

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 10/31/2018 Version: 1.0

	stance/mixture and of the company/undertaking
1.1. Product identifier	Orthology
Product form	: Substance
Trade name	: Barium chloride.2aq a.r.
EC Index-No.	: 056-004-00-8
CAS-No.	: 10326-27-9
Product code	: CL00.0207
Type of product	: Pure substance
Formula	: BaCl2.2H2O
Synonyms	: barium chloride, dihydrate / barium dichloride, dihydrate / bariummuriate, dihydrate / chloride of barium, dihydrate / muriate of barium, dihydrate
1.2. Relevant identified uses of the subst	tance or mixture and uses advised against
1.2.1. Relevant identified uses	
Use of the substance/mixture	: Laboratory chemical
1.2.2. Uses advised against No additional information available	
1.3. Details of the supplier of the safety d	lata shoot
Chem-Lab nv	
Industriezone "De Arend" 2	
Zedelgem - Belgium T +32 50 288320	
info@chem-lab.be - www.chem-lab.be	
1.4. Emergency telephone number	
Emergency number	: +32 50 28 83 20
SECTION 2: Hazards identification	
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2.1. Classification of the substance or mi Classification according to Regulation (EC) No	
2.1. Classification of the substance or mi Classification according to Regulation (EC) No Acute toxicity (oral), Category 3	o. 1272/2008 [CLP]
2.1. Classification of the substance or mi Classification according to Regulation (EC) No	o. 1272/2008 [CLP] H301
2.1. Classification of the substance or mi Classification according to Regulation (EC) No Acute toxicity (oral), Category 3 Acute toxicity (inhal.), Category 4 Full text of H statements : see section 16	o. 1272/2008 [CLP] H301 H332
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Substance type	: Mono-constituent		
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Barium chloride.2aq a.r.	(CAS-No.) 10326-27-9 (EC Index-No.) 056-004-00-8	100	Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Inhalation), H332

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

3.2. Mixtures Not applicable

SECTION 4: First aid measures 4.1. Description of first aid measures First-aid measures general : Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital. First-aid measures after inhalation : Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service. First-aid measures after skin contact : Rinse with water. Soap may be used. Do not apply (chemical) neutralizing agents. Take victim to a doctor if irritation persists. First-aid measures after eye contact : Rinse with water. Remove contact lenses, if present and easy to do. Continue rinsing. Do not apply neutralizing agents. Take victim to an ophthalmologist if irritation persists. : Rinse mouth with water. Give nothing to drink. Victim is fully conscious: immediately induce First-aid measures after ingestion vomiting. Induce vomiting by giving a 0.9 % saline solution. Immediately consult a doctor/medical service. Call Poison Information Centre (www.big.be/antigif.htm). Take the container/vomit to the doctor/hospital. Ingestion of large quantities: immediately to hospital. Doctor: administration of chemical antidote. Doctor: gastric lavage. 4.2. Most important symptoms and effects, both acute and delayed 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.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Adapt extinguishing media to the environment for surrounding fires.
5.2. Special hazards arising from the substa	ince or mixture
Fire hazard	: DIRECT FIRE HAZARD: Non combustible.
Hazardous decomposition products in case of fire	: On burning: release of toxic and corrosive gases/vapours (hydrogen chloride).
5.3. Advice for firefighters	
Precautionary measures fire	: Exposure to fire/heat: keep upwind. Exposure to fire/heat: consider evacuation. Exposure to fire/heat: have neighbourhood close doors and windows.
Firefighting 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.
Protection during firefighting	: Heat/fire exposure: compressed air/oxygen apparatus.

Disturbances of heart rate. High arterial pressure.

Increased salivation. Myasthenia. Cramps/uncontrolled muscular contractions. Paralysis.

SECTION 6: Accidental release measures		
6.1. Personal precautions, protective equipment and emergency procedures		
6.1.1. For non-emergency personnel		
Protective equipment	: Gloves. Protective clothing. Dust cloud production: compressed air/oxygen apparatus. Reactivity hazard: compressed air/oxygen apparatus. Reactivity hazard: gas-tight suit.	
Emergency 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.	
Measures 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		
No additional information available		
6.2. Environmental precautions		
Prevent soil and water pollution. Prevent spreading in sewers.		
6.3. Methods and material for containment an	d cleaning up	
For containment	: Contain released product, 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.	

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Methods 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 additional information available

SECTION 7: Handling and starses	
SECTION 7: Handling and storage 7.1. Precautions for safe handling	
Additional hazards when processed	: Pulverization rapidly increases toxic concentration.
Precautions 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	: Observe strict hygiene.
7.2. Conditions for safe storage, including a	any incompatibilities
Heat and ignition sources	: KEEP SUBSTANCE AWAY FROM: heat sources.
Information 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.
7.3. Specific end use(s)	

No additional information available

Igium Limit value (mg/m³) 0.5 ance VME (mg/m³) 0.5 atherlands Grenswaarde TGG 8H (mg/m³) 0.5 aited Kingdom WEL TWA (mg/m³) 0.5 SA - ACGIH ACGIH TWA (mg/m³) 0.5 ACGIF controls VE GOOD RESISTANCE: butyl rubber. chloroprene rubber. chlorinated polyethylene. neopolyteks and protection: Doves	.5 mg/m ³ ((Ba)) .5 mg/m ³ .5 mg/m ³ .5 mg/m ³ (als Ba) .5 mg/m ³ .5 mg/m ³		
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and protection:	prene. PVC. viton		
oves			
	Hand protection:		
e protection:	Gloves		
	Eye protection:		
Safety glasses. In case of dust production: protective goggles			
Skin and body protection:			
Protective clothing			
Respiratory protection:			
ist production: dust mask with filter type P3. High dust production: self-contained breathing	Dust production: dust mask with filter type P3. High dust production: self-contained breathing apparatus		

9.1. Information on basic physical and chemical properties	
Physical state	: Solid
Appearance	: Crystalline solid. Powder. Crystalline powder. Grains.
Molecular mass	: 244.28 g/mol
Colour	: Colourless to white.
Odour	: Odourless.

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Odour threshold	: No data available
рН	: 5 - 8 (5 %)
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: 963 °C
Freezing point	: No data available
Boiling point	: 1560 °C
Flash point	: Not applicable
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: < 0.1 hPa (20 °C)
Relative vapour density at 20 °C	: Not applicable
Relative density	: 3.1
Density	: 3100 kg/m³
Solubility	: Soluble in water.
	Water: 36 g/100ml
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available
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
No additional information available
10.4. Conditions to avoid
No additional information available
10.5. Incompatible materials
No additional information available
10.6. Hazardous decomposition products
Reacts with (some) acids: release of toxic and corrosive gases/vapours (hydrogen chloride).

SECTION 11: Toxicological information	
11.1. Information on toxicological effects	
Acute toxicity (oral)	: Oral: Toxic if swallowed.
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Inhalation: Harmful if inhaled.
Barium chloride.2aq a.r. (10326-27-9)	
LD50 oral rat	118 mg/kg (Rat, Oral)
Skin corrosion/irritation	: Not classified
	pH: 5 - 8 (5 %)
Serious eye damage/irritation	: Not classified
	pH: 5 - 8 (5 %)
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Potential adverse human health effects and symptoms	: Toxic if swallowed. Harmful if inhaled.

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

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.	
Acute aquatic toxicity	: Not classified	
Chronic aquatic toxicity	: Not classified	
Barium chloride.2aq a.r. (10326-27-9)		
LC50 fish 1	870 mg/l (Leuciscus idus)	
EC50 Daphnia 1	21.9 mg/l (48 h, Daphnia magna, Anhydrous form)	
12.2. Persistence and degradability		
Barium chloride.2aq a.r. (10326-27-9)		
Persistence and degradability	Biodegradability: not applicable.	
Biochemical oxygen demand (BOD)	Not applicable	
Chemical oxygen demand (COD)	Not applicable	
ThOD	Not applicable	
BOD (% of ThOD)	Not applicable	
12.3. Bioaccumulative potential		
Barium chloride.2aq a.r. (10326-27-9)		
Bioaccumulative potential	No bioaccumulation data available.	
12.4. Mobility in soil		
No additional information available		
12.5. Results of PBT and vPvB assessment		
No additional information available		
12.6. Other adverse effects No additional information available		

 SECTION 13: Disposal considerations

 13.1. Waste treatment methods

 Product/Packaging 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.

 European List of Waste (LoW) code
 : 15 01 10* - packaging containing residues of or contaminated by dangerous substances 16 03 03* - inorganic wastes containing dangerous substances

SECTION 14: Transport information In accordance with ADR / RID / IMDG / IATA / ADN					
ADR	IMDG	ΙΑΤΑ	ADN	RID	
14.1. UN number					
1564	1564	1564	1564	1564	
14.2. UN proper shipping name					
Barium compound, n.o.s.	Barium compound, n.o.s.	Barium compound, n.o.s.	Barium compound, n.o.s.	Barium compound, n.o.s.	
Transport document description					
UN 1564 Barium compound, n.o.s., 6.1, III, (E)	UN 1564 Barium compound, n.o.s., 6.1, III				
14.3. Transport hazard class(es)					
6.1	6.1	6.1	6.1	6.1	
10/31/2018 (Version: 1.0)		EN (English)		5/7	

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830				
6	6	6	6	6
14.4. Packing group				
III	III	III	III	III
14.5. Environmental haz	ards			
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No
No supplementary informatio	n available			
14.6. Special precautions	s for user			
Overland transport				
Transport regulations (ADR)	: Subject to the provisions			
Classification code (ADR) : T5				
Hazard identification number ((Kemler No.) : 60			
Orange plates		60 1564		
Tunnel restriction code (ADR)	: E			
EAC code	: 2Z			
Transport by sea				
Transport regulations (IMDG)	: Sul	pject to the provisions		
EmS-No. (Fire)	: F-A	N N		
EmS-No. (Spillage)	: S-A	N		
Air transport				
Transport regulations (IATA)	: Sul	pject to the provisions		
Inland waterway transport				
Classification code (ADN)	: T5			
Rail transport				
Transport regulations (RID)	: Sul	pject to the provisions		
Classification code (RID)	: T5			
14.7. Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable				

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

No REACH Annex XVII restrictions Barium chloride.2aq a.r. is not on the REACH Candidate List Barium chloride.2aq a.r. is not on the REACH Annex XIV List

VOC content Directive 2012/18/EU (SEVESO III)	: 0 %
15.1.2. National regulations	
Germany	
Reference to AwSV	: Water hazard class (WGK) 1, low hazard to water
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	: Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)
Netherlands	
SZW-lijst van kankerverwekkende stoffen	: The substance is not listed
SZW-lijst van mutagene stoffen	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	: The substance is not listed

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

5 5 (-)	5 (-)
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	: The substance is not listed
Denmark	
Danish National Regulations	: Young people below the age of 18 years are not allowed to use the product
15.2. Chemical safety assessment	
No additional information available	

SECTION 16: Other information Full text of H- and EUH-statements: Acute toxicity (oral), Category 3 Acute Tox. 3 (Oral) Acute Tox. 4 (Inhalation) Acute toxicity (inhal.), Category 4 H301 Toxic if swallowed. H332 Harmful if inhaled.

SDS Zonder Big

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product