

MATERIAL SAFETY DATA SHEET**Product Name:** Sodium tetraborate decahydrate (Borax)**CAS No.:** 1303-96-4**Version:** 0**1. Identification**

Product Code : 90130, 90348
Company Name : Advent Chembio Private Limited
Address : W-288, MIDC, TTC INDUSTRIAL AREA, THANE-BELAPUR
ROAD, RABALE, NAVI MUMBAI - 400 701.
E-mail : info@adventchembio.com
WEBSITE : www.adventchembio.com
Company Phone Number : 022-27690837

2. Hazards Identification

Hazard classification
Reproductive toxicity : Category 1 B

Label elements

Hazard symbol



Signal word : Danger
Hazard statement : May damage fertility. May damage the unborn child.
Precautionary statement : Obtain special instructions before use.
IF exposed or concerned: Get medical advice/ attention.
Supplemental Hazard Statements : None.

3. Composition/information on ingredients

Ingredient	CAS No	PERCENT
Sodium tetraborate decahydrate (Borax)	1303-96-4	99.5 - 102.5%

MATERIAL SAFETY DATA SHEET**Product Name:** Sodium tetraborate decahydrate (Borax)**CAS No.:** 1303-96-4**Version:** 0**4. First Aid Measures****Description of first aid measures****General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance.

Inhalation

: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

Skin contact

: Wash off with soap and plenty of water. Consult a physician.

Eye contact

: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Swallowed

: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Most important symptoms and effects, both acute and delayed

: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11

Indication of any immediate medical attention and special treatment needed Treatment

: No data available

5. Fire fighting measures**Extinguishing media****Suitable extinguishing media**

: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Special hazards arising from the substance or mixture

: Borane/boron oxides, Sodium oxides

Advice for firefighters

: Wear self contained breathing apparatus for firefighting if necessary

Further information

: The product itself does not burn.

6. Accidental Release Measures**Personal precautions, protective equipment and emergency procedures**

: Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

Environmental precautions

: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up

: Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

MATERIAL SAFETY DATA SHEET**Product Name:** Sodium tetraborate decahydrate (Borax)**CAS No.:** 1303-96-4**Version:** 0**Reference to other sections** : For disposal see section 13.**7. Handling and Storage****Precautions for safe handling** : Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.**Conditions for safe storage, including any incompatibilities** : Store in cool place. Keep container tightly closed in a dry and well-ventilated place.**Specific end use(s)** : No data available**8. Exposure Controls Personal Protection****Control parameters****Components with workplace control parameters****Exposure controls****Appropriate engineering controls** : Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.**Personal protective equipment****Eye/face protection** : Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).**Skin Protection Hand protection** : Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.**Body Protection** : Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace..**Respiratory protection** : Respiratory protection is required.**9. Physical and Chemical Properties****Appearance** : A white crystalline powder.**Odor** : No data available**pH** : 9.2 at 10 g/l**Melting point/freezing point** : 62 °C**Initial boiling point and boiling range** : No data available**Flash Point** : No data available**Vapor pressure** : No data available

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Vapor density : No data available
Relative density : 1.73 g/cm³ at 25 °C
Solubility in water : 38.1 g/l at 20 °C - completely soluble
Solubility (other) : No data available
Formula : B₄Na₂O₇ · 10H₂O
Molecular Weight : 381.37 g/mol

10. Stability and Reactivity

Reactivity : No data available
Chemical stability : Stable under recommended storage conditions.
Possibility of hazardous reactions : No data available
Conditions to avoid : No data available
Incompatible materials : Strong oxidizing agents, Strong reducing agents
Hazardous decomposition products : No data available

11. Toxicological Information**Information on toxicological effects**

Acute toxicity : LD50 Oral - rat - 4.500 - 5.000 mg/kg
LD50 Dermal - rabbit - 10.000 mg/kg
Skin corrosion/irritation : No data available
Serious eye damage/eye irritation : No data available
Respiratory or skin sensitization : No data available
Germ cell mutagenicity : No data available
Carcinogenicity : No component of this product presents at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity : Presumed human reproductive toxicant
Specific target organ toxicity - single exposure : No data available
Specific target organ toxicity - repeated exposure : No data available
Aspiration hazard : No data available
Signs and Symptoms of Exposure : No data available

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Toxicity	:	Toxicity to fish LC50 - Carassius auratus (goldfish) - 178 mg/l – 72 h
Persistence and degradability	:	No data available
Bioaccumulative potential	:	No data available
Mobility in soil	:	No data available.
Other adverse effects	:	No data available.

13. Disposal consideration

Disposal instructions	:	Offer surplus and non-recyclable solutions to a licensed disposal company.
Contaminated packaging	:	Dispose of as unused product.

14. Transport Information

	UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
DOT			Not dangerous goods		
IMDG			Not dangerous goods		
IATA			Not dangerous goods		

15. Regulatory Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance or mixture
No Data Available.

16. Other Information**Issue Date :** 01/08/2014**Version :** 0

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