



**Boon Stream Chem International**

**Trade Co., Limited**

## **MSDS Material Safety Data Sheet**

**Address:** No.859, Dongzikou Road, Jinniu District, Chengdu City, Sichuan Province, P.R.C

### **TETRASODIUM PYROPHOSPHATE (TSPP)**

Info safe No. 1CHCN Issue Date: August 2003 RE-ISSUED by CHEMSUPP

Product Name: TETRA-SODIUM PYROPHOSPHATE (Food Grade)

Classified as hazardous according to criteria of NOHSC

#### **COMPANY DETAILS**

Company Name **BOON STREAM CHEM INTERNATIONAL TRADE  
CO., LIMITED**

Address **NO.859 DONGZIKOU ROAD, JINNIU  
DISTRICT, CHENGDU, SICHUAN, P.R. CHINA**

#### **Information**

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#### **IDENTIFICATION**

Product Name **tetra-SODIUM PYROPHOSPHATE Anhydrous**

Other Names Name Mancode

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tetra-SODIUM PYROPHOSPHATE  
Anhydrous Fine Granular Food Grade  
TP045

Sodium diphosphate  
Sodium pyrophosphate  
TSPP

tetra-SODIUM PYROPHOSPHATE  
Anhydrous LR  
TL045

Pyro  
UN Number None Allocated  
DG Class None Allocated  
Packing Group None Allocated  
Hazchem Code None Allocated  
Poisons Schedule Not Scheduled

Product Use Water softening agent; soap and synthetic detergent builder; dispersing and emulsifying agent, metal cleaner, boiler water treatment, viscosity control of drilling muds, de-inking news print, synthetic rubber manufacture, textile dyeing, scouring of wool, buffer, sequestrant; nutrient supplement, food additive and laboratory reagent.

Physical Data

Appearance Colourless, transparent crystals or white powder.

Melting Point 880 °C

Specific Gravity 2.45

Solubility in

Water

Soluble in water.

Other Properties

Corrosiveness May attack aluminum, iron and other reactive metals.

pH Value 10.2 (1% solution)

Solubility in

Organic Solvents

Decomposes in alcohol.

Form Solid

Stability Stable.

Haz.

Polymerization

Will not occur.

Materials to

Avoid

Strong acids.

Formula  $\text{Na}_4\text{P}_2\text{O}_7$  ( $2\text{Na}_2\text{O} \cdot \text{P}_2\text{O}_5$ )

Molecular

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Weight

265.90

Ingredients

Ingredients Name CAS Proportion

Tetra-sodium

pyrophosphate

7722-88-5 95-100 %

## HEALTH HAZARD INFORMATION

Health Effects

Acute -

Swallowed

Large amounts may cause diarrhoea, nausea, vomiting, cramps and abdominal pain.

May cause irritation to mouth and digestive tract.

Acute - Eye Irritating to eyes. May cause severe pain.

Acute - Skin Irritating to skin. May cause redness and itching.

Acute - Inhaled Irritating to respiratory system. May cause coughing and choking.

Chronic Repeated or prolonged skin contact may cause chronic dermatitis.

First Aid

Swallowed Rinse mouth thoroughly with water immediately. Give water to drink. DO NOT

induce vomiting. If vomiting occurs give further water to achieve effective dilution.

Seek immediate medical assistance.

Eye Immediately irrigate with copious quantity of water for at least 15 minutes.

Eyelids

to be held open. Seek immediate medical assistance.

Skin Wash affected areas with copious quantities of water immediately. Remove contaminated clothing and wash before re-use. Seek medical attention.

As quickly as possible, flush contaminated area with lukewarm, gently running water for at least 20 minutes, by the clock. Under running water, remove contaminated clothing, shoes, and leather goods (e.g., watchbands, belts). If irritation persists, repeat flushing. Obtain medical attention immediately. Completely decontaminate clothing, shoes and leather goods before re-use or discard.

Inhaled Remove victim to fresh air. Seek medical advice if effects persist.

First Aid

Facilities

Maintain eyewash fountain and drench facilities in work area.

Advice to Doctor

Advice to Doctor Treat symptomatically. Consult Poisons Information Centre.

Other Health Hazard Information

## PRECAUTIONS FOR USE

Exposure Limits Name mg/m<sup>3</sup>

(STEL)

ppm

(STEL)

mg/m<sup>3</sup>

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(TWA)

ppm

(TWA)

TWA

Footnote

Tetra-sodium

pyrophosphate

5

Other Exposure

Info.

TWA: 5 mg/m<sup>3</sup> - Tetrasodium pyrophosphate - Worksafe Aust.

Eng. Controls Maintain concentration below recommended exposure limit. Local exhaust

ventilation system may be required.

Personal Protection

Respirator Type

(AS 1716)

Where ventilation is not adequate, respiratory protection may be required. Avoid breathing vapours or mists. Select and use respirators in accordance with AS 1716 - Respiratory Protective Devices and be selected in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. When mists or vapours exceed the exposure standards then the use of the following is recommended: Approved respirator with organic vapour and dust/mist filters. Filter capacity and respirator type depends on exposure levels.

Eye Protection The use of a face shield, chemical goggles or safety glasses with side shield

protection as appropriate. Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336.

Glove Type Hand protection should comply with AS 2161 Industrial Safety Gloves and Mittens

(Excluding Electrical and Medical Gloves).

Clothing Wear suitable protective clothing and gloves to prevent skin contact.

Clothing for

protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.

Work/Hygienic

Practices

Do not eat, drink or smoke in work areas. Wash hands thoroughly after handling this material.

Flammability

Fire Hazards Non combustible material.

SAFE HANDLING INFORMATION

Storage and Transport

Storage

Precautions

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Store in a cool, dry place. Store away from acids. Keep containers securely sealed and protected against physical damage.

#### Spills and Disposal

Spills & Disposal Do NOT touch or walk through this product. Stop leak if safe to do so. Prevent entry

into waterways, drains, confined areas. Contain with DRY earth, sand or other non-combustible material. Use clean, non-sparking tool to collect material and place it into loosely-covered plastic containers for later disposal. Flush area with plenty of water.

#### Fire/Explosion Hazard

Fire/Explos.

#### Hazard

Material does not burn. Fire or heat may produce irritating, poisonous and/or corrosive gases. Containers may explode when heated. Runoff may pollute waterways.

#### Hazardous

#### Decomposition or

#### Byproducts

Toxic fumes of phosphorus oxide and phosphine.

#### Fire Fighting

#### Procedures

Use measures suitable for extinguishing surrounding fire.

#### Hazardous

#### Reaction

May react violently with strong acids.

Hazchem Code None Allocated

#### OTHER INFORMATION

Risk Statement R36/37/38 Irritating to eyes, respiratory system and skin.

Safety Statement S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36 Wear suitable protective clothing.

Hazard Category Irritant

References Commonwealth Department of Health and Aged Care, 'Standard for the Uniform

Scheduling of Drugs and Poisons No. 17', Commonwealth of Australia, Canberra 2002.

Lewis, Richard J. Sr. 'Hawley's Condensed Chemical Dictionary 13th. Ed.', Rev., John Wiley & Sons, Inc., NY, 1997.

National Road Transport Commission, 'Australian Dangerous Goods Code 6th. Ed.', AGPS, Canberra, 1998.

South Australia Government, 'Approved Code of Practice for the Labelling of Workplace Substances', 1995.

Standards Australia, 'SAA/SNZ HB76:1997 Dangerous Goods - Initial Emergency Response Guide', Standards Australia/Standards New Zealand, 1997.

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Worksafe Australia, 'Approved Criteria for Classifying Hazardous Substances [NOHSC:1008(1999)]', AusInfo, Canberra 1999.

Worksafe Australia, 'List of Designated Hazardous Substances [NOHSC:10005(1999)]', AusInfo, Canberra 1999.

Worksafe Australia, 'National Code of Practice for the Labelling of Workplace Substances [NOHSC:2012(1994)]', AGPS, Canberra 1994.

Worksafe Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)]', AusInfo, Canberra 1995.

User Codes User Code

Risk Phrases 36/37/38

Safety Phrases 26-36

CAS No. 7722-88-5

Empirical

Formula

& Structural

Formula

Na<sub>4</sub>P<sub>2</sub>O<sub>7</sub> (2Na<sub>2</sub>O.P<sub>2</sub>O<sub>5</sub>)

CONTACT POINT

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