



## SAFETY DATA SHEET

### 1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

Catalogue No. : B 11517  
Product Name : Bismuth nitrate

#### Manufacturer / supplier identification

Company : NICE Chemicals (P) Ltd. , Cochin , India  
Tel - 0484 2800212 , 2802755

Contact For Information : Tel . No. – 0484 2802536 Fax : 0484 2802483  
Emergency Telephone No. : 0484 2801583 Telefax No. : 0484 2802483

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### 2. COMPOSITION / INFORMATION ON INGREDIENTS

CAS-No : 10361-46-3  
Molecular formula :  $\text{Bi}_5\text{O}(\text{OH})_9(\text{NO}_3)_4$   
EC-No. : 233-792-3  
Molar mass : 1461.99

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### 3. HAZARDS IDENTIFICATION

According to the evaluative data available, a classification according to categories of danger as specified in Directive 67/548/EEC and laid down in the legislation of the country concerned is not required

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### 4. FIRST AID MEASURES

After skin contact : wash off with plenty of water .

After eye contact : rinse out with plenty of water with eyelids held open.



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After swallowing : make victim drink plenty of water. Induce vomiting.  
Summon doctor if feeling unwell  
After inhalation: fresh air.

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### **5. FIRE – FIGHTING MEASURES**

Suitable extinguishing media : In adaption to materials in the immediate neighbourhood.  
Special risks : Non combustible.

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### **6.ACCIDENTAL RELEASE MEASURES**

Procedures for cleaning / absorption :  
take up dry. Forward for disposal. Cleanup affected area.

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### **6. HANDLING AND STORAGE**

Handling : No further requirements.  
Storage : Tightly closed . dry, cool.

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### **8. EXPOSURE CONTROLS /PERSONAL PROTECTION**

Personal protective equipment

Respiratory protection : required when dusts are generated .  
Eye protection : required  
Hand protection : required  
Industrial hygiene : Change contaminated clothing . Wash  
hands after working with substance .

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

Form : solid  
Colour : white  
Odour : almost odourless  
Melting temperature : not available  
Boiling temperature : not available  
pHvalue  
at 50g/l H<sub>2</sub>O(25<sup>0</sup>C) : near 3.2  
Ignition temperature : Not available  
Flash point : not applicable  
Explosion limits lower : Not available  
Upper : Not available  
Relative vapour density : Not available  
Density (20<sup>0</sup> C ) : 4.95 g/cm<sup>3</sup>  
Bulk density : ~ 710 Kg/m<sup>3</sup>  
Solubility in  
water( 20<sup>0</sup>C) : almost insoluble  
ethanol (20<sup>0</sup>C) : almost insoluble

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### 10. STABILITY AND REACTIVITY

Conditions to be avoided : when heated strongly.

Substance to be avoided: no information available.

Hazardous decomposition products : ammonium compounds

Further information: sensitive to moisture, light sensitive.

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### 11. TOXICOLOGICAL INFORMATION

Acute toxicity : Quantitative data on the toxicity of this product are not available. The following applies to nitrites/ nitrates in general: methaemoglobinaemia after the uptake of large quantities. The product should be handled with the care usual when dealing with chemicals.

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### 12. ECOLOGICAL INFORMATION

Ecotoxic effects: The following applies to nitrates in general: may contribute to the eutrophication of water supplies. Hazard for drinking water. Fish: LC<sub>50</sub> >500 mg/l. Further ecologic data: do not allow to enter waters, waste waters or soil.

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### 13. DISPOSAL METHOD

Product : There are no uniform EC regulations for The disposal of chemicals or residues. Chemical residues generally count as special waste. The disposal of the latter is regulated in the EC member countries through corresponding laws and regulations . We recommend that you contact either the authorities in charge or approved waste disposal companies which will advise you on how to dispose of special waste .

Packaging : Disposal in compliance with official Regulations . Handle contaminated packaging as In the same way as the substance itself . If not officially specified differently , non – contaminated packaging may be treated like household waste or recycled

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## 14. TRANSPORT INFORMATION

Transport over land

ADR/RID and GGVS/GGVE : GGVS/GGVE class: 5.1 Number and letter:22 b

ADR/RID class : 5.1 Number and letter:22b

Name of material :

River transport AND/ADNR: Not examined

Sea transport IMDG : IMDG class:5.1 UN –No.:1477 Packaging group: II

Ems : 5.1-05 MFAG:235

Correct technical name:

Air transport

ICAO-TI and IATA-DGR: ICAO/IATA class: 5.1 UN/ID-No.: 1477

Packaging group: II

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## 15. REGULATORY INFORMATION

Labelling according to EC Directives

Symbol :

R- Phrases :

S-phrases :

Water pollution class : 2 (polluting)

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## 16. OTHER INFORMATION

Reason for alteration

The information contained herein is based on the present state of our knowledge. It characterises the product with regard to the appropriate safety precautions . It does not represent a guarantee of the properties of the product.

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