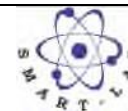


MATERIAL SAFETY DATA SHEET**BISMUTH SULPHATE**

Revision : 00

Date of Issue: February 19, 2019

MSDS Number : 0318

Section 1 - Chemical Product and Company Identification

- 1.1 Product Name** : **BISMUTH SULPHATE**
Synonyms : Bismuth trisulfat, dibismuth trisulfat
CAS No. : 7787-68-0
HS Code : 2833 29 90
Molecular Weight : 706.15 g/mol
Chemical Formula : $\text{Bi}_2(\text{SO}_4)_3$
Product Code : A-2382
Brand : SMART-LAB
- 1.2 Manufacturer** : **PT.Smart-Lab Indonesia**
Address : Ruko Boulevard TamanTekno Blok E No.10 -11BSD SektorXI
 Serpong, Tangerang - Indonesia
Website : www.smartlabid.com
Email : sales@smartlabid.com
For information : Telp: +62 21- 7588 0205(Hunting) , fax:+62-21-7588 0198
- 1.3 Application** : General Chemical reagent
Emergency Telephone: +62-21-7588 0205(Hunting)

Section 2 - Hazards Identification

2.1 Classification of the substance or mixture**Classification according to Regulation (EC) No 1272/2008**

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.2 Label elements

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.3 Other hazards

none

Section 3 - Composition, Information on Ingredients

3.1 Substances

- Synonyms** : **BISMUTH SULPHATE**
Formula : $\text{Bi}_2(\text{SO}_4)_3$
Molecular weight : 706.15 g/mol
CAS-No. : 7787-68-0

No components need to be disclosed according to the applicable regulations.

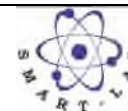
Section 4 - First Aid Measures

4.1 Description of first aid measures**General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

MATERIAL SAFETY DATA SHEET**BISMUTH SULPHATE**

Revision : 00

Date of Issue: February 19, 2019

MSDS Number : 0318

In case of skin contact

Wash off with soap and plenty of water

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

Section 5 - Firefighting Measures

5.1 Extinguishing media**Suitable extinguishing media** : Carbon dioxide. Dry powder. Foam. Water spray**Unsuitable extinguishing media** : Do not use a heavy water stream.**5.2 Special hazards arising from the substance or mixture**

No data available

5.3 Advice for firefighters

Do not enter fire area without proper protective equipment, including respiratory protection.

5.4 Further information

No data available

Section 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Protective equipment : Equip cleanup crew with proper protection.

6.2 Environmental precautions

Avoid release to the environment.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. On land, sweep or shovel into suitable containers.

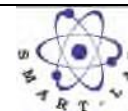
6.4 Reference to other sections

No data available

Section 7 - Handling and Storage

7.1 Precautions for safe handling

Precautions for safe handling : Avoid contact with skin and eyes. Do not breathe vapours.

MATERIAL SAFETY DATA SHEET**BISMUTH SULPHATE**

Revision : 00

Date of Issue: February 19, 2019

MSDS Number : 0318

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, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep container tightly closed.

7.3 Specific end use(s)

No data available

Section 8 - Exposure Controls, Personal Protection

8.1 Control parameters**8.2 Exposure controls****Appropriat engineering controls**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment**Eye/face protection**

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Body Protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Respiratory protection is not required. Where protection from nuisance le (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Do not let product enter drains.

Section 9 - Physical and Chemical Properties

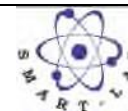
9.1 Information on basic physical and chemical properties

Appearance

Form: Solid

Odour

Colour: White powder.
odourless.

MATERIAL SAFETY DATA SHEET**BISMUTH SULPHATE**

Revision : 00

Date of Issue: February 19, 2019

MSDS Number : 0318

Odour Threshold	No data available
pH	No data available
Melting point/freezingpoint	405 °C
Initial boiling point and boiling range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability or explosive limits	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	5.08 g/cm ³
Water solubility	Water: Decomposes
Partition coefficient: octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidizing properties	No data available

9.2 Other safety information

No data available

Section 10 - Stability and Reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

Direct sunlight. Moisture.

10.5 Incompatible materials

No data available

10.6 Hazardous decomposition products

No data available

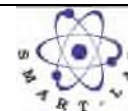
Section 11 - Toxicological Information

11.1 Information on toxicological effects**Acute toxicity**

No data available

Skin corrosion/irritation

No data available

MATERIAL SAFETY DATA SHEET**BISMUTH SULPHATE**

Revision : 00

Date of Issue: February 19, 2019

MSDS Number : 0318

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitisation

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

Additional Information

RTECS: Not available

Section 12 - Ecological Information

12.1 Toxicity

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

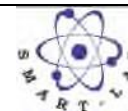
12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects

No data available

Section 13 - Disposal Considerations

MATERIAL SAFETY DATA SHEET**BISMUTH SULPHATE**

Revision : 00

Date of Issue: February 19, 2019

MSDS Number : 0318

13.1 Waste treatment methods**Product**

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

Section 14 - Transport Information

14.1 UN number

ADR/RID: -

IMDG: -

IATA: -

14.2 UN proper shipping name

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

14.3 Transport hazard class(es)

ADR/RID: -

IMDG: -

IATA: -

14.4 Packaging group

ADR/RID: -

IMDG: -

IATA:-

14.5 Environmental hazards

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

14.6 Special precautions for user**Further information**

No data available

Section 15 - Regulatory Information

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

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out

Section 16 - Additional Information

National Fire Protection Association (U.S.A.):

Health: 0

Flammability: 0

Reactivity: 0

Revision history :

Date	Rev	Description
Feb 19, 2019	01	-

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. PT. Smartlab Indonesia Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.