in accordance with ECC Dir 2001/58/EC

ICL Performance Products LP Material Safety Data Sheet

Material: Sodium Acid Pyrophosphate

Reference No.: AST10051

Page 7 of 7

March 12, 2007

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