

**MATERIAL SAFETY DATA SHEET (MSDS)**
**ZINC BORATE LR**
**1. Product Identification**

**Synonyms:** ZINC BORATE  
**CAS No.:** 10361-94-1

Product Coad: Z0219500500

**2. Composition/Information on Ingredients**

Ingredient	CAS No	Percent	Hazardous
Zinc Borate	10361-94-1	98 - 100%	Yes

**3. Hazards Identification**

**NFPA RATINGS (SCALE 0-4):** HEALTH=1 FIRE=0 REACTIVITY=0

**HMIS RATINGS (SCALE 0-4):** HEALTH=1 FLAMMABILITY=0 REACTIVITY=0

**POTENTIAL HEALTH EFFECTS:**

**INHALATION:SHORT TERM EXPOSURE:** irritation

**LONG TERM EXPOSURE:** to our knowledge, no effects are known

**SKIN CONTACT:SHORT TERM EXPOSURE:** irritation

**LONG TERM EXPOSURE:** to our knowledge, no effects are known

**EYE CONTACT:SHORT TERM EXPOSURE:** irritation

**LONG TERM EXPOSURE:** to our knowledge, no effects are known

**INGESTION:SHORT TERM EXPOSURE:** to our knowledge, no effects are known

**LONG TERM EXPOSURE:** to our knowledge, no effects are known

**4. First Aid Measures**

**INHALATION:** If adverse effects occur, remove to uncontaminated area. IF SYMPTOMS OF

OVEREXPOSURE OCCUR, GET MEDICAL ATTENTION. **SKIN CONTACT:** Wash contaminated areas with soap and water. IF IRRITATION OCCURS, GET MEDICAL ATTENTION. **EYE CONTACT:** Flush eyes with plenty of water. IF IRRITATION OCCURS, GET MEDICAL ATTENTION. **INGESTION:** Not a likely route of exposure. IF LARGE AMOUNTS ARE INGESTED, GET MEDICAL

ATTENTION.

**5. Fire Fighting Measures**

**FIRE AND EXPLOSION HAZARDS:** Negligible fire hazard.

**EXTINGUISHING MEDIA:** Use extinguishing agents appropriate for surrounding fire.

**FIRE FIGHTING:** Move container from fire area if it can be done without risk. Avoid inhalation of material

or combustion by-products. Stay upwind and keep out of low areas.

**SENSITIVITY TO MECHANICAL IMPACT:** Not sensitive

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OCCUPATIONAL RELEASE: Shovel dry material into suitable container. Flush spill area with water, if appropriate. Keep out of water supplies and sewers. Releases should be reported, if required, to appropriate agencies.

**7. Handling and Storage**

**STORAGE:** Store and handle in accordance with all current regulations and standards. Keep container properly labeled and tightly closed. Keep dry. Keep separated from incompatible substances.

**HANDLING:** Use methods to minimize dust. Wash if needed.

**8. Exposure Controls/Personal Protection**

**EXPOSURE LIMITS:**NUISANCE PARTICULATES (NUISANCE DUST):5 mg/m<sup>3</sup> OSHA TWA (respirable dust fraction)15 mg/m<sup>3</sup> OSHA TWA (total dust)10 mg/m<sup>3</sup> ACGIH TWA (inhalable particulate)3 mg/m<sup>3</sup> ACGIH TWA (respirable particulate)VENTILATION: Provide local exhaust ventilation where vapor may be generated. Ensure compliance with applicable exposure limits. EYE PROTECTION: Wear safety glasses with side shields. An emergency eye wash fountain may be provided. CLOTHING: Wear appropriate clothing to minimize skin contact.

GLOVES: Wear appropriate gloves. PROTECTIVE MATERIAL TYPES: latex, leather, nitrile, neoprene, rubber, Tyvek (R)

RESPIRATOR: A NIOSH approved respirator with N95 filters may be permissible under certain

circumstances where airborne concentrations are expected to exceed exposure limits, or when symptoms have been observed that are indicative of overexposure. A half face piece air-purifying respirator may be used in concentrations up to 10X the acceptable exposure level and a full face piece air-purifying respirator may be used in concentrations up to 50X the acceptable exposure

Supplied air should be used when the level is expected to be above 50X the acceptable level, or when there is a potential for uncontrolled release. A respiratory protection program that meets 29 CFR 1910.134 must be followed whenever workplace

conditions warrant use of a respirator.

**9. Physical and Chemical Properties**

PHYSICAL STATE: solid

COLOR: white

TEXTURE: free-flowing

PHYSICAL FORM: powder

ODOR: odorless

MOLECULAR WEIGHT: 869.42

MOLECULAR FORMULA: 4ZnO.6B2O3.7H2O

BOILING POINT: Not applicable

MELTING POINT: 1202 F (650 C)

VAPOR PRESSURE: @ 20 C (negligible)

VAPOR DENSITY: Not applicable

SPECIFIC GRAVITY (water=1): 2.7

WATER SOLUBILITY: <0.28% @ 25 C

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PH: 6.8-7.5 @ 20 C (aqueous solution)

VOLATILITY: negligible

ODOR THRESHOLD: Not available

EVAPORATION RATE: negligible

COEFFICIENT OF WATER/OIL DISTRIBUTION: Not available

#### **10. Stability and Reactivity.**

**REACTIVITY:** Stable at normal temperatures and pressure.

**CONDITIONS TO AVOID:** Avoid heat, flames, sparks and other sources of ignition.

**INCOMPATIBILITIES:** acids, alkali metals, bases, oxidizing materials, reducing agents

#### **HAZARDOUS DECOMPOSITION:**

Thermal decomposition products or combustion: oxides of boron, oxides of zinc

**POLYMERIZATION:** Will not polymerize.

#### **11. Toxicological Information**

Oral rat: LD50: 2510 mg/kg. Investigated as a mutagen, reproductive effector.

---NTP Carcinogen---

Ingredient	Known	Anticipated	IARC Category
Zinc Borate	No	No	None

#### **12. Ecological Information**

**Environmental Fate:** No information found.

**Environmental Toxicity:** No information found.

#### **13. Disposal Considerations**

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

#### **14. Transport Information**

NON HAZARDOUS FOR AIR, ROAD AND SEA TRANSPORT

#### **15. REGULATORY**

SARA Title III: N/A

Federal Regulatory: N/A

#### **16. Other Information**

**NFPA Ratings:** Health: 1 Flammability: 0 Reactivity: 0

**Product Use:** Laboratory Reagent.

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In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

**DISCLAIMER:**

- **SUVCHEM** Products are to be used as Lab Chemicals for R&D only. Not for drug, medicinal, household or other uses.
- **SUVCHEM** shall not be responsible for any damage resulting from handling or from contact with the above product.
- **SUVCHEM** provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.

**End of document**