

### Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 10/29/2025 Version: 1.0

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form : Substance

: BARIUM SULPHATE IP Trade name

EC-No. : 231-784-4 CAS-No. : 7727-43-7 Product code : IB004

Type of product : Inorganic compound

Formula : BaSO4

Chemical structure

: Artificial barite; Enamel white; Permanent white Synonyms

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### Relevant identified uses

Use of the substance/mixture : Laboratory chemicals

Manufacture of substances

#### 1.3. Details of the supplier of the safety data sheet

LOBA CHEMIE PVT.LTD.

107 Wode House Road, Jehangir Villa, Colaba

400005 Mumbai

**INDIA** 

T +91 22 6663 6663, F +91 22 6663 6699

info@lobachemie.com, www.lobachemie.com

#### 1.4. Emergency telephone number

: + 91 22 6663 6663 (9:00am - 6:00 pm) **Emergency number** 

### **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

### Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

### 2.2. Label elements

### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

No labelling applicable

### 2.3. Other hazards

No additional information available

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### **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

Substance type : Mono-constituent

Name	Product identifier	%
BARIUM SULPHATE	CAS-No.: 7727-43-7 EC-No.: 231-784-4	100

### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

First-aid measures general : If you feel unwell, seek medical advice.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water.

First-aid measures after eye contact : Rinse eyes with water as a precaution.

First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

Self protection of the first-aider : First aid workers will be equipped with suitable personal protective equipment.

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation : None under normal conditions. Dust of the product, if present, may cause respiratory

irritation after excessive inhalation exposure.

Symptoms/effects after skin contact : None under normal conditions. Dust may cause irritation in skin folds or by contact in

combination with tight clothing.

Symptoms/effects after eye contact : None under normal conditions. Dust from this product may cause eye irritation.

Symptoms/effects after ingestion : None under normal conditions.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

### **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam.
Unsuitable extinguishing media : Do not use a heavy water stream.

### 5.2. Special hazards arising from the substance or mixture

Fire hazard : No fire hazard.

Explosion hazard : No direct explosion hazard. Hazardous decomposition products in case of fire : Toxic fumes may be released.

### 5.3. Advice for firefighters

Firefighting instructions : Fight fire from safe distance and protected location. Do not enter fire area without proper

protective equipment, including respiratory protection.

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained

breathing apparatus. Complete protective clothing.

### **SECTION 6: Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage.

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#### For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.

Emergency procedures : Ventilate spillage area.

For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

Emergency procedures : Evacuate unnecessary personnel.

#### 6.2. Environmental precautions

Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

For containment : Using a clean shovel, put the material in a dry container and cover without compressing it.

Methods for cleaning up : Mechanically recover the product.

Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For further information refer to section 13.

### **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

Additional hazards when processed : Not expected to present a significant hazard under anticipated conditions of normal use.

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the

product

product

### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Keep in a cool, well-ventilated place away from heat.

Storage conditions : Keep cool. Protect from sunlight.

Packaging materials : Store always product in container of same material as original container.

**Switzerland** 

Storage class (LK) : NG - Non-hazardous

### 7.3. Specific end use(s)

No additional information available

### **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

No additional information available

### 8.2. Exposure controls

#### **Appropriate engineering controls**

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

#### Personal protection equipment

#### Personal protective equipment:

Wear recommended personal protective equipment.

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#### Personal protective equipment symbol(s):







#### Eye and face protection

#### Eye protection:

Chemical goggles or safety glasses

#### Skin protection

#### Skin and body protection:

Wear a mask

#### Hand protection:

Protective gloves

### **Respiratory protection**

#### Respiratory protection:

Wear appropriate mask

#### **Environmental exposure controls**

#### **Environmental exposure controls:**

Avoid release to the environment.

# **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

Physical state : Solid Colour : White. Appearance : Fine powder. Molecular mass : 233.39 g/mol Odour : Odourless. : Not available Odour threshold : 1580 °C Melting point Freezing point : Not applicable

Boiling point : 1600 °C (decomposes)
Flammability : Non flammable.
Lower explosion limit : Not applicable
Upper explosion limit : Not applicable
Flash point : Not applicable
Auto-ignition temperature : Not applicable
Decomposition temperature : Not available

pH : ≈7

pH solution concentration : 5 Suspension in water Viscosity, kinematic : Not applicable

Solubility : Water: Insoluble in water

Partition coefficient n-octanol/water (Log Kow) : Not available Vapour pressure : Not available Vapour pressure at 50°C : Not available Density : 4.5 g/cm³ Relative density : Not available Relative vapour density at 20°C : Not applicable Particle size : Not available

### 9.2. Other information

No additional information available

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### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

#### 10.5. Incompatible materials

No additional information available

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### **SECTION 11: Toxicological information**

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Germ cell mutagenicity : Not classified Carcinogenicity : Not classified Reproductive toxicity : Not classified STOT-single exposure : Not classified STOT-repeated exposure : Not classified Aspiration hazard : Not classified

### **BARIUM SULPHATE IP (7727-43-7)**

Viscosity, kinematic Not applicable

#### 11.2. Information on other hazards

No additional information available

### **SECTION 12: Ecological information**

### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse

effects in the environment.
Not classified

Hazardous to the aquatic environment, short-term

(acute)

Hazardous to the aquatic environment, long-term

(chronic)

: Not classified

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### 12.2. Persistence and degradability

### **BARIUM SULPHATE IP (7727-43-7)**

Persistence and degradability Rapidly degradable

#### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Endocrine disrupting properties

No additional information available

#### 12.7. Other adverse effects

No additional information available

### **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

Regional waste regulation : Disposal must be done according to official regulations.

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

Sewage disposal recommendations : Disposal must be done according to official regulations.

Product/Packaging disposal recommendations : Comply with applicable regulations for solid waste disposal. Disposal must be done

according to official regulations.

Additional information : Do not re-use empty containers.

### **SECTION 14: Transport information**

In accordance with ADR / IMDG / IATA / ADN / RID

### 14.1. UN number or ID number

Not regulated for transport

### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : Not regulated Proper Shipping Name (IMDG) : Not regulated Proper Shipping Name (IATA) : Not regulated Proper Shipping Name (ADN) : Not regulated Proper Shipping Name (RID) : Not regulated

### 14.3. Transport hazard class(es)

**ADR** 

Transport hazard class(es) (ADR) : Not regulated

**IMDG** 

Transport hazard class(es) (IMDG) : Not regulated

**IATA** 

Transport hazard class(es) (IATA) : Not regulated

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**ADN** 

Transport hazard class(es) (ADN) : Not regulated

RID

Transport hazard class(es) (RID) : Not regulated

### 14.4. Packing group

Packing group (ADR) : Not regulated Packing group (IMDG) : Not regulated Packing group (IATA) : Not regulated Packing group (ADN) : Not regulated Packing group (RID) : Not regulated

### 14.5. Environmental hazards

Other information : No supplementary information available

#### 14.6. Special precautions for user

#### **Overland transport**

Not regulated

#### Transport by sea

Not regulated

#### Air transport

Not regulated

#### **Inland waterway transport**

Not regulated

#### Rail transport

Not regulated

### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

### **SECTION 15: Regulatory information**

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

#### **EU-Regulations**

#### **REACH Annex XVII (Restriction List)**

Not listed on REACH Annex XVII

#### **REACH Annex XIV (Authorisation List)**

Not listed on REACH Annex XIV (Authorisation List)

#### **REACH Candidate List (SVHC)**

Not listed on the REACH Candidate List

### **PIC Regulation (Prior Informed Consent)**

Not listed on the PIC list (Regulation EU 649/2012)

### **POP Regulation (Persistent Organic Pollutants)**

Not listed on the POP list (Regulation EU 2019/1021)

### Ozone Regulation (2024/590)

Not listed on the Ozone Depletion list (Regulation EU 2024/590)

#### Council Regulation (EC) for the control of dual-use items

Not listed on the COUNCIL REGULATION (EC) of dual-use items.

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### **Explosives Precursors Regulation (EU 2019/1148)**

Not listed on the Explosives Precursors list (EU)

### **Drug Precursors Regulation (EC 273/2004)**

Not listed on the Drug Precursors list (EU)

**National regulations** 

#### Germany

Employment restrictions : Observe restrictions according Act on the Protection of Working Mothers (MuSchG).

Observe restrictions according Act on the Protection of Young People in Employment

(JArbSchG).

Water hazard class (WGK) : WGK nwg, Non-hazardous to water (Not classified according to Regulation Governing

Systems for Handling Substances Hazardous to Waters (AwSV); ID No. 308).

Major Accidents Ordinance (12. BImSchV) : Is listed in the Major Accidents Ordinance (12. BImSchV)

Major Accidents Ordinance (12. BlmSchV)				
Number	Code	Title	Lower-tier	Upper-tier
1.1.1			5,000 kg	20,000 kg
1.1.2			50,000 kg	200,000 kg
1.1.3			50,000 kg	200,000 kg
1.2.1.1			10,000 kg	50,000 kg
1.2.1.2			50,000 kg	200,000 kg
1.2.2			10,000 kg	50,000 kg
1.2.3.1			150,000 kg	500,000 kg
1.2.3.2			5,000,000 kg	50,000,000 kg
1.2.4			50,000 kg	200,000 kg
1.2.5.1			10,000 kg	50,000 kg
1.2.5.2			50,000 kg	200,000 kg
1.2.5.3			5,000,000 kg	50,000,000 kg
1.2.6.1			10,000 kg	50,000 kg
1.2.6.2			50,000 kg	200,000 kg
1.2.7			50,000 kg	200,000 kg
1.2.8			50,000 kg	200,000 kg
1.3.1			100,000 kg	200,000 kg
1.3.2			200,000 kg	500,000 kg
1.4.1			100,000 kg	500,000 kg
1.4.2			100,000 kg	500,000 kg
1.4.3			50,000 kg	200,000 kg
2.1			50,000 kg	200,000 kg
2.11			5,000 kg	50,000 kg
2.3.1			2,500,000 kg	25,000,000 kg
2.3.2			2,500,000 kg	25,000,000 kg
2.3.3			2,500,000 kg	25,000,000 kg
2.3.4			2,500,000 kg	25,000,000 kg
2.3.5			2,500,000 kg	25,000,000 kg

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Major Accidents Ordinance (12. BlmSchV)				
Number	Code	Title	Lower-tier	Upper-tier
2.30			200,000 kg	500,000 kg
2.31				1,000 kg
2.35				1 kg
2.43.3			10,000 kg	100,000 kg
2.7			1,000 kg	2,000 kg
2.8				100 kg

#### **Netherlands**

SZW-lijst van kankerverwekkende stoffen

SZW-lijst van mutagene stoffen

SZW-lijst van reprotoxische stoffen – Borstvoeding

SZW-lijst van reprotoxische stoffen -

Vruchtbaarheid

SZW-lijst van reprotoxische stoffen - Ontwikkeling

: The substance is not listed

The substance is not listed : The substance is not listed

: The substance is not listed

: The substance is not listed

#### **Poland**

Polish National Regulations

: Act of 25 February 2011 on chemical substances and their mixtures (J. o L. No. 63, item 322 as amended; consolidated text J. o L. 2019, item 1225).

Act of 14 December 2012 on waste (J. o L. 2013, item 322 as amended; consolidated text J. o L. 2020, item 797).

The announcement of Marshal of the Seim of the Republic of Poland dated 19 October 2016 concerning the consolidated text announcement of the decree on the management of packaging and packaging waste (J. o L. 2016, item 1863 as amended).

Decree of the Minister of Environment of 14 December 2014 on the catalogue of waste (J. o L. 2014, item 1923).

Act of 19 August 2011 on the Carriage of Dangerous Goods (J. o L. 2011 No. 227, item 1367 as amended; consolidated text J. o L. 2020, item 154).

Regulation of the Minister of Family, Labour and Social Policy of 12 June 2018 on the highest permissible concentration and intensity of noxious agents for health at work environment (J. o L. item 1286 as amended).

The announcement of Minister of Health dated 9 September 2016 concerning the consolidated text announcement of the decree of the Minister of Health of 30 December 2004 on health and safety at work related to exposure to chemical agents at work (J. o L. of 16 September 2016, item 1488)

Regulation of the Minister of Health of 2 February 2011 on tests and measurements of the noxious agents for health at work environment (J. o L. No. 33, item 166 as amended). Regulation of the Minister of Environment of 9 December 2003 on particularly hazardous substances to the environment (J. o L. No. 217, item 2141).

ADR Agreement: Government Statement of 13 March 2023 on the entry into force of amendments to Annexes A and B to the Agreement concerning the International Carriage of Dangerous Goods by Road (ADR), signed in Geneva on 30 September 1957 (J. o. L. 2023, item 891)

### **Spain**

Royal Decree 665/1997 : Is not subject to the Royal Decree 665/1997

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

### **SECTION 16: Other information**

Abbreviations and acronyms:	
ACGIH	American Conference of Government Industrial Hygienists
ADN European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways	

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Acute Toxicity Estimate  BCF Bioconcentration factor  BLV Biological limit value  BOD Biochemical oxygen demand (BOD)  CAS-No. Chemical Abstract Service number  CLP Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008  COD Chemical Abstract Service number  CLP Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008  COD Chemical oxygen demand (COD)  CSA Chemical safety assessment  DMEL Derived-No Effect Level  DNEL Derived-No Effect Level  EC-No. European Community number  ECSO Median effective concentration  ED Endocrine disruptor  EN European Standard  EWC European Waste catalogue  International Algency for Research on Cancer  International Algency for Research on Cancer  International Almatima Dangerous Goods  LCSO Median lethal concentration  IMDG International Maritima Dangerous Goods  LCSO Median lethal concentration  IMDG International Maritima Concentration  LDSO Median lethal concentration  LDSO Median lethal concentration  MAK maximum workplace concentration  NOAEC No-Observed Adverse Effect Level  NOAEC No-Observed Adverse Effect Level  NOAEC No-Observed Adverse Effect Concentration  NOAEC No-Observed Adverse Effect Concentration  NOS. Not Otherwise Specified  OSCO Organisation for Economic Co-operation and Development  OEL Occupational Exposure Limit  PBT Persistent Bioaccumulative Toxic  PNEC Pedicted No-Effect Concentration  PRE Personal protection equipment  RID Regulations concerning the International Carriage of Dangerous Goods by Rail  SSS Safety Data Sheet  STP Sewage treatment plant	Abbreviations and acronyms:		
BLV Biological limit value BDD Biochemical oxygen demand (BDD) CAS-No. Chemical Abstract Service number CLP Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008 CDD Chemical oxygen demand (COD) CSA Chemical safety assessment DMEL Derived Minimal Effect level DMEL Derived Minimal Effect level DMEL Derived-No Effect Level EC-No. European Community number ECSO Median effective concentration ED Endocrine disruptor EN European Standard EWC European waste catalogue International Agency for Research on Cancer IATA International Agency for Research on Cancer IATA International Agency for Research on Cancer IATA International Maritimo Dangerous Goods LCSO Median lethal concentration LDSO Median lethal concentration LDSO Median lethal dose LOAEL Lowest Observed Adverse Effect Level Log Kow Partition coefficient n-octanol/water (Log Kow) Log Pow Partition coefficient n-octanol/water (Log Pow) MAK maximum workplace concentration NOAEL No-Observed Adverse Effect Level NOAEL No-Observed Adverse Effect Concentration PBT Persistent Bioaccumulative Toxic PREC Pedicted No-Effect Concentration PBT Personal protoction equipment RD Regulations concerning the International Carriage of Dangerous Goods by Rail SSS Safety Data Sheet	ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	
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DMEL Derived Minimal Effect level  DNEL Derived-No Effect Level  EC-No. European Community number  EC50 Median effective concentration  ED Endocrine disruptor  EN European standard  EUC European waste catalogue  International Agency for Research on Cancer  IATA International Agency for Research on Cancer  IATA International Maritime Dangerous Goods  LC50 Median lethal concentration  ILD50 Median lethal concentration  LD50 Median lethal dose  LCAEL Lowset Observed Adverse Effect Level  Log Kow Partition coefficient n-octanol/water (Log Kow)  LOg Pow Partition coefficient n-octanol/water (Log Pow)  MAK maximum workplace concentration  NOAEC No-Observed Adverse Effect Level  NOEC No-Observed Adverse Effect Level  NOEC No-Observed Effect Concentration  NO.S. Not Otherwise Specified  OECD Organisation for Economic Co-operation and Development  OEL Occupational Exposure Limit  OSHA Occupational Exposure Limit  PPE Personal protection equipment  RID Regulations concerning the International Carriage of Dangerous Goods by Rail  SDS Safety Data Sheet  STP Sewage treatment plant	COD	Chemical oxygen demand (COD)	
DNEL Derived-No Effect Level  EC-No. European Community number  EC50 Median effective concentration  ED Endocrine disruptor  EN European Standard  EWC European waste catalogue  International Agency for Research on Cancer  International Agency for Research on Cancer  International Air Transport Association  Median lethal concentration  Median lethal concentration  Median lethal concentration  Median lethal concentration  International Adverse Effect Level  Logs Kow Partition coefficient n-octanol/water (Log Kow)  Log Pow Partition coefficient n-octanol/water (Log Pow)  MAK maximum workplace concentration  NOAEC No-Observed Adverse Effect Concentration  NOAEL No-Observed Adverse Effect Level  NOCC No-Observed Effect Concentration  NOAEL No-Observed Effect Concentration  NO.S. Not Otherwise Specified  OCCUPATIONAL Occupational Exposure Limit  OSHA Occupational Exposure Limit  PRET Persistent Bioaccumulative Toxic  PNEC Predicted No-Effect Concentration  PPE Personal protection equipment  RID Regulations concerning the International Cerriage of Dangerous Goods by Rail  SDS Safety Data Sheet  STP Sewage treatment plant	CSA	Chemical safety assessment	
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RID Regulations concerning the International Carriage of Dangerous Goods by Rail  SDS Safety Data Sheet  STP Sewage treatment plant	PNEC	Predicted No-Effect Concentration	
SDS Safety Data Sheet STP Sewage treatment plant	PPE	Personal protection equipment	
STP Sewage treatment plant	RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
	SDS	Safety Data Sheet	
TF Technical function	STP	Sewage treatment plant	
	TF	Technical function	

# Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Abbreviations and acronyms:	
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
TWA	Time Weighted Average
VOC	Volatile Organic Compounds
vPvB	Very Persistent and Very Bioaccumulative
UFI	Unique Formula Identifier

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.