



Material Safety Data Sheet

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Identification

Product Name: LEVN-LITE® LEAVENING AGENT
Reference Number: AST10015
Date: February 26, 2007
Synonyms: SALP, Phosphoric Acid, Aluminum Salt

Use of the ingredient or preparation

Food ingredient, dentifrice ingredient, agricultural chemical

Company information

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 Phrases</u>
Sodium aluminum phosphate	7785-88-8	232-090-4	None
Calcium carbonate	471-34-1	207-439-9	None
Precipitated amorphous silica	7631-86-9	231-545-4	None

3. HAZARDS IDENTIFICATION

Classification of the substance/preparation

EC Classification: None
Safety Phrase: None

Human Health Effects

Inhalation of dust may cause respiratory tract irritation. Product may cause eye and skin irritation.

Environmental Effects

This material is not expected to produce any significant adverse environmental effects when

recommended use instructions are followed.

4. FIRST AID MEASURES

General

Product has low toxicity and is generally regarded as safe as a food additive. Treatment is systematic and supportive.

Eye Contact

Avoid contact with eyes. In case of contact, wash eyes with plenty of water. Seek medical attention if irritation develops or persists. This dry powder may cause foreign body irritation in some individuals.

Skin contact

Remove this material from skin with plenty of soap and water. Prolonged contact with dry powder may cause drying or chapping of the skin.

Inhalation

Remove to fresh air, immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If breathing difficulty or discomfort occurs and persists, seek medical attention.

Ingestion

If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything to an unconscious person. If any discomfort persists, seek medical attention.

5. FIRE FIGHTING MEASURES

Extinguishing media

Non-combustible

No special requirement.

To extinguish fire use water, dry chemical, chemical foam, or alcohol-resistance 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: Avoid discharge into the environment

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Large quantities: Avoid discharge into the environmental – See section 15

Method for cleaning up

Sweep, scoop or vacuum spill material, contaminated soil and other contaminated material and place in clean, dry containers for removal. Clean the residual material by washing area with water and detergent.

7. HANDLING AND STORAGE

Handling

Product is stable under normal conditions of storage and 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

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

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.

Respiratory protection

Avoid breathing dust. In case of insufficient ventilation, use approved respiratory protective equipment as described in OSHA 29 CFR 1910.133 or European Standard EN 149. A dust respirator is recommended.

Hand/Skin protection

Wearing protective gloves is recommended; wash hands and contaminated skin thoroughly after handling.

Eye protection

Wear appropriate protective eyeglasses or chemical safety goggles as described in OSHA 29 CFR 1910.133 or European Standard EN166.

9. PHYSICAL AND CHEMICAL PROPERTIES

General information

Chemical Formula:
Form

Na₃Al₂H₁₅(PO₄)₈
Granules or powder

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Color: White
Odor: None

Important health, safety and environmental information

pH: 3.4
Density: 1.25 (g/cc)
Flash Point: non-flammable
Lower and upper explosion limits (UEL/LEL): not applicable
Minimum ignition temperature: not applicable

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

Avoid excessive moisture.

Materials to avoid

The product is incompatible with strong acids.

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:

Sodium Aluminum Phosphate (SALP)

Single-dose (acute) animal studies indicate that SALP is practically nontoxic orally (rat). No adverse effects were reported in dogs or rats repeatedly given SALP in their feed. In a similar study, microconcretions of the kidney tubules were the only adverse effect reported in rats fed SALP for 90 days. No adverse effects were reported in dogs fed SALP (acidic form) for 6 months. No adverse genetic changes were reported in standard tests using bacterial cells.

Data from ICL Performance Products LP studies and/or the available scientific literature on the components of this material which have been identified as hazardous chemicals under the criteria of the OSHA Hazard Communication Standard (29 CFR 1910.1200) are discussed below:

Calcium Carbonate

Inhalation of calcium carbonate dust may cause respiratory tract irritation, sneezing and coughing. Calcium carbonate dusts may cause eye irritation and, following repeated or prolonged contact, skin irritation.

Precipitated Amorphous Silica

Inhalation of precipitated amorphous silica can cause drying of mucous membranes of the eyes, nose and throat (due to absorption of moisture and oils), which may result in irritation and occasional nose bleeds. Repeated exposure to precipitate amorphous silica has not been reported to have significant adverse health effects in workers; however, persons with breathing problems or lung disease may be at an increased risk. Laboratory studies in animals exposed by inhalation to precipitated amorphous silica report reversible lung effects

12. ECOLOGICAL INFORMATION

Environmental toxicity

ICL Performance Products LP has not conducted fish and algal toxicity studies with 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. 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 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.

Road/Rail, Sea and Air

IMDG/UN	Not hazardous for transportation
ICAO/IATA passenger aircraft	Not hazardous for transportation
RID/ADR	Not hazardous for transportation
Canadian TDG	Not hazardous for transportation
US DOT	Not hazardous for transportation

14. REGULATORY INFORMATION

EC Label

None

Chemical Inventory

	<u>Sodium Aluminum Phosphate</u>	<u>Calcium Carbonate</u>	<u>Silicia</u>
USA TSCA:	Listed	Listed	Listed
Canada DSL:	Listed	On NDSL	Listed
EC:	Listed	Listed	Listed
Japan	Not listed	Listed	Listed
Australia	Listed	Listed	Listed
Korea	Listed	Listed	Listed
Philippines	Listed	Listed	Listed
China	Not Listed	Listed	Listed

WHMIS Classification: Not Controlled

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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 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 15. Supersedes MSDS dated: April 20, 2006
Drafted in accordance with ECC Dir 2001/58/EC

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