



Material Safety Data Sheet

NFPA	HMIS	Personal Protective Equipment
210	Health Hazard 2 Fire Hazard 1	
	Reactivity	See Section 15.

Section 1. Chemical Product and Company Identification			Page Number: 1	
Common Name/ Trade Name	Tetrabutylammonium lodide		talog mber(s).	T2154
		CA	S#	311-28-4
Manufacturer	SPECTRUM LABORATORY PRODUCTS INC.	RT	ECS	BS5450000
	14422 S. SAN PEDRO STREET GARDENA, CA 90248	TSO	CA	TSCA 8(b) inventory: Tetrabutylammonium lodide
Commercial Name(s)	Not available.	CI#		Not available.
Synonym	1-Butanaminium, N,N,N-tributyl-,iodide;	TNL	N. C. C. C. EMED CENCY	
Chemical Name	Tetrabutylammonium lodide	monium lodide IN CASE OF EMERGENCY CHEMTREC (24hr) 800-424-930		
Chemical Family	Quaternary Ammonium Halide	CAI	CALL (310) 516-8000	
Chemical Formula	C16-H36-N-I			
Supplier	SPECTRUM LABORATORY PRODUCTS INC. 14422 S. SAN PEDRO STREET GARDENA, CA 90248			

Exposure Limits				
CAS#	TWA (mg/m³)	STEL (mg/m³)	CEIL (mg/m³)	% by Weight
311-28-4				100
			CAS # TWA (mg/m³) STEL (mg/m³)	CAS # TWA (mg/m³) STEL (mg/m³) CEIL (mg/m³)

Potential Acute Health Effects Hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation (lung irritant).

Potential Chronic Health
Effects

CARCINOGENIC EFFECTS: Not available.

MUTAGENIC EFFECTS: Not available.

MUTAGENIC EFFECTS: Not available.
TERATOGENIC EFFECTS: Not available.
DEVELOPMENTAL TOXICITY: Not available.

Repeated or prolonged exposure is not known to aggravate medical condition.

Section 3. Hazards Identification

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Section 4. First A	id Measures
Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.
Skin Contact	In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.
Serious Skin Contact	Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Serious Inhalation	Not available.
Ingestion	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

Section 5. Fire and Explosion Data			
Flammability of the Product	May be combustible at high temperature.		
Auto-Ignition Temperature	Not available.		
Flash Points	Not available.		
Flammable Limits	Not available.		
Products of Combustion	These products are carbon oxides (CO, CO2), nitrogen oxides (NO, NO2).		
Fire Hazards in Presence of Various Substances	Slightly flammable to flammable in presence of heat.		
Explosion Hazards in Presence of Various Substances	Risks of explosion of the product in presence of mechanical impact: Not available. Slightly explosive in presence of open flames and sparks.		
Fire Fighting Media and Instructions	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.		
Special Remarks on Fire Hazards	Not available.		
Special Remarks on Explosion Hazards	Not available.		

Section 6. Accidental Release Measures			
Small Spill	Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.		
Large Spill	Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.		

Serious Ingestion

Not available.

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Section 7. Handling and Storage			
Precautions	Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents.		
Storage	Hygroscopic. Keep container tightly closed. Keep container in a cool, well-ventilated area. Sensitive to light. Store in light-resistant containers.		

Section 8. Exposure Controls/Personal Protection			
Engineering Controls	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.		
Personal Protection	Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.		
Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.		
Exposure Limits	Not available.		

Section 9. Physical and Chemical Properties				
Physical state and appearance	Solid. (crystalline powder.)	Odor	Practically Odorless.	
Molecular Weight	369.38 g/mole	Taste	Not available.	
pH (1% soln/water)	Not available.	Color	White.	
Boiling Point	Decomposition temperature: >250°C (482°F)			
Melting Point	144°C (291.2°F) - 148 C			
Critical Temperature	Not available.			
Specific Gravity	1.2 (Water = 1)			
Vapor Pressure	Not applicable.			
Vapor Density	Not available.			
Volatility	1% (w/w).			
Odor Threshold	Not available.			
Water/Oil Dist. Coeff.	Not available.			
Ionicity (in Water)	Not available.			
Dispersion Properties	See solubility in water.			
Solubility	Partially soluble in cold water. Solubility in Water: approximately 15% w/w @ 15 c	leg. C		

Section 10. Stability and Reactivity Data		
Stability	The product is stable.	
Instability Temperature	Not available.	
Conditions of Instability	Excess heat, light, dust generation, moisture	
Incompatibility with various substances	Reactive with oxidizing agents.	

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Corrosivity	Not available.	
Special Remarks on Reactivity	Hygroscopic; keep container tightly closed. Sensitive to light.	
Special Remarks on Corrosivity	Not available.	
Polymerization	Will not occur.	

Section 11. Toxicological Information		
Routes of Entry	Inhalation. Ingestion.	
Toxicity to Animals	Acute oral toxicity (LD50): 1990 mg/kg [Rat].	
Chronic Effects on Humans	Not available.	
Other Toxic Effects on Humans	Hazardous in case of skin contact (irritant), of ingestion, of inhalation (lung irritant).	
Special Remarks on Toxicity to Animals	Not available.	
Special Remarks on Chronic Effects on Humans	Not available.	
Special Remarks on other Toxic Effects on Humans		

Section 12. Ecological Information		
Ecotoxicity	Not available.	
BOD5 and COD	Not available.	
Products of Biodegradation	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.	
Toxicity of the Products of Biodegradation	The products of degradation are less toxic than the product itself.	
Special Remarks on the Products of Biodegradation	Not available.	

Section 13. Disposal Considerations Waste Disposal Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14. Transport Information		
DOT Classification	Not a DOT controlled material (United States).	
Identification	Not applicable.	
Special Provisions for Transport	Not applicable.	

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DOT (Pictograms)



Section 15. Other Regulatory Information and Pictograms

Federal and State Regulations TSCA 8(b) inventory: Tetrabutylammonium lodide

California

Proposition 65 Warnings

Other Regulations EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

Other Classifications

WHMIS (Canada) Not controlled under WHMIS (Canada).

DSCL (EEC) R22- Harmful if swallowed.

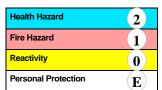
R36/37/38- Irritating to eyes, respiratory system and skin.

S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S37/39- Wear suitable gloves and eye/face

protection.

HMIS (U.S.A.)



National Fire Protection Association (U.S.A.)

Health



WHMIS (Canada) (Pictograms)



DSCL (Europe) (Pictograms)



TDG (Canada) (Pictograms)



ADR (Europe) (Pictograms)



Protective Equipment



Gloves.



Lab coat.

Tetrabutylammonium lodide



Dust respirator. Be sure to use an approved/certified respirator or equivalent.

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Splash goggles.

Section 16. Other Information		
MSDS Code	3185T	
References	Not available.	
Other Special Considerations	Not available.	
Validated by Sonia Owen on 8/11/2006.		Verified by Sonia Owen. Printed 9/13/2006.

CALL (310) 516-8000

Notice to Reader

All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, Spectrum Quality Products, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.