



# SAFETY DATA SHEET

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

Catalogue No. : B 10629  
Product Name : Barium hydroxide

### 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 : 12230-71-6  
Ec-Index No. : 056-004-00-8  
EC-No. : 241-234-5  
Molecular Formula :  $H_2 BaO_2 \cdot H_2O$   
Molar mass : 315.48

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3. HAZARDS IDENTIFICATION : Harmful by inhalation and if swallowed.

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## 4. FIRST AID MEASURES

After inhalation : fresh air. consult doctor if feeling unwell

After skin contact: wash off with plenty of water .Remove contaminated clothing

After eye contact: rinse out with plenty of water if pain persists consult an eye specialist

After swallowing: Make victim drink plenty of water. avoid vomiting . Do not attempt to neutralise .  
consult doctor if feeling unwell.

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### 5. FIRE – FIGHTING MEASURES

Suitable extinguishing media : In adaption to materials  
available in immediate neighbourhood

Special risks : Non combustible. Ambient fire may liberate hazardous vapours.

Special protective equipment for fire fighting: Do not stay in dangerous zone without  
self contained breathing apparatus

Other information: Prevent fire fighting water from entering surface water or ground  
water.

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### 6. ACCIDENTAL RELEASE MEASURES

Procedures for cleaning / absorption :

Take up dry. Forward for disposal . Clean up affected area.

Person – related precautionary measures :

Avoid generation of dusts. Do not inhale dusts.

Environmental protection measures: Do not allow to enter  
sewage system.

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### 7. HANDLING AND STORAGE

Handling : No further requirements .

Storage : Tightly closed . Dry .

Storage temperature: no restrictions.

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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

Protective clothing should be selected for the working place depending on concentration and quantity of the hazardous substance handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier

Industrial hygiene : Change contaminated clothing . Application of skin protective barrier cream recommended . Wash hands after working with substance .

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Form : solid  
Colour : white  
Odour : odourless  
PH value : ~ 12.5  
At 50 g/l H<sub>2</sub>O (20<sup>0</sup>C )  
Melting temperature : 78 <sup>0</sup>C  
Boiling temperature : Not available  
Ignition temperature : Not available  
Flash point : Not available  
Explosion limits lower: Not available  
Upper : Not available  
Relative vapour density: Not available  
Density (20<sup>0</sup>C ) : 2.18 g/ cm <sup>3</sup>  
Solubility in water ( 20<sup>0</sup>C) : 66 g/l

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### 10. STABILITY AND REACTIVITY

Conditions to be avoided : no information available

Substance to be avoided : acids, hydrogen sulfide

Hazardous decomposition products : no information available

Further information : Unsuitable working materials: light metals.

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### 11. TOXICOLOGICAL INFORMATION

Acute toxicity quantitative data on the toxicity of this product are not available.

Further toxicological information

After inhalation: Irritations of the mucous membranes, coughing and dyspnoea.

After skin contact: burns.

After eye contact: burns. Risk of blindness!

After swallowing: nausea, vomiting, dizziness, pain, diarrhoea. Burns in oesophagus and stomach.

Risk of perforation in the oesophagus and stomach.

Systemic effects: after absorption: cardiac dysrhythmia, CNS disorders, collapse.

Further data: The product should be handled with the care usual when dealing with chemicals

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### 12. ECOLOGICAL INFORMATION

Ecotoxic effects:

Quantitative data on the ecological effect of this product are not available.

Biologic effects:

Toxic for aquatic organisms . Hazard for drinking water supplies. Harmful effect due to pH shift.





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Name of material : BARIUM HYDROXIDE  
River transport AND/ADNR: Not examined  
Sea transport IMDG :  
IMDG class:8 UN -No. :2923 Packaging group: II  
Ems : 8-15 MFAG :760  
Correct technical name: BARIUM HYDROXIDE  
Air transport  
ICAO-TI and IATA-DGR:  
ICAO/IATA class: 8/6.1 UN/ID-No.: 2923 Packaging group: II  
Correct technical name: BARIUM HYDROXIDE

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## 15. REGULATORY INFORMATION

Labelling according to EC Directives

Symbol : C Corrosive  
R- Phrases : 20/22-34 Harmful if swallowed and by inhalation. Causes burns.  
S-phrases :26-36/3739-45 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves and eye/ face protection. In case of accident or if you feel unwell, seek medical advice immediately  
Water pollution class : 1 (slightly polluting substance)

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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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