

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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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