

Bismuth(III) nitrate.5aq v.p. 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

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Take name: Bismuth(III) nitrate.Saq v.p.CAS-No.: 10035-06-0Product code: CL00.028Type of product: Pure substance. Hygroscopic substance. Preventive measures apply to the substance in dy state onlyFormula: BI(NO3)3.8H2OSynonyms: Bismuthinitize, pentahydrate / bismuthinitize, pentahydrate / hitric acid, bismuth(3+) salt, pentahydrate1.2. Relevant identified uses: Laboratory chemical1.2.1. Relevant identified uses: Laboratory chemical1.2.2. Uses advised against: Laboratory chemical1.3. Details of the substance or mixture and uses advised against1.3. Details of the substance bismuthinitize, pentahydrate / nitric acid, bismuth(3+) salt, pentahydrate1.3. Details of the substance or mixture and uses advised against1.3. Details of the substance or mixture1.4. Emergency number2.1. Classification of the substance or mixture2.1. Classification of the substance or mixture3. Classification of the substance or mixture2.1. Classification of the substance or mixture2.1. Classification of the substance ore mixture3. Cla	1.1. Product identifier	
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SECTION 3: Composition/information on ingredients		

SECTION 3: Composition/information on ingredients 3.1. Substances Substance type : Mono-constituent

Bismuth(III) nitrate.5aq v.p. Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Ox. Sol. 2, H272 Skin Irrit. 2, H315 Eye Irrit. 2, H319

text of H-statements: see section 16

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	: Wash immediately with lots of water. Do not apply (chemical) neutralizing agents. Take victim to a doctor if irritation persists.
First-aid measures after eye contact	: Rinse immediately with plenty of 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.
First-aid measures after ingestion	: Rinse mouth with water. Victim is fully conscious: immediately induce vomiting. Induce vomiting by giving a 0.9 % saline solution. Call Poison Information Centre (www.big.be/antigif.htm). Consult a doctor/medical service if you feel unwell. Ingestion of large quantities: immediately to hospital.
4.2. Most important symptoms and effects,	both acute and delayed
Symptoms/effects after skin contact	: Tingling/irritation of the skin. Methemoglobinemia.
Symptoms/effects after eye contact	: Irritation of the eye tissue.
4.3. Indication of any immediate medical at	tention 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. INDIRECT FIRE HAZARD: May intensify fire; oxidiser. Reactions involving a fire hazard: see "Reactivity Hazard".
Hazardous decomposition products in case of fire	: On heating/burning: release of toxic and corrosive gases/vapours (nitrous vapours).
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	: Dilute toxic gases with water spray.
Protection during firefighting	: Heat/fire exposure: compressed air/oxygen apparatus.

SECTION 6: Accidental release measures 6.1. Personal precautions, protective equipment and emergency procedures	
6.1.1. For non-emergency personnel	
Protective equipment	: Gloves. Face-shield. Protective clothing. Dust cloud production: compressed air/oxygen apparatus. Dust cloud production: dust-tight suit.
Emergency procedures	: Mark the danger area. Prevent dust cloud formation. No naked flames. Wash contaminated clothes.
Measures in case of dust release	: In case of dust production: keep upwind. Dust production: have neighbourhood close doors and windows.
6.1.2. For emergency responders	
No additional information available	
6.2. Environmental precautions	
Prevent spreading in sewers.	
6.3. Methods and material for containment and cleaning up	
For containment	: Contain released product, pump into suitable containers. Plug the leak, cut off the supply. Dam up the solid spill.

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Methods for cleaning up	: Prevent dispersion by covering with dry sand/earth. Scoop solid spill into closing containers. Carefully collect the spill/leftovers. Spill must not return in its original container. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.

6.4. Reference to other sections No additional information available

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Avoid raising dust. Keep away from naked flames/heat. Carry operations in the open/under local exhaust/ventilation or with respiratory protection. Comply with the legal requirements. Remove contaminated clothing immediately. Clean contaminated clothing. Keep the substance free from contamination. Thoroughly clean/dry the installation before use. Do not discharge the waste into the drain. Keep container tightly closed.
Hygiene measures	: Reduce/avoid exposure and/or contact.
7.2. Conditions for safe storage, including	g any incompatibilities
Heat and ignition sources	: KEEP SUBSTANCE AWAY FROM: heat sources.
Information on mixed storage	: KEEP SUBSTANCE AWAY FROM: combustible materials. water/moisture.
Storage area	: Store in a cool area. Store in a dry area. Keep only in the original container. Meet the legal requirements.
Special rules on packaging	: SPECIAL REQUIREMENTS: closing. watertight. dry. clean. correctly labelled. meet the legal requirements. Secure fragile packagings in solid containers.
Packaging materials	: SUITABLE MATERIAL: glass. synthetic material.
7.3. Specific end use(s)	

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available 8.2. Exposure controls

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Materials for protective clothing:

GIVE GOOD RESISTANCE: neoprene

Hand protection:

Gloves

Eye protection:

Face shield. In case of dust production: protective goggles

Skin and body protection:

Protective clothing. In case of dust production: head/neck protection. In case of dust production: dustproof clothing

Respiratory protection:

Dust production: dust mask with filter type P2

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Flammability (solid, gas)	: No data available	
Decomposition temperature	: 80 °C	
Auto-ignition temperature	: No data available	
Flash point	: No data available	
Boiling point	: No data available	
Freezing point	: No data available	
Melting point	: No data available	
Relative evaporation rate (butylacetate=1)	: No data available	
рН	: No data available	
Odour threshold	: No data available	
Odour	: Irritating/pungent odour.	
Colour	: Colourless.	
Molecular mass	: 485.07 g/mol	
Appearance	: Crystalline solid.	
Physical state	: Solid	
SECTION 9: Physical and chemical 9.1. Information on basic physical and of		
SECTION & Physical and chamical	proportion	

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Vapour pressure	: No data available
Relative vapour density at 20 °C	: Not applicable
Relative density	: 2.8
Density	: 2830 kg/m³
Solubility	: Decomposes on exposure to water. Soluble in organic solvents.
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: May intensify fire; oxidiser.
Explosive limits	: No data available
9.2. Other information	
VOC content	:0%
Other properties	: Hygroscopic. Acid reaction.

SECTION 10: Stability and reactivity
10.1. Reactivity
Decomposes on exposure to water (moisture): (increased) risk of fire.
10.2. Chemical stability
Unstable on exposure to heat. Unstable on exposure to moisture.
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
No additional information available

SECTION 11: Toxicological information	on
11.1. Information on toxicological effects	
Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
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	: Causes skin irritation. Causes serious eye irritation.

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	: May cause eutrophication. Insufficient data available on ecotoxicity. pH shift.
Acute aquatic toxicity	: Not classified
Chronic aquatic toxicity	: Not classified
12.2. Persistence and degradability	
Bismuth(III) nitrate.5aq v.p. (10035-06-0)	
Persistence and degradability	Biodegradability: not applicable.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
10/21/2018 (Varging: 1.0)	ENI (English)

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ThOD	Not applicable
BOD (% of ThOD)	Not applicable
12.3. Bioaccumulative potential	
Bismuth(III) nitrate.5aq v.p. (10035-06-0)	
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	
12.4. Mobility in soil No additional information available 12.5. Results of PBT and vPvB assessment No additional information available	

No additional information available

SECTION 13: Disposal considerations 13.1. Waste treatment methods	
Product/Packaging disposal recommendations	: Do not discharge into surface water. 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. Recycle/reuse.
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

CECTION 44. Transmost information	
SECTION 14: Transport information	
In accordance with ADD / DD / IMDC / IATA / ADN	

ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number		1		
1477	1477	1477	1477	1477
14.2. UN proper shipping	g name			
Nitrates, inorganic, n.o.s.	Nitrates, inorganic, n.o.s.	Nitrates, inorganic, n.o.s.	Nitrates, inorganic, n.o.s.	Nitrates, inorganic, n.o.s
Transport document descri	ption			
UN 1477 Nitrates, inorganic, n.o.s., 5.1, II, (E)	UN 1477 Nitrates, inorganic, n.o.s., 5.1, II	UN 1477 Nitrates, inorganic, n.o.s., 5.1, II	UN 1477 Nitrates, inorganic, n.o.s., 5.1, II	UN 1477 Nitrates, inorganic, n.o.s., 5.1, II
14.3. Transport hazard c	lass(es)	1		
5.1	5.1	5.1	5.1	5.1
5.1	5.1	5.1	5.1	5.1
14.4. Packing group		1		
II	II	II	II	II
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 information available				
14.6. Special precautions for user				
Overland transport				
ransport regulations (ADR)		bject to the provisions		
Classification code (ADR)	: 02			

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Orange plates	50 1477	
Tunnel restriction code (ADR)	: E	
EAC code	: 1Y	
Transport by sea		
Transport regulations (IMDG)	: Subject to the provisions	
EmS-No. (Fire)	: F-A	
EmS-No. (Spillage)	: S-Q	
Air transport		
Transport regulations (IATA)	: Subject to the provisions	
Inland waterway transport		
Classification code (ADN)	: 02	
Rail transport		
Transport regulations (RID)	: Subject to the provisions	
Classification code (RID)	: O2	
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

Bismuth(III) nitrate.5aq v.p. is not on the REACH Candidate List Bismuth(III) nitrate.5aq v.p. is not on the REACH Annex XIV List

VOC content

:0%

Directive 2012/18/EU (SEVESO III)

15.1.2. National regulations

Germany

Germany	
Reference to AwSV	: Water hazard class (WGK) 2, significant hazard to water (Classification according to AwSV; ID No. 2108)
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	: Is not subject of the 12. BlmSchV (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
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

15.2. Chemical safety assessment No additional information available

SECTION 16: Other information

Full text of H- and EUH-statements:	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Ox. Sol. 2	Oxidising Solids, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
H272	May intensify fire; oxidiser.
H315	Causes skin irritation.
H319	Causes serious eye irritation.

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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