## Material Safety Data Sheet

Date Printed: 24/MAY/2005 Date Updated: 14/MAR/2004 Version 1.4 According to 91/155/EEC

Classified as Hazardous according to the criteria of EU Annex 1 and NOHSC.

# 1 - Product and Company Information

Product Name Product Number	SODIUM TETRAPHENYLBORATE 72022
Company	Sigma-Aldrich Pty, Ltd Unit 2, 14 Anella Avenue Castle Hill NSW 1765 Australia
Technical Phone # Fax Emergency Phone #	+61 2 9841 0555 +61 2 9841 0500 +61 2 9841 0566

## 2 - Composition/Information on Ingredients

Product Name		CAS #	EC no	Annex I Index Number
SODIUM TETRAPHENYLBORATE		143-66-8	205-605-5	
Formula Molecular Weight Synonyms	C24H20B.Na 342.23 AMU Borate(1-), te * Kalignost * tetraphenylbor	Kariporu K * S	Sodium cetraphenylb	orate(1-)

\* Sodium tetraphenylborate (NaPh4B) \* Sodium tetraphenylboride \* Sodium tetraphenylboride(1-) \* Sodium tetraphenylboron \* Tetraphenyl boron sodium salt \* Tetraphenyl sodium borate

## 3 - Hazards Identification

SPECIAL INDICATION OF HAZARDS TO HUMANS AND THE ENVIRONMENT Harmful if swallowed.

# 4 - First Aid Measures

## AFTER INHALATION

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

# AFTER SKIN CONTACT

In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.

### AFTER EYE CONTACT

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

#### AFTER INGESTION

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

# 5 - Fire Fighting Measures

## EXTINGUISHING MEDIA

Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

#### SPECIAL RISKS

Specific Hazard(s): Emits toxic fumes under fire conditions.

## SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

## 6 - Accidental Release Measures

PERSONAL PRECAUTION PROCEDURES TO BE FOLLOWED IN CASE OF LEAK OR SPILL Evacuate area.

## PROCEDURE(S) OF PERSONAL PRECAUTION(S)

Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.

## METHODS FOR CLEANING UP

Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

## 7 - Handling and Storage

### HANDLING

Directions for Safe Handling: Do not breathe dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

## **STORAGE**

Conditions of Storage: Keep tightly closed.

SPECIAL REQUIREMENTS: Light sensitive.

# 8 - Exposure Controls / Personal Protection

## ENGINEERING CONTROLS

Safety shower and eye bath. Mechanical exhaust required.

## GENERAL HYGIENE MEASURES

Wash thoroughly after handling.

## PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection: Government approved respirator. Hand Protection: Compatible chemical-resistant gloves. Eye Protection: Chemical safety goggles.

# 9 - Physical and Chemical Properties

Appearance Physical State: Solid

Property Value At Temperature or Pressure

```
20 °C
                        8
Нq
BP/BP Range
                       N/A
MP/MP Range
                       N/A
Flash Point
                       N/A
Flammability
                       N/A
Autoignition Temp
                      N/A
Oxidizing Properties
                       N/A
Explosive Properties
                       N/A
Explosion Limits
                       N/A
Vapor Pressure
                       N/A
SG/Density
                       N/A
Partition Coefficient N/A
Viscosity
                       N/A
Vapor Density
                       N/A
Saturated Vapor Conc. N/A
Evaporation Rate
                      N/A
Bulk Density
                       500 \text{ kg/l}
Decomposition Temp.
                      N/A
Solvent Content
                       N/A
Water Content
                       N/A
Surface Tension
                      N/A
                       N/A
Conductivity
Miscellaneous Data
                      N/A
Solubility
                       Solubility in Water: soluble 50 mg/ml H2O,
                       20°C
```

# 10 - Stability and Reactivity

## STABILITY

Stable: Stable.

Conditions to Avoid: Light.

Materials to Avoid: Strong oxidizing agents.

# HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide, Boron oxides.

## HAZARDOUS POLYMERIZATION

Hazardous Polymerization: Will not occur

# 11 - Toxicological Information

RTECS NUMBER: ED3362500

## ACUTE TOXICITY

LD50

Oral

Rat

288 mg/kg

Remarks: Behavioral: Muscle weakness. Nutritional and Gross

Metabolic: Weight loss or decreased weight gain.

## SIGNS AND SYMPTOMS OF EXPOSURE

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

### ROUTE OF EXPOSURE

Skin Contact: May cause skin irritation.

Skin Absorption: May be harmful if absorbed through the skin.

Eye Contact: May cause eye irritation.

Inhalation: Material may be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.

Ingestion: Harmful if swallowed.

# 12 - Ecological Information

No data available.

# 13 - Disposal Considerations

#### SUBSTANCE DISPOSAL

Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

# 14 - Transport Information

## RID/ADR

Non-hazardous for road transport.

## **IMDG**

Non-hazardous for sea transport.

Non-hazardous for air transport.

# 15 - Regulatory Information

## CLASSIFICATION AND LABELING ACCORDING TO EU DIRECTIVES

INDICATION OF DANGER: Xn

Harmful.

R-PHRASES: 22

Harmful if swallowed.

# 16 - Other Information

## WARRANTY

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Inc., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. Copyright 2005 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.

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