



MATERIAL SAFETY DATA SHEET

LogiBor 88

SECTION 01 – PRODUCT AND COMPANY INFORMATION

Product NameLogiBor 88
SynonymsSodium Tetraborate, Anhydrous Borax, Sodium Pyroborate, Sodium Biborate
Product CodeLogiBor88
Product UseSoldering, manufacture of glazes and enamels, tanning, fluxes
Supplier NameLogiChem Pty Ltd incorporating Jostek Chemicals
Address13 Brinsden Road, off Craig Road, West Kalgoorlie, Australia
PO Box 878 Kalgoorlie WA 6433 Australia
Phone(08) 9091-7708
Fax(08) 9091-7709
24 Hour Emergency Phone(08) 9091-7708

SECTION 02 – COMPOSITION

Chemical Components	Cas No.	Proportion
Sodium Tetraborate	[1330-43-4]	>99%

SECTION 03 – HAZARDS IDENTIFICATION

Not Hazardous According to Criteria of Worksafe Australia

Hazard CategoryNot applicable

Risk PhrasesR25 Toxic if swallowed.
R36 Irritating to eyes.
R37 Irritating to respiratory system.

Safety PhrasesS25 Avoid contact with eyes.
S22 Do not breathe dust.

Classified as Not Dangerous Goods According to the Criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road or Rail.

Poison Schedule (Aust) / Toxic Substance (NZ)5

SECTION 04 – FIRST AID MEASURES

Ensure an eye bath and safety sower are available and ready for use.

IngestionContact a doctor or Poisons Information Centre. Phone 13 1126. If more than 15 minutes from a doctor or hospital induce vomiting, preferably with syrup of Ipecac.

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Eye Hold affected eye open under running water for 15 minutes. See medical advice.

Skin Remove contaminated clothing and wash affected area well with running water. If irritation persists see a doctor.

Inhalation Remove patient to fresh air and keep warm and rested.

Advice to Doctor Observation only for adult ingestion of less than 5 grams. For ingestion of more than 5 grams, maintain adequate kidney function and force fluids. Gastric lavage is recommended for symptomatic patients only. Haemodialysis should be reserved for massive acute ingestion or patients with renal failure.

SECTION 05 – FIRE FIGHTING MEASURES

Flammability Not flammable. Not combustible.

Extinguishing Media Fire fighters should wear full protective equipment including self-contained breathing apparatus. Use measures appropriate to the surrounding fire.

Fire fighting procedures Reacts with strong reducing agents such as metal hydrides or alkali metals to generate hydrogen gas which could create an explosion hazard.

Fire explosion hazard Reacts with strong reducing agents such as metal hydrides or alkali metals to generate hydrogen gas which could create an explosion hazard.

SECTION 06 – ACCIDENTAL RELEASE MEASURES

Leak / Spill Clean-up personnel should wear full protective equipment. Shut off spill if possible. Collect the spilled material by sweeping up (avoid generating dust) and place in clean labelled containers for disposal or salvage. Small spills and residues may be flushed to drain with excess water.

SECTION 07 – HANDLING & STORAGE

Storage Store in cool, dry, well ventilated area. Reseal container after use. store away from foodstuffs. Not regulated for transport.

SECTION 08 – PERSONAL PROTECTION AND EXPOSURE CONTROLS

NOHSC (Worksafe) exposure: Borate, Tetrasodium salt: TWA 1mg/m³.

Personal Protective Equipment

Eyes Wear chemical safety goggles.

Gloves Natural rubber or neoprene gloves.

Clothing PVC apron.

Footwear Rubber boots.

Other Respiratory protection where an inhalation hazard exists, use a articulate dust respiratory selected to AS 1715, typically a P2 or P3 class respirator.

Engineering Controls

Ventilation requirements Ensure adequate ventilation.

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SECTION 09 – PHYSICAL AND CHEMICAL PROPERTIES

Form / Colour / Odour White glassy crustalline solid
Formula B₄Na₂O₇
pH 9.2
Water Solubility 2 at 25 °C
Melting Point (C) 742 °C
Boiling Point (C) N/A
Flash Point (C) PMCC N/A
Specific Gravity (Water = 1) 2.37
Vapour Pressure (hPa @ 20°C)... N/A

SECTION 10 – STABILITY AND REACTIVITY

Stability

Incompatibility

SECTION 11 – TOXICOLOGICAL INFORMATION

Toxicity Data

Sodium tetraborate: An adult lethal dose is greater than 15 to 20g (5-10g for children).

Oral-Rat LD₅₀ 2400-2600 mg/kg

Dermal LD₅₀ (rabbit) >2000 mg/kg.

Ingestion of large does may cause gastrointestinal irritation, kidney injury and may result in death from CNS depression.

Acute Health Effects

Ingestion Ingestion of Boras is considered toxic. Symptoms include depressed circulation, vomiting, diarrhoea followed by collapse into coma followed by death.

Eye Sever irritant to the eye.

Skin Mildly irritating to the skin. May cause redness and itchiness after prolonged contact.

Inhalation Dust is irritating to the upper respiratory tract and amy have harmful effects.

Chronic Health Effects

Boron containing compound have been found to cause genetic abnormality in offspring during animal testing.

SECTION 12 – ECOLOGICAL INFORMATION

Sodium tetraborate: Alga toxicity (green algae, Scenedesmus subspicatus) 96h EC₁₀ = 24 mg B/L.

Invertebrate toxicity: Daphnids (Daphnia Magna Stratus) 24h LC₅₀: 242 mg B/L. Fish toxicity: Sea water (Dab, Limanda) 96 h LC₅₀: 88 mg B/L: 32 day LC₅₀: 54 mg B/L. Sodium tetraborate decomposes in the environment to natural borate and is soluble in water and leachable through normal soil.



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SECTION 13 – DISPOSAL CONSIDERATIONS

Disposal in accordance with all federal, local and state regulations.

SECTION 14 – TRANSPORTATION INFORMATION

Proper Shipping Name..... N/A
UN Number N/A
Dangerous Goods Class N/A
Subsidiary Risk N/A
Packaging Group N/A
Hazchem Code N/A
Emergency Procedure Guide..... N/A
Label Borax Anhydrous

SECTION 15 – OTHER INFORMATION

Contact Person Jonty Eales – General Manager
Telephone 08 9091-7708 (24 hours)

Note: The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations.