# Vickers Laboratories Ltd - Safety Data Sheet

1527

(in accordance with regulation (EU) 2015/830 and regulation (EC) 1272/2008)

Revision: 1.2 Revision date: 16 April 2021 Date printed: 03 February 2023

# **Section 1. Identification**

1.1 Product Identifier 1527

Product Name BISMUTH (III) CHLORIDE pure

CAS Number 7787-60-2

REACH Registration No A registration number is not available as the substance or its uses are exempt, the

annual tonnage does not require a registration or the registration is envisaged for a

later date.

Molecular Formula BiCl<sub>3</sub> =315.34

#### 1.2 Relevent identified uses of the substance or mixure & uses advised against

Uses of Material Chemical for industrial and laboratory use. Not suitable for domestic use.

#### 1.3 Supplier Vickers Laboratories Ltd



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lhr) 1.

(Have this document to hand)

# **Section 2. Hazards Identification**

# 2.1 Classification of the substance or mixture

### Classification according to regulation 1272/2008/EC

Skin corrosion/irritation, category 2 Serious eye damage/irritation, category 2 Spec target organ tox - single, category 3 H315: Causes skin irritation. H319: Causes serious eye irritation. H335: May cause respiratory irritation.

#### 2.2 Label elements

#### Labelling according to regulation 1272/2008/EC

Signal word Warning

Hazard Pictograms



Ref: 1527

Hazard Statements Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.

**Precautionary Statements** 

Avoid breathing dust / fume / gas / mist / vapours / spray. Wash thoroughly after handling. Wear protective gloves / protective clothing / eye protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing. If eye irritation persists: Get medical

advice/attention.

# **Section 3. Composition**

#### 3.1 Substances

Component	CAS No. EEC	No. REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
Bismuthyl chloride	7787-60-2 232-12	3-2	100%	Skin Irrit. 2,Eye Irrit. 2,STOT SE 3 (I)

### Section 4. First Aid

#### 4.1 Description of first aid measures

Eyes Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. OBTAIN MEDICAL

ATTENTION URGENTLY.

Skin Wash off skin thoroughly with water. Remove contaminated clothing immediately and wash before re-use. If

irritation persists or there is any sign of skin damage, seek IMMEDIATE MEDICAL ASSISTANCE

Remove from exposure. Keep warm and at rest. If there is difficulty in breathing give oxygen if available. If breathing stops or shows signs of failing, apply artificial resuscitation. OBTAIN MEDICAL ATTENTION Inhalation

URGENTLY.

Ingestion If conscious give plenty of water to drink. Do not induce vomiting. OBTAIN MEDICAL ATTENTION

URGENTLY.

Personal protection for first Wear protective gloves / eye protection.

aiders

#### 4.2 Most important symptoms and effects, both acute & delayed.

No further relevant information available.

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

No further relevant information available.

### **Section 5. Fire Fighting**

#### 5.1 Extinguishing media

Extinguishing Media Consider what other flammable materials are present and act accordingly.

Unsuitable Media Do not allow water to come into direct contact with material.

#### 5.2 Special hazards arising from the substance or mixture

Hazards May evolve toxic fumes if involved in a fire.

### 5.3 Advice for firefighters

Advice for firefighters Evacuate area immediately. Keep up wind. Avoid exposure to toxic vapours and fumes. Fire-fighters should wear

protective clothing and breathing apparatus.

### Section 6. Accidental Release Measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Personal Protection Avoid breathing dust. Use approved personal protective equipment. Evacuate area immediately. Do not allow

other people to enter area. Do not allow general use of area until it is safe to do so.

#### 6.2 Environmental precautions

Enviromental Keep non-neutralised material out of sewers, storm drains, surface waters and soil. Notify the Environmental

Agency and local Environmental Health Officer if major spillage occurs.

### 6.3 Methods and material for containment and cleaning up

Major Spillage Vacuum up into container for removal. Carefully remove material from vacuum cleaner and transfer to sealable

container for disposal. Carry out this operation under fume extraction.

Minor Spillage Vacuum up into container for removal. Carefully remove material from vacuum cleaner and transfer to sealable

container for disposal. Carry out this operation under fume extraction.

#### 6.4 Reference to other sections

See section 8.2 for information on protective equipment and section 13 for information on disposal.

# Section 7. Storage & Handling

#### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Do not breath dust. Do not allow to contaminate clothing.

Ensure Local Exhaust Ventilation maintains dust concentrations below the recommended limits.

#### 7.2 Conditions for safe storage, including any incompatibilities

Well ventilated, cool, dry storage.

#### 7.3 Specific end use(s)

See section 1.2.

# Section 8. Workplace Exposure & Personal Protection

#### 8.1 Control parameters

Component	CAS No	Concentration	Workplace Exposure Limits			
			Long Term (8hr TWA)		Short Term 15min period)	
Bismuthyl chloride	7787-60-2	100%	-	-	-	-

Exposure data source(s) No occupational exposure data currently available.

#### 8.2 Exposure controls

Respiratory Protection If process creates significant amounts of dust use L.E.V. or wear suitable dust mask.

Hand Protection Use nitrile gloves or PVC gauntlets.

Eye Protection Use chemical full face shield.

Skin Protection If skin contact or contamination of clothing is likely, protective clothing must be worn. Wear PVC oversuit.

Special Hazards No special precautions required.

### Section 9. Physical & Chemical Properties

#### 9.1 Information on basic physical and chemical properties

Appearance Off-white granules. Odour No specific odour. pН Not applicable 447 °C **Boiling Point** 230-232 °C Melting Point Flash Point Not applicable Upper Flammable Limit Not applicable Lower Flammable Limit Not applicable Auto Ignition Not applicable **Explosive Properties** No. Oxidising Properties No.

Vapour Pressure Not applicable Relative Density 4.750

Water Solubility Decomposes in water.

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#### 9.2 Other information

No data available.

# Section 10. Stability & Reactivity

10.1 Reactivity No data available.

Stable under normal conditions 10.2 Chemical Stability

10.3 Possibility of hazardous

reactions

No data available.

Avoid ingress of water: decomposes slowly producing hydrochloric acid. **10.4** Conditions to Avoid

10.5 Incompatable Materials

Will decompose to emit toxic and irritant fumes of hydrogen chloride. **Hazardous Decomposition** 

# Section 11. Toxicological Information

#### 11.1 Information on toxicological effects

Contact with the solid or dust will be extremely irritating to eyes and can cause chemical eye burns. Eyes

Skin Contact with the solid or dust will be irritating to the skin.

LD50 Skin Not available

May be harmful by ingestion. Ingestion

LD50 Oral 3334mg/kg Rat

Inhalation of dust may result in spasm, inflammation and edema of the larynx and bronchi, chemical pneumonitis Inhalation

and pulmonary edema. Symtoms of exposure may include burning sensation, coughing, wheezing, laryngitis,

shortness of breath, headache, neasea and vomiting.

LD50 Inhalation Not available TCLo Not available

Not considered to be a carcinogen. Carcinogenicity

No information is available. Mutagenicity Reproductive Effects No information is available.

Other Information Symtoms of chronic bismuth toxicity in humans consists of decreased appetite, weakness, diarrhoea, fever, metal

line on the gums, foul breath, gingivitis and dermatitis.

# Section 12. Ecological

12.1 Toxicity No specific environmental hazard.

Not available LC50 Algal LC50 Crustacea Not available LC50 Fish Not available 12.2 Persistence and No data available.

degradability

12.3 Bioaccumulative potential No data available. 12.4 Mobility in soil No data available.

Results of PBT & vPvB

assessment

Assessment not required.

12.6 Other adverse effects None known at present.

### **Section 13. Disposal Considerations**

#### 13.1 Waste treatment methods

Disposal Methods Do not dispose of as domestic waste. Contaminated Packaging Use a licensed waste disposer.

# **Section 14. Transport Information**

14.1 UN Number Non-restricted14.2 Proper Shipping Name Non-restricted

14.3 Transport classes

UN classification None
Subsidiary hazard(s) None
Transport category None

ADR Hazard ID Non-restricted
Tunnel Restriction Code Non-restricted

14.4 Packing Group None

**14.5 Environment hazards** See section 12.

**14.6 Special precautions for** No special precautions required.

user

**14.7 Transport in bulk** Not transported in bulk.

### Section 15. Regulatory Information

# $15.1\ Safety, health\ and\ environment\ regulations\ specific\ for\ subtance/mixture.$

#### Classification, Labeling & Packaging of Substances & Mixtures Regulations (1272/2008/CE)

Classification Skin corrosion/irritation, category 2; Serious eye damage/irritation, category 2; Spec target organ tox - single,

category 3

Signal word Warning

**Hazard Pictograms** 



Hazard Statements H315, H319, H335

Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.

Precautionary Statements P261, P264, P280, P305+P351+P338, P337+P313

Avoid breathing dust / fume / gas / mist / vapours / spray. Wash thoroughly after handling. Wear protective gloves / protective clothing / eye protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing. If eye irritation persists: Get medical

advice/attention.

#### 15.2 Chemical safety assessment

Assessment not required.

# **Section 16. Other Information**

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment. See sections 11 for toxicological information and section 12 for ecological information.

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