



SAFETY DATA SHEET

1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

Catalogue No. : B 10229
Product Name : BARIUM CARBONATE

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

2. COMPOSITION / INFORMATION ON INGREDIENTS

CAS-No : 513-77-9
EC Index No. : 056-003-00-2
Molar mass : 197.35
Molecular Formula : CBaO_3
EC –No. : 208-167-3

3. HAZARDS IDENTIFICATION : Harmful is swallowed.

4. FIRST AID MEASURES

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

After eye contact : rinse out with plenty of water with the eyelid held wide open

After inhalation : fresh air.

After swallowing : make victim drink plenty of water, induce vomiting. Summon doctor.

Subsequently administer: Sodium sulfate(1 table spoon/1/4 l water).

If breathing stops : immediately apply mechanical ventilation,if
Necessary also oxygen.

If victim is unconscious : lateral recumbent position.



SAFETY DATA SHEET

Catalogue No. : **B 10229**
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5. FIRE – FIGHTING MEASURES

Suitable extinguishing media : .

In adaption to materials stored in the immediate neighbourhood.

Special risks : Development of hazardous combustion gases or vapours possible in the event of fire.

Other information : Non-combustible.

6. ACCIDENTAL RELEASE MEASURES

Person related precautionary measures:

Avoid generation of dusts: do not inhale dusts. Avoid substance contact.

Environmental –protection measures:

Do not allow to enter sewerage system.

Procedures for cleaning/absorption:

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

7. HANDLING AND STORAGE

Handling : No further requirements.

Storage : tightly closed . Dry.

Storage temperature : no restrictions

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal protective equipment

Respiratory protection : Required when dusts are generated.

Eye protection : Required

Hand protection : Required



SAFETY DATA SHEET

Catalogue No. : **B 10229**
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Industrial hygiene : Change contaminated clothing. Application skin-protective barrier cream recommended. Wash hands and face after working with substance.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	:	Solid
Colour	:	White
Odour	:	Odourless
PH value	:	Not available
Melting temperature	:	>1450° C (decomposition)
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° C)	:	4.43 g/cm ³
Bulk density	:	350 kg/m ³
Solubility in water(20° C)	:	0.02 g/l
Thermal decomposition	:	above melting point

10. STABILITY AND REACTIVITY

Conditions to be avoided : None .
Substance to be avoided : Strong acids.
Hazardous decomposition products : Carbon dioxide.



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Catalogue No. : **B 10229**
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11. TOXICOLOGICAL INFORMATION

Acute toxicity : LD₅₀ (oral, rat): 418 mg/kg.

TDLo (oral, human): 11 mg/kg.

Further toxicological information:

When dusts are generated: Irritation of: skin, eyes.

After swallowing : Secondary products cause: CNS disorders,
Cardiovascular disorders, diarrhoea, spasms.

Additional notes:

The following applies to soluble barium compounds in general:
After swallowing : mucosal irritation, nausea, salivation, vomiting,
dizziness, pain, colics, and diarrhoea.

Systemic effects include: cardiocdysrhythmias, bradycardia (subdued
cardiac activity), rise in blood pressure, shock and circulatory collapse
as well as muscular rigidity.

Further data: Further hazardous properties cannot be excluded the
product should be handled with the care usual when dealing with
chemicals.

12. ECOLOGICAL INFORMATION

Ecotoxic effects : Biological effects

Toxic for aquatic organisms. Hazard for drinking water supplies.

Further ecologic data: The following applies to barium compounds: biological effects: fish:
Lethal as from 158 mg/l: Salmo lethal as from 158 mg/ l(as BaCl₂);
L.idus LC50: 870 mg/l(as BaCl₂); barium ions toxic for aquatic
organisms: Sc. Quadricauda toxic as from 34 mg/l; crustaceans:
Toxic as from 29 mg/l; hazard for drinking water. Do not allow to
enter waters, waste water, or soil.



SAFETY DATA SHEET

Catalogue No. : **B 10229**
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13. DISPOSAL METHOD

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.

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.

14. TRANSPORT INFORMATION

Transport over land ADR/RID and GGVS/GGVE

GGVS/GGVE class : 6.1 Number and letter : 60c
ADR/RID class : 6.1 Number and letter : 60c
Name of materia : 1564 BARIUMVERBINUN, N.A.G.
(BARIUM CARBONATE)

river transport AND/ADNR : Not examined

Sea transport IMDG

IMDG class : 6.1 UN-No.: 1564 Packaging group: 111
EMS : 6.1-04 MFAG : 120

Correct technical name : BARIUM COMPOUND, N.O.S.(BARIUM CARBONATE)

Air transport ICAO-TI and IATA-DGR

ICAO/IATA class: 6.1 UN/ID-No.: 1564 Packaging group : 111

Correct technical name : BARIUM COMPOUND,N.O.S.



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15. REGULATORY INFORMATION

Labelling according to EC Directives

Symbol	:	Xn	Harmful
R- Phrases	:	22	Harmful if swallowed.
S-phrases	:	24/25	Avoide contact with skin and eyes.

Water pollution class : 0 (generally nonpolluting substance)

16. OTHER INFORMATION

Reason for alteration :

General update.

Change in transport classification.

Change in the chapter on ecology.

The information contained here in is based on the present state of our knowledge.

It characterizes the product with regard to the appropriate safety precautions.

It does not represent a guarantee of the properties of the product.
