

Safety Data Sheet

SECTION 1: Identification

| Product Nar Other Identi | | arium Chloride Dihydrate, ACS Reagent 4410-10 | | | |
|--|---|---|--|--|--|
| Recommended Uses Uses Advised Against | | General Laboratory Reagent/Chemical. Not intended for drug, food or household use. | | | |
| Address Telephone | SPEX CertiPrep, LL 203 Norcross Ave. Metuchen, NJ 08840 1.732.549.7144 | CHEMTREC (USA) 800-424-9300 | | | |
| Website | www.spex.com | | | | |

SECTION 2: Hazard(s) Identification

Acute toxicity Oral (Category 3)

Hazards not otherwise classified or covered by GHS

None identified.

Signal Word

DANGER

Hazard Statements

Toxic if swallowed.

Precautionary Statements

Wash areas of contact/exposure thoroughly after handling. Do not eat, drink or smoke when using this product. IF SWALLOWED: Get emergency medical help immediately. Rinse mouth. Store locked up. Dispose of contents/container in accordance with local, state, federal and international regulations.



SECTION 3: Composition / Information on Ingredients

| Component Name | Component Number CAS | Component Number EC | Component Weight % |
|---------------------------|----------------------|---------------------|--------------------|
| Barium Chloride Dihydrate | 10326-27-9 | 233-788-1 | 100 |



Flammability

Flash Point

рΗ

Viscosity

Flammable/Explosive Limits

Auto-Ignition Temperature

Decomposition Temperature

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| CC | | | |
|-----------------------------|--|--|--|
| SECTION 4: First-Aid Measu | res | | |
| General Advice | Show this SDS to attending physician if medical treatment is needed. | | |
| Skin Contact | Rinse affected areas with plenty of water. If skin irritation develops, seek medical attention. | | |
| Eye Contact | Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing. If irritation persists, seek medical attention. | | |
| Inhalation | Remove person to fresh air and keep comfortable for breathing. If breathing is difficult or labored, seek medical attention. | | |
| Ingestion | Immediately call a poison center or physician. Induce vomiting only if advised by medical personnel to do so. Keep victim at rest in a comfortable position for breathing. | | |
| Symptoms/effects | The most important known symptoms/effects are described in Section 2 of this Safety Data Sheet. | | |
| Treatment | Treat symptomatically. | | |
| SECTION 5: Fire-Fighting Me | easures | | |
| Extinguishing Media | Substance is not flammable, use agent most appropriate to extinguish surrounding fire (water, carbon dioxide, dry chemical, sand/earth, foam). | | |
| Specific Hazards | Thermal decomposition may produce toxic or irritating fumes. | | |
| Actions for Firefighters | Wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode. | | |
| SECTION 6: Accidental Rele | ase Measures | | |
| Precautions and Procedures | Ensure adequate ventilation. Use personal protective equipment as required. Evacuate unprotected personnel to safe areas. Keep people away from and upwind of spill/leak. | | |
| Environmental Precautions | As with any chemical, avoid release to the environment for the responsible stewardship of our planet. | | |
| Containment and Clean Up | Avoid dust formation. Wear respiratory protection, gloves, eye protection and protective clothing. Sweep up or vacuum up spillage and collect in suitable lidded container for disposal. | | |
| Section 7: Handling and Sto | rage | | |
| Handling Storage | Follow good hygiene procedures when handling chemical materials. Avoid contact with skin, eyes and clothing. Do not eat, drink, smoke or use personal items when handling chemical substances. As a general practice, wear gloves and eye protection when handling chemical substances. Keep containers tightly closed in a cool, dry and well-ventilated place. Protect from freezing and physical damage. Store | | |
| | separately from incompatible materials. | | |
| Section 8: Exposure Control | s / Personal Protection | | |
| Engineering Controls | As part of safe chemical handling, emergency eye wash fountains and safety showers should be available in handling areas. Provide sufficient ventilation measures to keep the airborne concentration below the applicable workplace exposure limits. | | |
| Exposure Limits | Soluble Barium compound (as Ba) PEL-TWA 0.5 mg/m ³ US-OSHA | | |
| Exposure Limits | Soluble Barium compound (as Ba) REL-TWA 0.5 mg/m ³ US-NIOSH | | |
| Exposure Limits | Soluble Barium compound (as Ba) TLV-TWA 0.5 mg/m ³ US-ACGIH | | |
| Eye Protection | As part of good industrial hygiene, wear safety glasses with side shields or safety goggles. Wear face shield if there is risk of splashes. | | |
| Skin Protection | As a general practice, wear chemical resistant gloves when handling chemical substances. | | |
| Respiratory Protection | Where exposure limits are exceeded and cannot be adequately controlled by other engineering means (such as a chemical fume hood), wear respiratory protection. | | |
| Section 9: Physical and Che | mical Properties | | |
| Physical State | Solid | | |
| Appearance/Color | Colorless/white | | |
| Odor | Odorless | | |
| Odor Threshold | Not applicable. | | |
| Melting/Freezing Point | 113°C (loses water) | | |
| Boiling Point/Range | Decomposes | | |
| | | | |

Not flammable Not applicable

Not applicable

Not applicable

113°C (loses water)

Data not available Not applicable.



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| Solubility (in water) | 370 g/L |
|---------------------------------|--|
| Partition Coefficient (n-octand | DI/water) Data not available |
| Relative Density | 3.86 |
| Vapor Pressure | Not applicable |
| Vapor Density | Not applicable. |
| Evaporation Rate | Not applicable. |
| Particle Characteristics | Data not available |
| Section 10: Stability and Re | activity |
| Reactivity | Based on available data, no reaction hazards have been identified. |
| Chemical Stability | Stable under normal conditions of handling and storage. |
| Hazardous Reactions | Based on available data, no reaction hazards have been identified that would occur during normal handling and storage. |
| Conditions to Avoid | Avoid contact with incompatible materials. |
| Incompatible Materials | Strong oxidizing agents, bromine trifluoride, 2-furan percarboxylic acid. |
| Hazardous Decomposition | Thermal decomposition can produce barium oxide, chlorine, hydrogen chloride. |
| Section 11: Toxicological In | formation |
| Acute Toxicity - Oral | LD50 (rat) 138 mg/kg (calculated based on data for anhydrous barium chloride) |
| Acute Toxicity - Dermal | The toxicological data is limited or unavailable. |
| Acute Toxicity - Inhalation | The toxicological data is limited or unavailable. |
| Skin Corrosion/Irritation | This material is not expected to cause skin irritation under normal conditions. |
| Eye Damage/Irritation | This material is not expected to cause eye damage or irritation under normal usage conditions. |
| Respiratory Sensitization | Not expected to cause respiratory sensitization. |
| Skin Sensitization | Not expected to cause skin sensitization. |
| Germ Cell Mutagenicity | Based on available data, this substance does not meet the criteria set forth for classification as causing germ cell mutagenicity. |
| Carcinogenicity | This material has not been identified as a carcinogen by IARC or NTP. |
| Reproductive Toxicity | Based on available data, this substance does not meet the criteria set forth for classification as a reproductive toxin. |
| STOT Single Exposure | None known. |
| STOT Repeated Exposure | None known. |
| Aspiration Hazard | This substance is not considered to be an aspiration hazard. |
| Other Information | No additional information available. |
| | |



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| Section 12: Ecological Information | | | | |
|-------------------------------------|--|--|--|--|
| Toxicity Values | Does not meet the criteria of ecotoxin. | | | |
| Persistence/Biodegradability | The methods for determining biological degradability do not apply to inorganic substances. | | | |
| Bioaccumlation Potential | Data is not available for this substance that does not meet the criteria of ecotoxin. | | | |
| Mobility in Soil | Data is not available for this substance that does not meet the criteria of ecotoxin. | | | |
| Other Adverse Effects | None known. | | | |
| Section 13: Disposal Considerations | | | | |

Discharge, treatment, or disposal may be subject to national, state, regional or local laws. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Since emptied containers retain product residue, follow label warnings even after container is emptied. Dispose in accordance with national, state, regional and local regulations.

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Department issuing SDS: product safety department

Contact: SPEX CertiPrep, LLC. 1-732-549-7144