



HazTech Systems, Inc.

SAFETY DATA SHEET

Revision number: 2
Revision date: 05/06/2015

1. IDENTIFICATION

Product name: Sodium Tetraborate, Metal Analysis 2
Product code: RE2305, RE-MA2/RE2045
Synonyms: Sodium Borate, Decahydrate, Borax, Boric Acid, Disodium Salt
CAS: 1303-96-4
RTECS # Not available
CI#: Not available
Recommended use: Science education applications
Uses advised against: Not available

Company:

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Chemical Emergencies:

HazTech Systems, Inc. (8:00am - 5:00pm) PST
1-800-543-5487
Transportation Emergencies:
Chemtrec 24-Hour
1-800-424-9300 (U.S.A.)
1-703-527-3887 (International)

2. HAZARD IDENTIFICATION

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

DANGER



May damage fertility or the unborn child.

GHS Classification:

Reproductive Toxicity Category 1B

Other Safety Precautions:

IF exposed or concerned: Get medical advice/attention.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS #	%
Sodium Tetraborate, 10-hydrate	1303-96-4	100

4. FIRST AID MEASURES

Emergency and First Aid Procedures

Inhalation: In case of accident by inhalation: remove casualty to fresh air and keep at rest.
Eyes: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Skin Contact: After contact with skin, wash immediately with plenty of water.
Ingestion: If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label.

5. FIREFIGHTING MEASURES

Extinguishing Media: Use dry chemical, CO2 or appropriate foam.
Firefighting Methods and Protection: Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.
Fire and/or Explosion Hazards: None Known
Hazardous Combustion Products: Boron Compounds

6. ACCIDENTAL RELEASE MEASURES

Steps to Take in Case Material Is Released or Spilled: No health affects expected from the clean-up of this material if contact can be avoided. Follow personal protective equipment recommendations found in Section 8 of this MSDS. Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

7. HANDLING AND STORAGE

Handling: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required.
Storage: Store locked up. Keep container tightly closed in a cool, well-ventilated place.
Storage Code: Green - general chemical storage

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<u>Chemical Name</u>	<u>ACGIH</u>		<u>OSHA PEL</u>	
	<u>(TWA)</u>	<u>(STEL)</u>	<u>(TWA)</u>	<u>(STEL)</u>
Sodium Tetraborate, 10-hydrate	2 mg/m3 TWA (inhalable fraction, listed under Borate compounds, inorganic)	6 mg/m3 STEL (inhalable fraction, listed under Borate compounds, inorganic)	N/A	N/A

Control Parameters

Engineering Measures: Local exhaust ventilation or other engineering controls are normally required when handling or using this product to avoid overexposure.

Personal Protective Equipment (PPE): Lab coat, apron, eye wash, safety shower.

Respiratory Protection: Respiratory protection may be required to avoid overexposure when handling this product. General or local exhaust ventilation is the preferred means of protection. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms.

Respirator Type(s): NIOSH approved air purifying respirator with dust/mist filter.

Eye Protection: Wear chemical splash goggles when handling this product. Have an eye wash station available.

Skin Protection: Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

Gloves: No information available

9. PHYSICAL AND CHEMICAL PROPERTIES

Formula:	Na ₂ B ₄ O ₇ · 10H ₂ O	Vapor Pressure:	No data available
Molecular Weight:	381.37	Evaporation Rate (BuAc=1):	No data available
Appearance:	White Crystalline Solid	Vapor Density (Air=1):	No data available
Odor:	None	Specific Gravity:	1.73
Odor Threshold:	No data available	Solubility in Water:	Soluble
pH:	9.3 at 20 deg C (3% solution)	Log Pow (calculated):	No data available
Melting Point:	75 C	Autoignition Temperature:	No data available
Boiling Point:	No data available	Decomposition Temperature:	No data available
Flash Point:	No data available	Viscosity:	No data available
Flammable Limits in Air:	No data available	Percent Volatile by Volume:	No data available

10. STABILITY AND REACTIVITY

Reactivity:	Not generally reactive under normal conditions.
Chemical Stability:	Stable under normal conditions.
Conditions to Avoid:	None known.
Incompatible Materials:	Alkaloidol Salts, Metal Salts
Hazardous Decomposition Products:	Boron Compounds
Hazardous Polymerization:	Will not occur

11. TOXICOLOGICAL INFORMATION

Routes of Entry	Inhalation and ingestion.			
Symptoms (Acute):	Dermatitis, Central Nervous System Depression, Nausea, Respiratory Irritation			
Delayed Effects:	Respiratory Irritation			
Acute Toxicity:				
Chemical Name	CAS Number	Oral LD50	Dermal LD50	Inhalation LC50
Sodium Tetraborate, 10-hydrate	1303-96-4	ORAL LD50 Rat 2660 mg/kg	Not applicable	Not applicable
Carcinogenicity:				
Chemical Name	CAS Number	IARC	NTP	OSHA
Sodium Tetraborate, 10-hydrate	1303-96-4	Not listed	Not listed	Not listed
Chronic Effects:				
Mutagenicity:	No evidence of a mutagenic effect.			
Teratogenicity:	No evidence of a teratogenic effect (birth defect).			
Sensitization:	No evidence of a sensitization effect.			
Reproductive:	Evidence of negative effects on the unborn fetus.			
Target Organ Effects:				
Acute:	Toxic effects are amplified in infants.			
Chronic:	No information available			

12. ECOLOGICAL INFORMATION

Overview:	Slight ecological hazard. In high concentrations, this product may be dangerous to plants and/or wildlife.
Mobility:	This material is expected to have moderate mobility in soil. It absorbs to most soil types.
Persistence:	Adsorbs to soil., Dissolved into water
Bioaccumulation:	Bioconcentration may occur. Material may accumulate in flora.
Degradability:	Does not biodegrade readily.
Other Adverse Effects:	Material has microbiocidal properties.
Chemical Name	CAS Number Eco Toxicity
Sodium Tetraborate, 10-hydrate	1303-96-4

13. DISPOSAL CONSIDERATIONS

Disposal Methods:	Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.
Waste Disposal Code(s):	Not Determined

14. TRANSPORT INFORMATION

Ground - DOT Proper Shipping Name:	Air - IATA Proper Shipping Name:
Not regulated for transport by US DOT.	Not regulated for air transport by IATA.

Product Code(s) RE2305
Sodium Tetraborate, 10-hydrate

Revision Date 05/06/15

15. REGULATORY INFORMATION

TSCA Status: All components in this product are on the TSCA Inventory.

Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
Sodium Tetraborate, 10-hydrate	1303-96-4	No	No	No	No	No

16. OTHER INFORMATION

Revision Date: 05/06/2015

Prepared by: HazTech Systems, Inc.

This information is based on HazTech Systems, Inc.'s, current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product