

MSDS  
(SAPP)

# SODIUM ACID PYROPHOSPHATE

## PRODUCT INFORMATION

**CHEMICAL NAME:** Sodium Acid Pyrophosphate

**SYNONYM(S):**

B.P. Pyro; Donut Pyro; Perfection; Sapp #4; Taterfos; Victor Cream; disodium pyrophosphate; disodium diphosphate; disodium dihydrogen phosphate.

**CHEMICAL FAMILY:** Phosphates

**MOLECULAR FORMULA:** Na<sub>2</sub>H<sub>2</sub>P<sub>2</sub>O<sub>7</sub>

**SHIPPING NAME:** Sodium Acid Pyrophosphate

**PIN - (UN/NA):** Not controlled

**WHMIS:** Not controlled

**PRODUCT USE:**

Electroplating; metal cleaning and phosphatizing; drilling muds; baking powders and leavening agent; buffer; sequestrant; peptizing agent in cheese and meat products; frozen deserts.

**MANUFACTURER:** Rhodia Canada Inc.

3265 Wolfedale Road, Mississauga, Ont. L5K 2C9  
Phone:905.270.5534

**SUPPLIER:**

Panther Industries Inc.  
Box 628  
Davidson, Sask. S0G 1A0

**EMERGENCY TELEPHONE NUMBER:** (306)567-2814

## INGREDIENTS

INGREDIENTS:	WEIGHT %	C.A.S. REGISTRY #
Sodium Acid Pyrophosphate	100	7758-16-9

## PHYSICAL DATA

**PHYSICAL STATE:** Solid

**ODOUR AND APPEARANCE:** White crystalline powder, odourless.

**ODOUR THRESHOLD:** Not applicable

**VAPOUR PRESSURE:** Not applicable

**VAPOUR DENSITY:** Not applicable

**EVAPORATION RATE:** Not applicable

**pH:** 3.8 to 4.5 @ 1wt/wt%

**BOILING POINT:** Not applicable

**MELTING POINT:** Decomposes @ 220°C

**SOLUBILITY IN WATER:** @ 25°C 13g/100g water

**MOLECULAR WEIGHT:** 222.15

**SPECIFIC GRAVITY:** 1.862

**% VOLATILE BY VOLUME:** Not available **BULK DENSITY:** approx. 1100 kg/m<sup>3</sup>

**COEFFICIENT OF WATER/OIL DISTRIBUTION:** Not available

## FIRE AND EXPLOSION DATA

**CONDITIONS OF FLAMMABILITY:** Non-flammable

**MEANS OF EXTINGUISHING:**

Not combustible. Use appropriate extinguishing media for material that is supplying fuel.

**FLASH POINT:** Noncombustible

**UPPER FLAMMABLE LIMIT:** Not applicable

**LOWER FLAMMABLE LIMIT:** Not applicable

**AUTO IGNITION TEMPERATURE:** Not applicable

**HAZARDOUS COMBUSTION PRODUCTS:** Oxides of phosphorous

**SPECIAL FIRE FIGHTING PROCEDURES:**

Wear a NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing. Dike area to prevent runoff and contamination of water sources.

**EXPLOSION HAZARDS:** None

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## REACTIVITY DATA

**STABILITY:** Stable at ambient temperatures and atmospheric pressure.

**HAZARDOUS POLYMERIZATION:** Will not occur.

**INCOMPATIBILITY:** Alkalies

**HAZARDOUS REACTIONS/DECOMPOSITIONS:** Oxides and acids of Phosphorous

**CONDITIONS TO AVOID:** None

## HEALTH HAZARD DATA

### INHALATION:

Dusts may be irritating to the nose, throat, and respiratory tract.

**SKIN CONTACT:** Causes skin irritation.

**EYE CONTACT:** Causes eye irritation.

### INGESTION:

May be harmful by swallowing. Large doses may cause nausea, vomiting, and diarrhea. Systemic oral toxicity is extremely rare and has consisted of acidosis and hypocalcemic tetany.

**CHRONIC EXPOSURE EFFECTS:** Not information available.

### EXISTING MEDICAL CONDITIONS POSSIBLY AGGRAVATED BY EXPOSURE:

Skin irritation may be aggravated in persons with existing skin lesions. Breathing of dust may aggravate acute or chronic asthma and other chronic pulmonary disease.

**EXPOSURE LIMITS:** No exposure limits have been established for this product. However, the following limits may apply. (nuisance dust)

ACGIH (TWA) = 10 mg/m<sup>3</sup> total dust

OSHA (TWA) = 15 mg/m<sup>3</sup> total dust, 5 mg/m<sup>3</sup> respirable dust

**IRRITANCY:** Mildly acidic.

**MUTAGENICITY:** Not available

### CARCINOGENICITY:

This product does not contain any ingredient designated by IARC, NTP, ACGIH, or OSHA as a probable human carcinogen.

**SENSITIZATION TO PRODUCT:** Not reported as a sensitizer.

**REPRODUCTIVE TOXICITY:** Not available

**TOXICOLOGICALLY SYNERGISTIC MATERIALS:** No reported effects

**TERATOGENICITY DATA:** No reported effects

**ANIMAL TOXICITY DATA:** Oral LD50 (mouse): 2650 mg/kg  
Skin effects(rabbits): Moderate irritant (24 hrs.)  
Eye effects(rabbits): Extremely irritating  
(unwashed eye).  
Mildly irritating(washed eye)

## FIRST AID MEASURES

### INHALATION:

Remove victim to fresh air. If not breathing administer cardiopulmonary resuscitation or artificial respiration. If breathing difficult or irritation develops, administer oxygen. Get medical attention if respiratory irritation occurs or if breathing becomes difficult.

### SKIN CONTACT:

Flush all affected area with plenty of water for at least 15 minutes. Remove and wash any contaminated clothing and shoes. Get medical attention if skin irritation occurs.

**FIRST AID MEASURES - continued**

**EYE CONTACT:**

In case of contact, immediately flush with plenty of water for at least 15 minutes using an eyewash fountain if available. Lift upper and lower lids and rinse well under them. Get medical attention, preferably an ophthalmologist if irritation occurs.

**INGESTION:**

If victim is conscious and alert, give two or more glasses of water or milk to drink. If available, give one tablespoon of Syrup of Ipecac to induce vomiting. If vomiting has not occurred in 20 minutes, the same amount of Syrup of Ipecac may be repeated one additional time. Alternatively, induce vomiting by touching the back of the throat with a finger. Do not make an unconscious or convulsing person vomit. Get medical attention.

**NOTES TO PHYSICIANS:**

All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred. Systemic oral toxicity is unusual. If a large quantity is ingested, test for hypocalcemia and treat with 10 ml. of 10% calcium gluconate by slow intravenous infusion, if necessary. Ingestion of large amounts may rarely result in metabolic acidosis which may require treatment with parenteral sodium bicarbonate.

**PREVENTATIVE MEASURES**

**RESPIRATORY PROTECTION:**

If use conditions generate airborne dust, handle material in an open or well-ventilated area. Where adequate ventilation is not available, use a NIOSH/MSHA approved respirator for dust. Use positive pressure supplied air or self-contained breathing apparatus for emergency conditions where a higher level of protection is required.

**SKIN PROTECTION:** Work clothing. Chemical resistant gloves and boots.

**EYE/FACE PROTECTION:** Safety glasses with side shields.

**SPECIAL HANDLING PROCEDURES:**

Do not ingest. Avoid contact with skin and eyes. Avoid exposure by inhalation.

**STORAGE REQUIREMENTS:**

Should be stored in a cool, dry place in tightly closed containers.

**ENGINEERING CONTROLS:**

Provide adequate ventilation. Use local exhaust as needed to maintain airborne exposure below control limits.

**SPECIAL SHIPPING REQUIREMENTS:** None

**OTHER PRECAUTIONS:**

Maintain a sink, safety shower, and eyewash fountain in the work area. Have oxygen readily available.

**ENVIRONMENTAL PROTECTION DATA**

**STEPS IN THE EVENT OF A LEAK OR SPILL:**

Persons involved in clean-up should wear appropriate protective equipment. Small spills can be handled routinely. To the extent possible, clean up spillage using shovels, sweeping, or vacuuming. Avoid dust generation. Place in appropriate containers for disposal. Wash area with a solution of household detergent. Do not flush material to a public sewer system or any waterways. Ensure adequate decontamination of tools and equipment following cleanup.

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**ENVIRONMENTAL PROTECTION DATA - continued**

**ENVIRONMENTAL EFFECTS:** Not available

**DEACTIVATING CHEMICALS:** Not available

**WASTE DISPOSAL METHODS:**

Dispose of in accordance with Local, Provincial, and Federal regulation.

**PREPARATION INFORMATION**

**MSDS PREPARED BY:** Technical Department  
Panther Industries Inc.

**TELEPHONE NUMBER:** (306) 567-2814

**DATE PREPARED/REVISED:** March 4, 2007

**DATE PRINTED:** March 4, 2007

**REFERENCES:** 1. Manufacturer's MSDS.