

MATERIAL SAFETY DATA SHEET BORAX (POWDER)

1. Identification of the substance

Product Name: BORAX (POWDER) – Sodium Tetraborate Decahydrate
CAS-No. 1303-96-4
EC NO. 215-540-4
Product ID: BX ~~~
Application: General Chemical Reagent

2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
Sodium Tetraborate Decahydrate	1303-96-4	100

Toxicological Data on Ingredients:

3: Hazards Identification

Potential Acute Health Effects: May impair fertility. May cause harm to the unborn child Potential

Chronic Health Effects:

CARCINOGENIC EFFECTS: Not available.

MUTAGENIC EFFECTS: Not available.

TERATOGENIC EFFECTS: Not available.

DEVELOPMENTAL TOXICITY: Not available.

4: First Aid Measures

Inhalation:

Remove victim immediately from source of exposure. Provide rest, warmth and fresh air. In case of severe exposure or if any discomfort continues get medical attention.

Ingestion:

Rinse mouth thoroughly. Get medical attention.

Skin contact:

Remove contaminated clothing and wash before re - use. Wash skin thoroughly with soap and water. In serious cases or if discomfort continues after slight contact obtain medical attention.

Eye contact:

Promptly wash eyes with plenty of water or eyewash solution while lifting the eyelids. Remove contact lenses if possible. Get medical attention if any discomfort continues.

5: Fire and Explosion Data

Extinguishing:

The product is non-combustible. Use fire-extinguishing media appropriate for surrounding materials.

Protective measures in fire:

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

6: Accidental Release Measures

Personal precautions:

Wear protective clothing as described in Section 8 of this safety data sheet.

Spill clean-up methods:

Avoid dust formation. Small Spillages: Carefully remove with scoop or shovel if safe to do so and transfer to waste containers. Large Spillages: Contain and mix spillage with sand or other inert absorbent. Collect spillage in containers, seal securely and deliver for disposal according to local

regulations. Wash spillage site well with water and detergent, be aware of the potential for surfaces to become slippery. Wash thoroughly after dealing with a spillage.

7: Handling and Storage

Usage precautions: Avoid spilling, skin and eye contact.

Storage precautions: Store in tightly closed original container in a dry and cool place.

Storage class: Chemical storage.

8: Exposure Controls/Personal Protection

Engineering measures: Provide adequate ventilation, including appropriate local extraction, to ensure that the defined workplace exposure limit (WEL) is not exceeded.

Respiratory equipment: In case of inadequate ventilation use suitable respirator. Wear respirator if there is dust formation.

Hand protection: Use protective gloves made of: Rubber or plastic.

Eye protection: Wear safety glasses. Use tight fitting goggles if dust is generated.

Other protection: Wear suitable protective clothing as protection against splashing or contamination. Provide eyewash station and safety shower.

Hygiene measures: Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Wash promptly if skin becomes contaminated. When using do not eat, drink or smoke.

9: Physical and Chemical Properties

Appearance:	Solid
Colour	White
Odour:	Odourless
Solubility:	Soluble in water.
Melting point:	Approx. 743°C
Relative density:	1.73 g/cm ³
Ph-value, conc. Solution:	9.2 (1% Solution)

10: Stability and Reactivity Data

Stability: Stable.

Materials to avoid: Alkali metals, anhydrides.

11: Toxicological Information

Ingestion:	Toxic Dose - LD50 in rats is 4500 - 6000 mg/kg (oral)
Inhalation skin contact:	LC50 in rats is greater than 2.0 mg/L (or g/m ³). Slightly irritating. May cause irritation to the respiratory system.
Ingestion eye contact:	Nausea, vomiting. Diarrhoea. Irritating to eyes.

12: Ecological Information

Ecotoxicity: Ecological effects cannot be excluded in the event of improper handling or disposal.

Bioaccumulation: Low bioaccumulation potential.

13: Disposal Considerations

Disposal methods: Dispose of waste and residues in accordance with local authority requirements.

14: Transport Information

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

No transport warning sign required.

15: Other Regulatory Information

Risk phrases:	R60 May impair fertility. R61 May cause harm to the unborn child.
Safety phrases:	NC Not classified.
Statutory instruments:	Chemicals (Hazard Information and Packaging) Regulations. Control of Substances Hazardous to Health.
Approved code of practice:	Classification and Labelling of Substances and Preparations Dangerous for Supply. COSHH essentials: Easy steps to control chemicals. Control of Substances Hazardous to Health Regulations.
Guidance notes:	Workplace Exposure Limits EH40. Introduction to Local Exhaust Ventilation HS(G)37.
National regulations:	Control of Substances Hazardous to Health Regulations 2002 (as amended)

16. Other Information

References: Not available.

Other Special Considerations: Not available.

EXCLUSION OF LIABILITY

All information and instructions provided in this Material Safety Data Sheet in respect of the substance is given solely in terms of the provisions of the Occupational Health and Safety Act No 85 of 1993

and Regulations ("the Act"), is based on scientific and technical knowledge as at the date indicated on this MS Material Safety Data Sheet and is presented in good faith to be correct.

The information and instructions provided in this MSDS apply only to the substance in its present form and not to any formulation or mix, in which event it is the sole responsibility of the user of the substance as formulated and/or mixed to investigate and establish any danger which may arise out of its use, wherever such user may be situated.

It is the sole responsibility of the person in receipt of this Material Safety Data Sheet wherever such recipient may be situated, to ensure that the information provided is communicated to and understood by any person who may come in contact with the substance in any place and in any manner whatsoever. If such recipient produces formulations or mixes using the substance, then it is such recipient's sole responsibility to comply with the provisions of the Act in respect of the provision of the necessary Material Safety Data Sheet, or to comply with any other applicable legislation.