

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 04/16/2014 Revision date: 03/13/2019

Supersedes: 10/28/2016

Version: 1.2

	Date of iss	sue: 04/16/2014	Revision date: 03/13/2019	Supersedes: 10/28/2016	Version: 1.2
SECTION 1: Identifica	ation				
1.1. Identification					
Product form		: Substance			
Substance name		: Barium Chlorid	e, Dihydrate		
CAS-No.		: 10326-27-9			
Product code		: LC11560			
Formula		: BaCl2.2H2O			
Synonyms		: barium dichlorid	de, dihydrate / muriate of bar	ium, dihydrate	
1.2. Recommended us	se and restrictions	on use			
Use of the substance/mixture	e	: Chemical interr Insecticide	nediate		
1.3. Supplier					
LabChem, Inc.					
Jackson's Pointe Commerce	Park Building 1000,	1010 Jackson's Po	pinte Court		
Zelienople, PA 16063 - USA					
T 412-826-5230 - F 724-473	-0647				
1.4. Emergency telepl	hone number				
Emergency number		: CHEMTREC: 1	-800-424-9300 or +1-703-74	1-5970	
SECTION 2: Hazard(s) identification				
	the substance or m	ixture			
GHS-US classification					
Acute toxicity (oral)	H301	Toxic if	swallowed		
Category 3					
Hazardous to the aquatic environment - Acute Hazard Category 3	H402	Harmfu	l to aquatic life		
Full text of H statements : se	e section 16				
	nte includientere				
	nts, including prec	autionary stateme	ents		
GHS US labeling	•				
Hazard pictograms (GHS US	2)	GHS06			
Signal word (GHS US)		: Danger			
Hazard statements (GHS US	5)	: H301 - Toxic if H402 - Harmful			
Precautionary statements (G	ihs US)	: P264 - Wash e P270 - Do not e P273 - Avoid re P301+P310 - If P330 - If swallo P405 - Store lo	xposed skin thoroughly after eat, drink or smoke when usin lease to the environment. SWALLOWED: Immediatel wed, rinse mouth cked up.		
2.3. Other hazards wh	nich do not result in	classification			
Other hazards not contributir classification	ng to the	: None under no	rmal conditions.		
2.4. Unknown acute to	oxicity (GHS US)				

Not applicable

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.1. Substances				
Substance type	: Mono-cor	tituent		
Name		Product identifier	%	GHS-US classification
Barium Chloride, Dihydrate (Main constituent)		(CAS-No.) 10326-27-9	100	Acute Tox. 3 (Oral), H301 Aquatic Acute 3, H402
Full text of hazard classes and H-statement	s : see section 16			
3.2. Mixtures				
Not applicable				
SECTION 4: First-aid measures				
4.1. Description of first aid measure	es			
First-aid measures general	arrest: ar with labo Vomiting: warming	vital functions. Unconscious: maintain ad icial respiration or oxygen. Cardiac arrest d breathing: half-seated. Victim in shock: revent asphyxia/aspiration pneumonia. F b). Keep watching the victim. Give psycho- rain. Depending on the victim's condition:	t: perform on his ba Prevent co ological a	resuscitation. Victim conscious ack with legs slightly raised. poling by covering the victim (no id. Keep the victim calm, avoid
First-aid measures after inhalation	: Remove	e victim into fresh air. Respiratory proble	ms: cons	ult a doctor/medical service.
First-aid measures after skin contact		water. Soap may be used. Do not apply if irritation persists.	(chemical) neutralizing agents. Take victim
First-aid measures after eye contact		water. Remove contact lenses, if present alizing agents. Take victim to an ophthal		
First-aid measures after ingestion	vomiting. doctor/me container	th with water. Give nothing to drink. Victir nduce vomiting by giving a 0.9 % saline s lical service. Call Poison Information Cer omit to the doctor/hospital. Ingestion of la ninistration of chemical antidote. Doctor:	olution. In htre (www arge quar	nmediately consult a .big.be/antigif.htm). Take the .tities: immediately to hospital.
4.2. Most important symptoms and	effects (acute an	delayed)		
Symptoms/effects after inhalation	: EXPOSU	E TO HIGH CONCENTRATIONS: Dry/so	ore throat	. Coughing.
Symptoms/effects after eye contact	: Redness	f the eye tissue.		
Symptoms/effects after ingestion	Increased	lausea. Abdominal pain. Blood in stool. E salivation. Myasthenia. Cramps/uncontro es of heart rate. High arterial pressure.		
4.3. Immediate medical attention ar	d special treatme	t, if necessary		
Obtain medical assistance.				

SECI	ION 5: Fire-lighting measures	
5.1.	Suitable (and unsuitable) extinguish	ing media
Suitable	e extinguishing media	: Adapt extinguishing media to the environment for surrounding fires.
5.2.	Specific hazards arising from the ch	emical
Fire ha	zard	: DIRECT FIRE HAZARD. Non combustible.
Reactiv	ity	: Reacts with (strong) oxidizers.
5.3.	Special protective equipment and pr	ecautions for fire-fighters
Precau	tionary measures fire	: Exposure to fire/heat: keep upwind. Exposure to fire/heat: consider evacuation. Exposure to fire/heat: have neighbourhood close doors and windows.
Firefigh	ting instructions	: Cool tanks/drums with water spray/remove them into safety. Dilute toxic gases with water spray. Take account of toxic fire-fighting water. Use water moderately and if possible collect or contain it.
Protect	ion during firefighting	: Heat/fire exposure: compressed air/oxygen apparatus.
SECTION 6: Accidental release measures		
6.1.	6.1. Personal precautions, protective equipment and emergency procedures	
6.1.1.	For non-emergency personnel	
Protect	ive equipment	: Gloves. Protective clothing. Dust cloud production: compressed air/oxygen apparatus. Reactivity hazard: compressed air/oxygen apparatus. Reactivity hazard: gas-tight suit.

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Emerge	ncy procedures	: Mark the danger area. Prevent dust cloud formation. No naked flames. Wash contaminated clothes. In case of hazardous reactions: keep upwind. In case of reactivity hazard: consider evacuation.
Measur	es in case of dust release	: In case of dust production: keep upwind. In case of dust production: consider evacuation. Dust production: have neighbourhood close doors and windows.
6.1.2.	For emergency responders	
Protecti	ve equipment	: Do not breathe dust. Equip cleanup crew with proper protection.
Emerge	ncy procedures	: Stop release. Ventilate area. If a major spill occurs, all personnel should be immediately evacuated and the area ventilated.
6.2.	Environmental precautions	
Prevent	soil and water pollution. Prevent spr	ading in sewers.
6.3.	Methods and material for contai	ment and cleaning up
For con	tainment	: Contain released substance, pump into suitable containers. Plug the leak, cut off the supply. Dam up the solid spill. Knock down/dilute dust cloud with water spray. If reacting: dilute toxic gas/vapour with water spray. Take account of toxic/corrosive precipitation water.
Methods	s for cleaning up	: Stop dust cloud by covering with sand/earth. Scoop solid spill into closing containers. Carefully collect the spill/leftovers. Clean contaminated surfaces with an excess of water and soap solution. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling.
6.4.	Reference to other sections	
No addi	tional information available	
SECT	ON 7: Handling and storage	
7.1.	Precautions for safe handling	
Addition	al hazards when processed	: Pulverization rapidly increases toxic concentration.
Precaut	ions for safe handling	: Avoid raising dust. Keep away from naked flames/heat. Measure the concentration in the air regularly. Carry operations in the open/under local exhaust/ventilation or with respiratory protection. Comply with the legal requirements. Clean contaminated clothing. Thoroughly clean/dry the installation before use. Do not discharge the waste into the drain. Keep container tightly closed.
Hygiene	measures	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
7.2.	Conditions for safe storage, incl	ding any incompatibilities
Heat-igr	nition	: KEEP SUBSTANCE AWAY FROM: heat sources.

r loat ignition	
Prohibitions on mixed storage	: KEEP SUBSTANCE AWAY FROM: oxidizing agents. strong acids.
Storage area	: Store in a dry area. Keep container in a well-ventilated place. Keep locked up. Unauthorized persons are not admitted. Meet the legal requirements.
Special rules on packaging	: SPECIAL REQUIREMENTS: closing. clean. correctly labelled. meet the legal requirements. Secure fragile packagings in solid containers.
Packaging materials	: SUITABLE MATERIAL: steel. stainless steel. paper with plastic inner lining. cardboard. synthetic material. MATERIAL TO AVOID: aluminium.

SECTION 8: Exposure controls/personal protection

8.1. **Control parameters**

Barium Chloride, Dihydrate (10326-27-9)			
ACGIH	ACGIH TWA (mg/m³)	0.5 mg/m ³	
NIOSH	NIOSH REL (TWA) (mg/m³)	0.5 mg/m ³	

8.2. Appropriate engineering controls

Appropriate engineering controls

: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation.

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8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Safety glasses. Gloves. Protective clothing. Dust production: dust mask with filter type P3.



Materials for protective clothing:

GIVE GOOD RESISTANCE: butyl rubber. chloroprene rubber. chlorinated polyethylene. neoprene. PVC. viton

Hand protection:

Gloves

Eye protection:

Safety glasses. In case of dust production: protective goggles

Skin and body protection:

Protective clothing

Respiratory protection:

Dust production: dust mask with filter type P3. High dust production: self-contained breathing apparatus

SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and		
Physical state	: Solid	
Appearance	: Crystalline solid. Powder. Crystalline powder. Grains.	
	: Colourless to white	
	: Odorless	
Odor threshold	: No data available	
рН	: 5 - 8 (5 %)	
Melting point	: 963 °C	
Freezing point	: No data available	
Boiling point	: 1560 °C	
Flash point	: Not applicable	
Relative evaporation rate (butyl acetate=1)	: No data available	
Flammability (solid, gas)	: No data available	
Vapor pressure	: < 0.1 hPa (20 °C)	
Relative vapor density at 20 °C	: Not applicable	
Relative density	: 3.1	
Specific gravity / density	: 3100 kg/m³	
Molecular mass	: 244.28 g/mol	
Solubility	: Soluble in water. Water: 36 g/100ml	
Log Pow	: No data available	
Auto-ignition temperature	: No data available	
Decomposition temperature	: No data available	
Viscosity, kinematic	: No data available	
Viscosity, dynamic	: No data available	
Explosion limits	: No data available	
Explosive properties	: No data available	
Oxidizing properties	: No data available	

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9.2. Other information	
VOC content	: 0%
SECTION 10: Stability and reactivity	
10.1. Reactivity	
Reacts with (strong) oxidizers.	
10.2. Chemical stability Stable under normal conditions.	
10.3. Possibility of hazardous reactions	
Not established.	
10.4. Conditions to avoid Incompatible materials. Moisture.	
10.5. Incompatible materials Strong oxidizers. Incompatible materials	
•	
10.6. Hazardous decomposition products	
Hydrogen chloride. barium.	
SECTION 11: Toxicological informat	ion
11.1. Information on toxicological effects	
Likely routes of exposure	· Inhelation: Skin and ave contact
Acute toxicity	: Inhalation; Skin and eye contact : Not classified
Barium Chloride, Dihydrate (10326-27-9) LD50 oral rat	118 ma/ka (Pot Oral)
ATE US (oral)	118 mg/kg (Rat, Oral) 118 mg/kg body weight
Skin corrosion/irritation	: Not classified
	pH: 5 - 8 (5 %)
Serious eye damage/irritation	: Not classified
	pH: 5 - 8 (5 %)
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity – single exposure	: Not classified
Specific target organ toxicity – repeated exposure	: Not classified
Aspiration hazard	: Not classified
Potential Adverse human health effects and symptoms	: Toxic if swallowed. Harmful if inhaled.
Symptoms/effects after inhalation	: EXPOSURE TO HIGH CONCENTRATIONS: Dry/sore throat. Coughing.
Symptoms/effects after eye contact	: Redness of the eye tissue.
Symptoms/effects after ingestion	: Vomiting. Nausea. Abdominal pain. Blood in stool. Bleeding of the gastrointestinal tract. Increased salivation. Myasthenia. Cramps/uncontrolled muscular contractions. Paralysis. Disturbances of heart rate. High arterial pressure.

SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - general	: Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008.
Ecology - air	: Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009).
Ecology - water	: Harmful to crustacea. Slightly harmful to fishes. Harmful to aquatic plants. Groundwater pollutant. Mild water pollutant (surface water). Not harmful to bacteria.

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Barium Chloride, Dihydrate (10326-27-9) Bioaccumulative potential No bioaccumulation data available. 12.4. Mobility in soil	Barium Chloride, Dihydrate (10326-27-9)		
12.2. Persistence and degradability Barium Chloride, Dihydrate (10326-27-9) Persistence and degradability Biodegradability: not applicable. Chemical oxygen demand (COD) Not applicable ThOD Not applicable BOD (% of ThOD) Not applicable 12.3. Bioaccumulative potential Barium Chloride, Dihydrate (10326-27-9) Bioaccumulation data available. 12.4. Mobility in soil	LC50 fish 1	870 mg/l (Leuciscus idus)	
Barium Chloride, Dihydrate (10326-27-9) Persistence and degradability Biodegradability: not applicable. Chemical oxygen demand (COD) Not applicable ThOD Not applicable BOD (% of ThOD) Not applicable 12.3. Bioaccumulative potential Barium Chloride, Dihydrate (10326-27-9) Bioaccumulation data available. Bioaccumulative potential No bioaccumulation data available.	EC50 Daphnia 1	21.9 mg/l (48 h, Daphnia magna, Anhydrous form)	
Persistence and degradability Biodegradability: not applicable. Chemical oxygen demand (COD) Not applicable ThOD Not applicable BOD (% of ThOD) Not applicable 12.3. Bioaccumulative potential Barium Chloride, Dihydrate (10326-27-9) No bioaccumulation data available. 12.4. Mobility in soil	12.2. Persistence and degradability		
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BOD (% of ThOD) Not applicable 12.3. Bioaccumulative potential Barium Chloride, Dihydrate (10326-27-9) Bioaccumulative potential No bioaccumulation data available. 12.4.	Chemical oxygen demand (COD)	Not applicable	
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Barium Chloride, Dihydrate (10326-27-9) Bioaccumulative potential No bioaccumulation data available. 12.4. Mobility in soil	BOD (% of ThOD)	Not applicable	
Bioaccumulative potential No bioaccumulation data available. 12.4. Mobility in soil	12.3. Bioaccumulative potential		
12.4. Mobility in soil	Barium Chloride, Dihydrate (10326-27-9)		
	Bioaccumulative potential	No bioaccumulation data available.	
	12.4. Mobility in soil		
No additional information available			

Other adverse effects 12.5.

No additional information available

SECTION 13: Disposal consideratio	ns
13.1. Disposal methods	
Waste disposal recommendations	: Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Remove to an authorized dump (Class I). Detoxicate.
Additional information	: Hazardous waste according to Directive 2008/98/EC, as amended by Regulation (EU) No 1357/2014 and Regulation (EU) No 2017/997.
SECTION 14: Transport information	
Department of Transportation (DOT) In accordance with DOT	
Transport document description	: UN1564 Barium compounds, n.o.s., 6.1, III
UN-No.(DOT)	: UN1564
Proper Shipping Name (DOT)	: Barium compounds, n.o.s.
Transport hazard class(es) (DOT)	: 6.1 - Class 6.1 - Poisonous materials 49 CFR 173.132
Packing group (DOT)	: III - Minor Danger
Hazard labels (DOT)	: 6.1 - Poison
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 213
DOT Packaging Bulk (49 CFR 173.xxx)	: 240

DOT Packaging Bulk (49 CFR 173.xxx) DOT Symbols

: G - Identifies PSN requiring a technical name

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DOT Special Provisions (49 CFR 172.102)	 IB8 - Authorized IBCs: Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (11H1, 11H2, 21H1, 21H2, 31H1 and 31H2); Composite (11HZ1, 11HZ2, 21HZ1, 21HZ2, 31HZ1 and 31HZ2); Fiberboard (11G); Wooden (11C, 11D and 11F); Flexible (13H1, 13H2, 13H3, 13H4, 13H5, 13L1, 13L2, 13L3, 13L4, 13M1 or 13M2). IP3 - Flexible IBCs must be sift-proof and water-resistant or must be fitted with a sift-proof and water-resistant liner. T1 - 1.5 178.274(d)(2) Normal 178.275(d)(2) TP33 - The portable tank instruction assigned for this substance applies for granular and powdered solids and for solids which are filled and discharged at temperatures above their melting point which are cooled and transported as a solid mass. Solid substances transported or offered for transport above their melting point are authorized for transportation in portable tanks conforming to the provisions of portable tank instruction T4 for solid substances of packing group III or T7 for solid substances of packing group III or T7 for solid substances of packing group III or T7 for solid substances of packing group II, unless a tank with more stringent requirements for minimum shell thickness, maximum allowable working pressure, pressure-relief devices or bottom outlets are assigned in which case the more stringent tank instruction TP3. Solids meeting the definition of an elevated temperature material must be transported in accordance with the applicable requirements of this subchapter.
DOT Packaging Exceptions (49 CFR 173.xxx)	: 153
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 200 kg
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
Other information	: No supplementary information available.
Transportation of Dangerous Goods	
Transport document description	: UN1564 BARIUM COMPOUND, N.O.S. (Barium Chloride), 6.1, III
UN-No. (TDG)	: UN1564
Proper Shipping Name (Transportation of Dangerous Goods)	: BARIUM COMPOUND, N.O.S.
TDG Primary Hazard Classes	: 6.1 - Class 6.1 - Toxic Substances
Packing group	: III - Minor Danger
TDG Special Provisions	 16 - (1) The technical name of at least one of the most dangerous substances that predominantly contributes to the hazard or hazards posed by the dangerous goods must be shown, in parentheses, on the shipping document following the shipping name in accordance with clause 3.5(1)(c)(ii)(A) of Part 3 (Documentation). The technical name must also be shown, in parentheses, on a small means of containment or on a tag following the shipping name in accordance with subsections 4.11(2) and (3) of Part 4 (Dangerous Goods Safety Marks). (2) Despite subsection (1), the technical name for the following dangerous goods is not required to be shown on a shipping document or on a small means of containment when Canadian law for domestic transport or an international convention for international transport prohibits the disclosure of the technical name: (a)UN1544, ALKALOID SALTS, SOLID, N.O.S. or ALKALOIDS, SOLID, N.O.S; (b)UN1851, MEDICINE, LIQUID, TOXIC, N.O.S; (c)UN3140, ALKALOID SALTS, LIQUID, N.O.S. or ALKALOIDS, LIQUID, N.O.S; (d)UN3248, MEDICINE, LIQUID, FLAMMABLE, TOXIC, N.O.S; or (e)UN3249, MEDICINE, SOLID, TOXIC, N.O.S. An example in Canada is the "Food and Drugs Act". (3) Despite subsection (1), the technical name for the following dangerous goods is not required to be shown on a small means of containment: (a)UN2814, INFECTIOUS SUBSTANCE, AFFECTING HUMANS; or (b)UN2900, INFECTIOUS SUBSTANCE, AFFECTING ANIMALS. SOR/2014-306
Explosive Limit and Limited Quantity Index	: 5 kg
Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index	. 100 Kg
Transport by sea	
Transport document description (IMDG)	: UN 1564 barium compound, n.o.s. (Barium Chloride), 6.1, III
UN-No. (IMDG)	: 1564
Proper Shipping Name (IMDG)	: barium compound, n.o.s.
Class (IMDG)	: 6.1 - Toxic substances
Packing group (IMDG)	: III - substances presenting low danger
EmS-No. (1)	: F-A
EmS-No. (2)	: S-A
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Air transport

Transport document description (IATA)	: UN 1564 Barium compound, n.o.s. (Barium Chloride), 6.1, III
UN-No. (IATA)	: 1564
Proper Shipping Name (IATA)	: Barium compound, n.o.s.
Class (IATA)	: 6.1 - Toxic Substances
Packing group (IATA)	: III - Minor Danger

SECTION 15: Regulatory information		
15.1. US Federal regulations		
Barium Chloride, Dihydrate (10326-27-9)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
SARA Section 311/312 Hazard Classes	Health hazard - Acute toxicity (any route of exposure)	

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

15.2. International regulations CANADA Barium Chloride, Dihydrate (10326-27-9) Listed on the Canadian DSL (Domestic Substances List) **EU-Regulations**

No additional information available

National regulations

Barium Chloride, Dihydrate (10326-27-9)	
Listed on the Canadian IDL (Ingredient Disclosure List)	

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other informati	on
Revision date	: 03/13/2019
Full text of H-phrases: see section 16:	
H301	Toxic if swallowed
H402	Harmful to aquatic life
NFPA health hazard	: 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.
NFPA fire hazard	: 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.
NFPA reactivity	: 0 - Material that in themselves are normally stable, even under fire conditions.
Hazard Rating	·
Health	: 2 Moderate Hazard - Temporary or minor injury may occur
Flammability	: 0 Minimal Hazard - Materials that will not burn
Physical	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.
Personal protection	: E
	E - Safety glasses, Gloves, Dust respirator

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