



SAFETY DATA SHEET TIGER BORON 2%™



TIGER BORON 2%™

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Section I: Product Identification and Uses

Common Trade Name: Tiger Boron 2%™

Synonym: None

Chemical Family: Elemental sulphur

Reportable Quantity: None

Marine Pollutant: No

US and Canadian Shipments: None regulated as per schedule 2 section 33 (b) exemption for sulphur.

International Shipments:

AIR(IATA): Exempted under special provision A 105 SEA (IMGD): Exempted as per sulphur observations part 1 & 2.

Appearance: Specifically formed product in the shape of pastilles.

Prepared by: TIGER-SUL Products

Telephone Number: 1-877-299-3399

Section II: Hazardous Ingredients (Mixtures Only)

Most Important Hazards: Material components with chlorates, nitrates or other oxidizing agents may be explosive. Sulphur with alkalis or alkaline earth. Dust suspended in air is readily ignited by flames, static electricity or friction spark. Exercise caution when handling this material. Exposure to elemental sulphur may cause irritation to the eyes, skin, mouth, throat, stomach, and respiratory tract.

WHMIS Classification: Not controlled

WHMIS Symbols: None

Notice: the data and information presented herein are based upon tests, research and reports which are considered by us to be reliable and accurate. The data and information are presented without warranty, guarantee or liability on our part, and are presented to the customer for his/her own consideration, investigation and verification.



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Section III: Hazardous Ingredients

Name	CAS No.	Concentration
Sulphur	Nº 7704-34-9	80.6%
Inert Ingredients/Filler	Not available	17.4%
Boron Compounds	Not available	2%

Section IV: Physical Data

Boiling Point: 444°C (832°F)
Melting Point: 119°C (246°F)
Vapor Density: >1
Solubility in Water (% by weight): 45% at 0°C (Ammonium Sulphate)
Physical State and Appearance: pale green prill (pellet or pastille in shape)
Odor: Elemental sulphur is odorless
Odor threshold: Not available
Specific Gravity: solid, 2.07 gm/mL
Vapor Pressure (mm Hg at 20°C): Solid: Less than 0.0001 mm. Hg at 20°C (68° F)
Volatiles by Volume: Not available
Evaporation Rate (Butyl Acetate=) (Ether=): Not available
Decomposition Temperature: Not available
Explosion Properties -Sensitivity to Mechanical Impact: Not susceptible to mechanical impact.
Explosion Properties -Sensitivity to Static Discharge: Dust suspended in air is readily ignited by flames, static electricity or friction spark.
pH: Not available
Octanol/Water Partition Coefficient: Not available

Section V. Fire and Explosion Data

This Product is: Not Combustible
Flash Points: 188°C (370°F)
Flammable Limits: LEL 35 gm/m ³ , UEL 1400 gm/m ³ (dust)
Auto-Ignition temperature: 190°C (374°F)
Basic Firefighting Procedures: * Fire Extinguishing Agents Recommendations 1. A fine water spray or fog is recommended 2. CO ₂ or dry chemical 3. Small fires may be smothered with sand or soil sulphur * Fire Extinguishing Agents to AVOID-Hoses and extinguishers with pressure streams should be avoided where solid sulphur is dusty or where it may create a further hazard by raising more dust clouds. * Special Fire Fighting Precautions: Because burning sulphur evolves sulphur dioxide, breather apparatus or gas masks approved for use in acid-gas atmosphere should be used. Fumes from unprotected sulphur fires shall be avoided, if possible, by approaching for the upwind side.
Fire degradation products: Combustion may produce sulphur dioxide.
Flammability: Condition to avoid: Heat, sparks, open flame, static electricity or any other potential ignition source should be avoided. Avoid contact with incompatible materials.
Unusual fire and explosion hazards: Dust suspended in air is readily ignited by flames, static electricity or friction spark. Every reasonable step must be taken to minimize dust formation. Dust tight castings should be equipped with explosion relief vents. Sparkles electrical equipment is recommended. Handling equipment must be grounded or bonded to avoid static electricity. Keep away from source of flame or sparks. Detailed recommendations in Manufacturing Chemists Association SD-handling TIGER Boron 2%.



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Section VI: Reactivity Information

Stability: Stable.

Conditions to avoid: The main hazards are fire and dust explosions.

Materials to avoid: Avoid contact with strong oxidizing agents and acids.

Hazardous Polymerization: Will not occur.

Hazardous Decomposition Products: Combustion may produce sulphur dioxide.

Section VII: Health Hazard Information & Technology of Components

Primary Routes of Entry:

Inhalation: Sulphur dust may irritate the mucous membranes of the respiratory passage.

Ingestions: Minimal toxicity, irritating to mouth, throat and stomach. May cause digestive tract disorder/damage.

Skin: Frequent or prolonged contact may irritate the skin.

Eyes: Sulphur dust is capable of irritating the inner surfaces of the eyelids.

Permissible Concentration: None established.

Toxicological Information: Acute Toxicity.

Product data: No toxicological information available.

Ingredient data:

Chemical	CAS#	Route & Species	Value
Sulphur	7704-34-9	Oral, Rat Inhalation,	>3,000 mg/kg bw
		Rat Dermal, Rabbit	>9.23 mg/L
			>2,000 mg/kg bw

Exposure to elemental sulphur may cause irritation to the eyes, skin, and respiratory tract.

Eye Irritation: Sulphur dust is capable of irritating the inner surfaces of the eyelids.

Skin Irritation: Frequent or prolonged contact may irritate the skin.

Skin Sensitization: Contact with this product is not expected to cause skin sensitization, based upon the available data and known hazards of the components.

Respiratory Tract Sensitization: Contact with this product is not expected to cause respiratory tract sensitization, based upon the available data and known hazards of the components.

Toxicological Information: Chronic toxicity.

Carcinogenicity: This product is not known to contain any components at $\geq 0.1\%$ that have been shown to cause carcinogenicity. Therefore, based upon the available data and the known hazards of the components, this product is not expected to be a carcinogen.

Mutagenicity: This product is not known to contain any components at $\geq 0.1\%$ that have been shown to cause mutagenicity. Therefore, based upon the available data and the known hazards of the components, this product is not expected to be a mutagen.

Reproductive Toxicity: This product is not known to contain any components at $\geq 0.1\%$ that have been shown to cause reproductive toxicity. Therefore, based upon the available data and the known hazards of the components, this product is not expected to be a reproductive toxin.

Teratogenicity/Embryotoxicity: This product is not known to contain any components at $\geq 0.1\%$ that have been shown to cause teratogenicity and/or embryotoxicity. Therefore, based upon the available data and the known hazards of the components, this product is not expected to be a teratogen/embryotoxin.

Other Chronic Toxicity: Frequent or prolonged contact may irritate the skin.

Toxicologically Synergistic Materials: Not available



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Section VIII: First Aid

Eye Contact: Irrigate thoroughly with copious quantities of plain water.

Skin Contact: Wash with mild soap and water.

Ingestion: If swallowed, induce vomiting only if victim is conscious. DO NOT attempt to give anything by mouth to an unconscious person.

Inhalation: Remove victim to fresh air. If breathing is difficult, qualified medical personnel may administer oxygen. Seek medical attention.

Section IX: Precautionary Measures:

Respiratory Protection: Dust-type respirators shall be provided for dusty conditions. Breathing apparatus must be available for emergency use in case of fire.

Eye & Face Protection: Dust-tight goggles with plastic or rubber frames may be helpful in dusty conditions.

Hands, Arms and Body Protection: Workers whose skin may be sensitive to sulphur dust should button collars, roll sleeves down, and gather trousers at the ankle. Gloves may be helpful.

Other Clothing and Equipment: Hard hat and safety shoes. Fire-retardant fabrics are recommended. Sulphur impregnated clothing should not be worn.

Storage: Solid becomes corrosive to metals when stored wet. Sulphur/bentonite fertilizer will physically break down when exposed to moisture or water.

Ventilation: Local exhaust if dusty conditions prevail.

Normal Handling: Avoid breathing dust and keep clothing as free from dust as possible.

Spill or Leak: Shovel into disposal containers to cover with tarp. For landfill disposal, mix with limestone 3 times the weight of sulphur.

Special Precautions/Procedures/Label Instructions: Eye wash equipment near the work area.

Exposure Limits: None

