

H315 H319

	Bismuth N CAS No 1003		MATERIAL SAFETY DATA SHEET SDS/MSDS	
SEC 1.1	SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1 Product identifiers Product name : Bismuth Nitrate			
	CAS-No.	: 10035-06-0		
1.2	Relevant identified use	s of the substance or mi	ixture and uses advised against	
	Identified uses	: Laboratory chemica	als, Industrial & for professional use only.	
1.3	Details of the supplier Company	Estate	Solvents Pvt. Ltd ndustrial Estate, Opp Mittal d, Andheri (E), Mumbai -	
	Telephone Email	: +91 22 4928 4000 : sales@pallavchem		
1.4	Emergency telephone Emergency Phone #		(9:00am - 6:00 pm) [Office hours]	
SEC	TION 2: Hazards identific	ation		
2.1	Classification of the sub	stance or mixture		
	Classification according to Regulation (EC) No 1272/2008 Oxidizing solids (Category 2), H272 Skin irritation (Category 2), H315 Eye irritation (Category 2), H319 Specific target organ toxicity - single exposure (Category 3), H335			
	For the full text of the H-Statements mentioned in this Section, see Section 16.			
	Classification according to EU Directives 67/548/EEC or 1999/45/EC O, Xi Oxidising, Irritant R 8, R36/37/38			
	For the full text of the R-phrases mentioned in this Section, see Section 16.			
2.2	Label elements			
	Labelling according Regulation (EC) No 1272/2008 Pictogram			
	Signal word	Danger		
	Hazard statement(s) H272 H315	May intensify fire; Causes skin irritat		

Causes serious eye irritation.

Page 1 of 7

H335May cause respiratory irritation.Precautionary statement(s)Keep/Store away from clothing/ combustible materials.P220Keep/Store away from clothing/ combustible materials.P261Avoid breathing dust.P305 + P351 + P338IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.Supplemental Hazard Statementsnone

2.3 Other hazards - none

SECTION 3: Composition/information on ingredients

3.1 Substances

: 3O9 · 5H2O : 485,07 g/mol : 10035-06-0		
	-C) No 4072/2009	
according to Regulation (Classification	Concentration
e (1:5)		
	Ox. Sol. 2; Skin Irrit. 2; Eye	-
)))	
	, ,	
according to Directive 199	9/45/EC	
	Classification	Concentration
e (1:5)		
	O, Xi, R 8 - R36/37/38	-
	: 485,07 g/mol : 10035-06-0 : 233-791-8 according to Regulation (F se (1:5)	: 309 · 5H2O : 485,07 g/mol : 10035-06-0 : 233-791-8 according to Regulation (EC) No 1272/2008 Classification :e (1:5) Ox. Sol. 2; Skin Irrit. 2; Eye Irrit. 2; STOT SE 3; H272, H315, H319, H335 according to Directive 1999/45/EC Classification :e (1:5)

For the full text of the H-Statements and R-Phrases mentioned in this Section, see Section

16 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.

lf inhaled

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

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

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

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 Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

- 5.2 Special hazards arising from the substance or mixture Nature of decomposition products not known.
- **5.3** Advice for firefighters Wear self contained breathing apparatus for fire fighting if necessary.
- **5.4** Further information Use water spray to cool unopened containers.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.
- 6.2 Environmental precautions Do not let product enter drains.
- **6.3** Methods and materials for containment and cleaning up Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.
- **6.4 Reference to other sections** For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.Keep away from sources of ignition -No smoking.Keep away from heat and sources of ignition. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

hygroscopic

7.3 Specific end use(s)

A part from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Components with workplace control parameters

8.2 Exposure controls

Appropriate 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

Safety glasses with side-shields conforming to EN166 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.

Body Protection

impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. 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

	a)	Appearance	Form: solid
	b)	Odour	no data available
	c)	Odour Threshold	no data available
	d)	рН	no data available
	e)	Melting point/freezing point	Melting point/range: 30 °C - lit.
	f)	Initial boiling point and boiling range	75 - 80 °C - lit.
	g)	Flash point	no data available
	h)	Evapouration rate	no data available
	i)	Flammability (solid, gas)	no data available
	j)	Upper/lower flammability or explosive limits	no data available
	k)	Vapour pressure	no data available
	I)	Vapour density	no data available
	m)	Relative density	2,83 g/cm3
	n)	Water solubility	no data available
	o)	Partition coefficient: n- octanol/water	no data available
	p)	Auto-ignition temperature	no data available
	q)	Decomposition temperature	no data available
	r)	Viscosity	no data available
	s)	Explosive properties	no data available
	t)	Oxidizing properties	The substance or mixture is classified as oxidizing with the category 2.
).2	Otl	her safety information	

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 Avoid moisture.

10.5 Incompatible materials Organic materials, Strong reducing agents, Strong acids, Powdered metals

10.6 Hazardous decomposition products

Other decomposition products - no data available In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

LD50 Oral - mouse - 3.710 mg/kg

LD50 Intraperitoneal - mouse - 71 mg/kg

Skin corrosion/irritation no data available

Serious eye damage/eye irritation no data available

Respiratory or skin sensitisation 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 Inhalation - May cause respiratory irritation.

Specific target organ toxicity - repeated exposure no data available

Aspiration hazard

no data available

Additional Information

RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated., Symptoms of chronic bismuth toxicity in humans consists of decreased appetite, weakness, rheumatic pain, diarrhea, fever, metal line on the gums, foul breathe, gingivitis, and dermatitis. Jaundice and conjunctival hemorrhage are rare, but have been reported. Bismuth nephropathy with proteinuria may occur. The kidney is the site of highest concentration with the liver being considerably lower. Bismuth does pass into the amniotic fluid and into the fetus.

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

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

no data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. 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 numbe ADR/RID: ²	-	IMDG: 1477	IATA: 1477
14.2		shipping name NITRATES, INORGAN NITRATES, INORGAN Nitrates, inorganic, n.o	IIC, N.O.S.	
14.3	Transport I	nazard class(es)	IMDG: 5.1	IATA: 5.1
14.4	Packaging	group	IMDG: II	IATA: II
14.5		ntal hazards	IMDG Marine pollutant: no	IATA: no
14.6	Special pre	cautions for user ailable	·	

SECTION 15: Regulatory information

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

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

no data available

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3.

Eye Irrit.	Eye irritation
H272	May intensify fire; oxidiser.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
Ox. Sol.	Oxidizing solids
Skin Irrit.	Skin irritation
STOT SE	Specific target organ toxicity - single exposure

Full text of R-phrases referred to under sections 2 and 3

0	Oxidising
Xi	Irritant
R 8	Contact with combustible material may cause fire.
R36/37/38	Irritating to eyes, respiratory system and skin.

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. Pallav Chemicals & Solvents Pvt. Ltd and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.pallavchemicals.com for additional terms and conditions of sale.