



Material Safety Data Sheet

NFPA	HMIS	Personal Protective Equipment
242	Health Hazard2Fire Hazard2	
	Reactivity 0	See Section 15.

Section 1. Chem	ical Product and Company Identification		Page Number: 1
Common Name/ Trade Name	Borane-Dimethylamine	Catalog Number(s).	B2219
		CAS#	74-94-2
Manufacturer	SPECTRUM QUALITY PRODUCTS INC.	RTECS	IP9450000
	14422 S. SAN PEDRO STREET GARDENA, CA 90248	TSCA	TSCA 8(b) inventory: Borane-Dimethylamine
Commercial Name(s)	Not available.	CI#	Not available.
Synonym	Boron, (N-methylmethanamine)trihydro, (T-4)		EMEDOENOV
Chemical Name	Borane-Dimethylamine	-	<u>EMERGENCY</u> (24hr) 800-424-9300
Chemical Family	Not available.	CALL (310) 5 ⁻	16-8000
Chemical Formula	C2-H10-B-N		
Supplier	SPECTRUM QUALITY PRODUCTS INC. 14422 S. SAN PEDRO STREET GARDENA, CA 90248		

Section 2.Composition	and Information	on Ingredients				
				Exposure Limits	_	
Name		CAS #	TWA (mg/m ³)	STEL (mg/m ³)	CEIL (mg/m ³)	% by Weight
1) Borane-Dimethylamine		74-94-2				100
Toxicological Data on Ingredients	Borane-Dimethylam ORAL (LD50): DERMAL (LD50):	Acute: 59 mg/kg		I		
Section 3. Hazards lo	lentification					
Potential Acute Health Effects	Hazardous in case over-exposure can res		ant), of eye conta	ict (irritant), of ir	ngestion, of inha	lation. Severe
Potential Chronic Health Effects	CARCINOGENIC EFF MUTAGENIC EFFEC TERATOGENIC EFFE DEVELOPMENTAL T The substance is toxic Repeated or prolonge highly toxic material organs.	TS: Not available. ECTS: Not available. FOXICITY: Not available c to cardiovascular syn ed exposure to the sul	le. stem, skin, central r bstance can produc	nervous system (C ce target organs d	CNS). lamage. Repeate	d exposure to a

Borane-Dimethylamine

Section 4. First Aid Measures

least 15 minutes. Get medical attention. Skin Contact In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminate clothing and shoes. Cover the irritated skin with an emollient. Wash clothing before reuse. Thoroughly cleast shoes before reuse. Get medical attention immediately. Serious Skin Contact Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediated 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 Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mout resuscitation. Seek medical attention. Ingestion If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything be		
Serious Skin Contact Clothing and shoes. Cover the irritated skin with an emollient. Wash clothing before reuse. Thoroughly clear shoes before reuse. Get medical attention immediately. Serious Skin Contact Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediat 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 Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mout resuscitation. Seek medical attention. Ingestion If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything be mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.	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. Get medical attention.
Inhalation If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Generatical attention. Serious Inhalation Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mout resuscitation. Seek medical attention. Ingestion If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything be mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.	Skin Contact	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.
Serious Inhalation Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt of waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mout resuscitation. Seek medical attention. Ingestion If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything be mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.	Serious Skin Contact	Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.
waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mout resuscitation. Seek medical attention. Ingestion If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything be mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.	Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medicattention immediately.	Serious Inhalation	Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek medical attention.
Serious Ingestion Not available.	Ingestion	If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.
	Serious Ingestion	Not available.

Section 5. Fire and Explosion Data

Flammability of the Product	Flammable.
Auto-Ignition Temperature	Not available.
Flash Points	CLOSED CUP: 43°C (109.4°F).
Flammable Limits	Not available.
Products of Combustion	These products are carbon oxides (CO, CO2).
Fire Hazards in Presence of Various Substances	Flammable in presence of open flames and sparks, of shocks, of heat.
Explosion Hazards in Presence of Various Substances	Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.
Fire Fighting Media and Instructions	Flammable solid. SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray or fog. Cool containing vessels with water jet in order to prevent pressure build-up, autoignition or explosion.
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.
Large Spill	Poisonous solid. Flammable solid that, in contact with water, emits flammable gases. Stop leak if without risk. Do not get water inside container. Do not touch spilled material. Cover with dry earth, sand or other non-combustible material. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed. Eliminate all ignition sources. Call for assistance on disposal.

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Section 7. Handling	and Storage		
Precautions	material. Do not ingest. Do not breathe dust. W wear suitable respiratory equipment. If ingested,	ear suitable seek medie	sources of ignition. Ground all equipment containing protective clothing. In case of insufficient ventilation cal advice immediately and show the container or the princompatibles such as oxidizing agents, acid
Storage	Keep container tightly closed. Keep container in water. Do not allow water to get into container be		ventilated area. Keep from any possible contact wo plent reaction. Do not store above 35°C (95°F).
Section 8. Exposure	Controls/Personal Protection		
Engineering Controls			r engineering controls to keep airborne levels belo lust, fume or mist, use ventilation to keep exposure
Personal Protection	Splash goggles. Lab coat. Dust respirator. I Gloves.	Be sure to	use an approved/certified respirator or equivaler
Personal Protection in Case of a Large Spill			A self contained breathing apparatus should be use clothing might not be sufficient; consult a special
Exposure Limits	Not available.		
Section 9. Physical a	nd Chemical Properties		
Physical state and appearance	Solid. (Crystalline solid.)	Odor	Fish like (Slight.)
Molecular Weight	58.94 g/mole	Taste	Not available.
pH (1% soln/water)	Not available.	Color	White.
Boiling Point	62°C (143.6°F)		
Melting Point	36°C (96.8°F)		
Critical Temperature	Not available.		
Specific Gravity	Not available.		
Vapor Pressure	Not applicable.		
Vapor Density	Not available.		
Volatility	Not available.		
Odor Threshold	Not available.		
Water/Oil Dist. Coeff.	Not available.		
Ionicity (in Water)	Not available.		
Dispersion Properties	Not available.		
Solubility	Not available.		
Section 10. Stability	and Reactivity Data		
Stability	The product is stable.		
Instability Temperature	Not available.		
Conditions of Instability	Not available.		
Incompatibility with various	Reactive with oxidizing agents, acids, moisture.		

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Borane-Dimethy	lamine	Page Number: 4
Corrosivity	Not available.	
Special Remarks on Reactivity	Not available.	
Special Remarks on Corrosivity	Not available.	
Polymerization	Will not occur.	

Section 11. Toxicolo	gical Information
Routes of Entry	Absorbed through skin. Eye contact. Inhalation. Ingestion.
Toxicity to Animals	Acute oral toxicity (LD50): 59 mg/kg [Rat]. Acute dermal toxicity (LD50): 210 mg/kg [Rabbit].
Chronic Effects on Humans	CARCINOGENIC EFFECTS : Classified 4 (No evidence.) by NTP, None. by OSHA, None. by NIOSH. Causes damage to the following organs: cardiovascular system, skin, central nervous system (CNS).
Other Toxic Effects on Humans	Hazardous in case of skin contact (irritant), of ingestion, of inhalation.
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	Not available.

Section 12. Ecologie	cal 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

DOT Classification	CLASS 4.1: Flammable solid.
Identification	: Flammable Solid, toxic, inorganic, n.o.s. UNNA: UN3179 PG: III
Special Provisions for Transport	Not available.

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Borane-Dimethylamine

DOT (Pictograms)



Section 15. Other Re	egulatory Information and Pictograms	
Federal and State Regulations	TSCA 8(b) inventory: Borane-Dimethylamine	
California Proposition 65 Warnings		
Other Regulations	OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200). EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.	
Other Classifications	WHMIS (Canada) CLASS B-4: Flammable solid. CLASS D-1B: Material causing immediate and serious toxic effects (TOXIC).	
	DSCL (EEC) R11- Highly flammable. R15- Contact with water liberates extremely flammable gases. R24/25- Toxic in contact with skin and if swallowed.	
HMIS (U.S.A.)	Health Hazard2Fire Hazard2Reactivity0Personal ProtectionE	
WHMIS (Canada) (Pictograms)		
DSCL (Europe) (Pictograms)		
TDG (Canada) (Pictograms)		
ADR (Europe) (Pictograms)		
Protective Equipment	Gloves.	
	Lab coat.	
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Borane-Din	nethylamine	Page Numb	per: 6
		respirator. Be sure to use an oved/certified respirator or valent. Wear appropriate respirator o ventilation is inadequate. sh goggles.	
Section 16.	Other Information		
	Other Information B3768		
Section 16. (MSDS Code References			
MSDS Code	B3768		
MSDS Code References Other Special Considerations	B3768 Not available.	Verified by Sonia Owen. Printed 9/11/2006.	

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.