

LTS Research Laboratories, Inc. Safety Data Sheet Sodium Tetraborate

1. Product and Company Identification		
Trade Name:	Sodium Tetraborate	
Chemical Formula:	$Na_2B_4O_7$	
Recommended Use:	Scientific research and development	
Manufacturer/Supplier:	LTS Research Laboratories, Inc.	
Street:	37 Ramland Road	
City:	Orangeburg	
State:	New York	
Zip Code:	10962	
Country:	USA	
Tel #:	855-587-2436 / 855-lts-chem	
24-Hour Emergency Contact:	800-424-9300 (US & Canada)	
	+1-703-527-3887 (International)	
	2. Hazards Identification	
Signal Word:	Danger	
	interavries, inc.	
Hazard Statements:	H319: Causes serious eye irritation	
	H360: May damage fertility or the unborn child	
	H402: Harmful to aquatic life	
Precautionary Statements:	P202: Do not handle until all safety precautions have been read and understood	
	P264: Wash face, hands and any exposed skin thoroughly after handling	
	P273: Avoid release to the environment	
	P280: Wear protective gloves/protective clothing/eye protection/face protection	
	P281: Use organ specific protection and personal protective equipmen as required	
	P305+P351+P338: If in eyes: Rinse cautiously with water for several	
	minutes. Remove contact lenses if present and easy to do. Continue rinsing	
	P308+P313: IF exposed or concerned: Get medical advice/attention	
	P337+P313: If eye irritation persists get medical advice/attention	
	P405: Store locked up	
	P501: Dispose of contents/container in accordance with	
	local/regional/national/international regulations	
HMIS Health Ratings (0-4):		
Health:	2	
Flammability:	0	
Physical:	N/A	

3. Composition		
Chemical Family:	Inorganic Material	
Additional Names:	Borax fused	
Sodium Tetraborate (Na ₂ B ₄ O ₇):		
Percentage:	100 wt%	
CAS #:	1330-43-4	
EC #:	215-540-4	
	4. First Aid Procedures	
General Treatment:	Seek medical attention if symptoms persist.	
Special Treatment:	None	
Important Symptoms:	None	
Inhalation:	Remove victim to fresh air. Supply oxygen if breathing is difficult. Seek immediate medical attention.	
Ingestion:	Give one to two glasses of water. Never induce vomiting or give anything by mouth to an unconscious person. Seek immediate medical attention.	
Skin:	Wash affected area with mild soap and water. Remove any contaminated clothing. Seek immediate medical attention.	
Evos	Flush eyes with water, blinking often for several minutes. Remove	
Eyes:	contact lenses if present and easy to do. Continue rinsing. Seek	
	immediate medical attention.	
	minediate incurcar attention.	
	5. Firefighting Measures	
	Non-flammable toratorias, Inc.	
Flammability:	Non-manimable of each lob, max	
Extinguishing Media:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide	
Spec. Fire Fighting Procedure:	Use full-face, self-contained breathing apparatus with full protective	
speet The Fighting Freeduite.	clothing to prevent contact with skin and eyes. See section 10 for	
	decomposition products.	
	6. Accidental Release Measures	
If Material Is Released/Spilled:	Wear appropriate respiratory and protective equipment specified in	
	special protection information. Isolate spill area and provide	
	ventilation. Vacuum up spill using a high efficiency particulate	
	absolute (HEPA) air filter and place in a closed container for disposal.	
	Take care not to raise dust.	
Environmental Precautions:	Isolate runoff to prevent environmental pollution.	
	7. Handling and Storage	
Handling Conditions:	Wash thoroughly after handling.	
Storage Conditions:	Store in a cool dry place in a tightly sealed container. Store apart from	
Work/Hugionia Maintor	materials and conditions listed in section 10.	
Work/Hygienic Maintenance:	Do not use tobacco or food in work area. Wash thoroughly before	
	eating and smoking. Do not blow dust off clothing or skin with	
Ventilation:	compressed air. Provide sufficient ventilation to maintain concentration at or below	
v chulauoli.		
, enclution.	threshold limit.	

8. Exposure Controls and Personal Protection		
Permissible Exposure Limits:	5 mg/m^3 as Na ₂ B ₄ O ₇ , long-term value	
Threshold Limit Value:	2 mg/m^3 as Na ₂ B4O ₇ , long-term value	
Special Equipment:	None	
Respiratory Protection:	Dust Respirator	
Protective Gloves:	Nitrile rubber gloves	
Minimum layer thickness:	0.11 mm	
Break Through Time:	480 min	
Eye Protection:	Safety glasses or goggles	
Body Protection:	Protective work clothing. Wear close-toed shoes and long	
•	sleeves/pants.	
9.	Physical and Chemical Characteristics	
Color	White	
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts	
Odor:	Odorless	
Water Solubility:	31.7 g/L	
Boiling Point:	1575 °C	
Melting Point:	741 °C	
Flash Point:	N/A	
Autoignition Temperature:	N/A	
Density:	2.367 g/cc	
Molecular weight:	201.22 g/mol	
	10. Reactivity	
Stability:	Stable under recommended storage conditions	
Reacts With:	Oxidizing agents, Potassium, Acid anhydrides, water	
Incompatible Conditions:	Exposure to moisture	
Hazardous Decomposition Products:	Borane/boron oxides, Sodium oxides	
	11. Toxicological Information	
Potential Health Effects:		
Eyes:	Causes serious eye irritation	
Skin:	May cause irritation	
Ingestion:	May cause irritation	
Inhalation:	May cause irritation	
Chronic:	May damage fertility or the unborn child	
Signs & Symptoms:	Ingestion or absorption of borates may cause nausea, vomiting, abdominal cramps, diarrhea, erythematous lesions on the skin and mucous membranes, circulatory collapse, tachycardia, cyanosis, delirium, convulsions, and coma.	
Aggravated Medical Conditions:	N/A	
Median Lethal Dose:	LD50 Oral: 2500-2600 mg/kg for rat by mouth	
Carcinogen:	N/A	

	12. Ecological Information
Aquatic Toxicity:	Harmful
Persistent Bioaccumulation Toxicity:	N/A
Very Persistent, Very Bioaccumulative:	N/A
Notes:	LC50: 74 mg/L, 96 h, (Limanda limanda); LC50: 1085-1402 mg/L,
	Daphnia Magna
	13. Disposal Considerations
Dispose of in accordance with local, state,	national, and international regulations.
	14. Transportation Data
Hazardous:	Not hazardous for transportation
Hazard Class:	N/A
Packing Group:	N/A
UN Number:	N/A
Dropor Chipping Name	N/A
Proper Shipping Name:	
	15. Regulatory Information
Sec 302 Extremely Hazardous:	15. Regulatory Information No
Sec 302 Extremely Hazardous:	No

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

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