



Material Safety Data Sheet



| HMIS | |
|---------------|---|
| Health Hazard | 2 |
| Fire Hazard | 0 |
| Reactivity | 0 |

PPE (See Section 15)



Section 1. Chemical Product and Company Identification

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|------------------|--|--|---------------------------------------|
| Trade Name | Metal Analysis Test 2 | Code | RE/MA2 |
| Manufacturer | HazTech Systems, Inc. P.O. Box 627 164 Dinsmore Fortuna, CA 95540 | CAS # | 1303-96-4 |
| Commercial Name | Sodium borate | RTECS | SC7310000 |
| Synonyms | MA-2 Sodium pyroborate Sodium tetraborate decahydrate | TSCA | TSCA 8(b) inventory: Sodium borate |
| Chemical Formula | Na ₂ B ₄ O ₇ ·10(H ₂ O) | CI # | |
| Supplier | Spectrum Chemical Mfg. Corp. 14422 S. San Pedro St. Gardena, CA 90248 | In case of emergency contact CHEMTREC (24 hours) at 800-424-9300 HazTech Systems, Inc. 800-337-2497 Spectrum Chemical Mfg. Corp. 310-516-8000 | |

Section 2. Composition and Information on Ingredients

| Name | CAS # | Exposure Limits | | | % by Weight |
|---------------|-----------|-----------------|------|--------------|-------------|
| | | TWA (mg/m3) | STEL | CEIL (mg/m3) | |
| Sodium borate | 1303-96-4 | 5 | | | 100% |

Toxicological Data on Ingredients Sodium borate: ORAL (LD50): Acute: 2660 mg/kg (Rat.).

Section 3. Hazards Identification

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| Potential Acute Health Effects | Hazardous in case of skin contact (irritant), of eye contact (irritant). Slightly hazardous in case of skin contact (permeator), of ingestion, of inhalation. |
| Potential Chronic Health Effects | CARCINOGENIC 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 4. First Aid Measures

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| Eye Contact | Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Do not use an eye ointment. Seek medical attention. |
| Skin Contact | After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Cold water may be used. Cover the irritated skin with an emollient. If irritation persists, seek medical attention. |
| Inhalation | Allow the victim to rest in a well ventilated area. Seek immediate medical attention. |
| Ingestion | Do not induce vomiting. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention. |

Section 5. Fire and Explosion Data

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| Flammability | Non-flammable. |
| Auto-Ignition Temperature | Not applicable. |
| Flash Point | Not applicable. |
| Flammable Limits | Not applicable. |
| Products of Combustion | Not applicable. |
| Fire Hazards in Presence of Various Substances | Not applicable. |
| 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 | Not applicable. |
| Special Remarks on Fire Hazards | Not applicable. |

Section 6. Accidental Release Measures

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| Small Spill | Use appropriate tools to put the spilled solid in a convenient waste disposal container. |
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Section 7. Handling and Storage

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| Precautions | If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes |
| Storage | Keep in HazCat Kit. |

Section 8. Exposure Controls/Personal Protection

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| Engineering Controls | Use in a well ventilated area. |
| Personal Protection | Gloves and goggles. |

Section 9. Physical and Chemical Properties

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|-------------------------------|------------------------------------|------------------------|---------------|
| Physical State and Appearance | Solid. (Solid crystalline powder.) | Volatility | Not available |
| Molecular Weight | 381.37 g/mole | Odor Threshold | Not available |
| pH (1% Solution in Water) | 10 (Basic) | Water/Oil Dist. Coeff. | Not available |
| Boiling Point | Decomposes. | Ionicity (in Water) | Not available |
| Melting Point | Not available | Dispersion Properties | Not available |
| Critical Temperature | Not available | Solubility | Water |
| Specific Gravity | 1.73 (Water = 1) | Odor | Odorless |
| Vapor Pressure | Not available | Taste | Not available |
| Vapor Density | Not available | Color | Whitie |

Section 10. Stability and Reactivity Data

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|---|--------------------|--------------------------------|-------------------------------------|
| Stability | Product is stable. | Corrosivity | Non-corrosive in presence of glass. |
| Instability Temperature | Not available. | Special Remarks on Corrosivity | Not available. |
| Conditions of Instability | Not available. | Polymerization | Will not polymerize. |
| Incompatibility with Various Substances | Not available. | | |

Section 11. Toxicological Information

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| Route of Entry | Eye contact. |
| Toxicity to Animals | Acute oral toxicity (LD50): 2660 mg/kg (Rat.). |
| Chronic Effects on Humans | Not available. |
| Other Toxic Effects on Humans | Acute oral toxicity (LD50): 2660 mg/kg (Rat.). |
| 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. Ecological Information

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| 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 more toxic. |
| Special Remarks on the Products of Biodegradation | Not available. |

Section 13. Disposal Considerations

Waste Disposal Recycle to process, if possible. Consult your local or regional authorities.

Section 14. Transport Information

DOT Classification Not a DOT controlled material (United States).

Identification Not applicable.

Special Provisions for Transport Not applicable.

Section 15. Other Regulatory Information and Pictograms

Federal and State Regulations Pennsylvania RTK: Sodium borate
Massachusetts RTK: Sodium borate
TSCA 8(b) inventory: Sodium borate

California Proposition 65 Warnings

Other Regulation Not available

Other classifications WHIMS (Canada) Not controlled under WHMIS (Canada).

DSCL (EEC) R36/38- Irritating to eyes and skin.

Section 16. Other Information

Catalog Number(s) RE/MA2

References Not available.

Other Special Considerations Not available.

Validated by R. Houghton 8/06/01

Verified by R. Turkington

Call 1-800-543-5487

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, Haztech Systems, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.