



SAFETY DATA SHEET
BARIUM SULPHATE
According to Regulation (EU) No 2015/830

Composition Comments

- The data shown are in accordance with the latest EC Directives.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General information

Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

Inhalation

Move person into fresh air and keep at rest. Rinse nose and mouth with water.
Get medical attention if any discomfort continues.

Ingestion

Immediately rinse mouth and provide fresh air. Get medical attention if any discomfort continues.

Skin contact

Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention promptly if symptoms occur after washing.

Eye contact

Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.

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

Inhalation : Irritation of nose, throat and airway. Coughing. Mechanical irritation.
Ingestion : No specific symptoms noted.
Skin contact : Prolonged skin contact may cause redness and irritation.
Eye contact : Prolonged contact may cause redness and/or tearing. Mechanical irritation.

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

No specific treatment. Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

This product is not flammable. Use fire-extinguishing media appropriate for surrounding materials.

5.2. Special hazards arising from the substance or mixture

Specific hazards

In case of fire, toxic gases may be formed.

5.3. Advice for firefighters

Special Fire Fighting Procedures

Avoid breathing fire vapours. Cool containers exposed to flames with water until well after the fire is out. Move container from fire area if it can be done without risk. Keep run-off water out of sewers and water sources. Dike for water control.

Protective equipment for fire-fighters

Use air-supplied respirator during fire fighting. Face mask, protective gloves and safety helmet.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective clothing as described in Section 8 of this safety data sheet. Avoid inhalation of dust. Avoid dust formation. In presence of powdery product, use full-face protective mask with filter. Avoid contact with skin and eyes. Ensure adequate ventilation in closed spaces.



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6.2. Environmental precautions

Do not discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

Avoid generation and spreading of dust. Shovel into dry containers. Cover and move the containers. Flush the area with water.

6.4. Reference to other sections

For personal protection, see section 8.
See section 11 for additional information on health hazards.
For waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Avoid handling which leads to dust formation. Avoid contact with skin and eyes.
Observe occupational exposure limits and minimise the risk of inhalation of dust. Use mechanical ventilation in case of handling which causes formation of dust. Observe good chemical hygiene practices. Avoid inhalation of dust.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed original container in a dry and cool place.
Keep away from food, drink and animal feeding stuffs.

7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Name	STD	TWA - 8 Hrs	STEL - 15 Min	Notes
Barium sulfate	WEL	10 mg/m ³ inh. dust 4 mg/m ³ resp. dust	30 mg/m ³ inh. dust 12 mg/m ³ resp. dust	UK
	OSHA	15 mg/m ³ total dust 5 mg/m ³ resp. dust	---	USA

WEL = Workplace Exposure Limit.

8.2. Exposure controls

Protective equipment



Process conditions

Provide eyewash, quick drench.

Engineering measures

Provide adequate ventilation. Observe Occupational Exposure Limits and minimise the risk of inhalation of dusts.

Respiratory equipment

In case of inadequate ventilation or risk of inhalation of dust, use suitable respiratory equipment with particle filter (type P2).

Hand protection

Use suitable protective gloves if risk of skin contact. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material. Before removing gloves clean them with soap and water.



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Eye protection

Wear dust resistant safety goggles where there is danger of eye contact.

Hygiene measures

Wash hands at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Wash promptly with soap & water if skin becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

Skin protection

Protection suit must be worn.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	Powder
Colour	White. Yellow. Gray.
Odour	Odourless.
Solubility	Slightly soluble in water (<0,1% in water)
Initial boiling point and boiling range	Not applicable.
Melting Point	1600 °C
pH Value	8,5 - 10
Flash point	Not applicable.
Partition Coefficient (N-octanol/water)	No data available.

9.2. Other information

No data available.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No specific reactivity hazards associated with this product.

10.2. Chemical stability

Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions

Will not polymerise.

10.4. Conditions to avoid

No data available.

10.5. Incompatible materials

No data available.

10.6. Hazardous decomposition products

Fire creates: Carbon monoxide (CO). Carbon dioxide (CO₂).

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Serious eye damage/irritation

Particles in the eyes may cause irritation and smarting.



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Skin irritation/corrosive

Powder may irritate skin.

Respiratory or skin sensitisation:

Skin sensitisation: No data available.

Germ cell mutagenicity

Genotoxicity - In Vitro/ In Vivo

No data available.

Carcinogenicity

No data available.

Reproductive Toxicity – Fertility/ Development

No data available.

Inhalation

Dust in high concentrations may irritate the respiratory system.

Ingestion

May cause discomfort if swallowed. Gastrointestinal symptoms, including upset stomach.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Not regarded as dangerous for the environment.

12.2. Persistence and degradability

The product is not biodegradable.

12.3. Bioaccumulative potential

There are no data on the bioaccumulating.

12.4. Mobility in soil

The product is insoluble in water and will sediment in water systems.

12.5. Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB substances.

12.6. Other adverse effects

No data available.

SECTION 13: DISPOSAL CONSIDERATIONS

Genel Bilgiler

When handling waste, consideration should be made to the safety precautions applying to handling of the product.

13.1. Waste treatment methods

Dispose empty containers, rubbish and waste in accordance with local authority requirements. Environmental manager must be informed of all major spillages. Contact specialist disposal companies. Please recycle empty pack.

SECTION 14: TRANSPORT INFORMATION

General

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.



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14.3. Transport hazard class(es)

Not applicable.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant No.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

SECTION 15: REGULATORY INFORMATION

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

Guidance Notes

Workplace Exposure Limits EH40. Introduction to Local Exhaust Ventilation HS(G)37. CHIP for everyone HSG(108).

EU Legislation

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments. System of specific information relating to Dangerous Preparations. 2001/58/EC.

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

Revision Comments

Revised according to current regulations.

Issued By

Bülent Özdemir / **CRAD** Çevre Risk Analiz Denetim ve Eğitim Hizm. Ltd.Şti.
www.crad.com.tr bulent@crad.com.tr Tel: +90 216 335 4600

Issued Note

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ABBREVIATIONS

IMDG	International Maritime Dangerous Goods
IATA	International Air Transport Association
ADR/RID	Agreement on Dangerous Goods by Road/ Regulations concerning the Intl Transport of Dangerous Goods by Rail
OSHA	Occupational Safety and Health Administration
EC	European Commission
CAS	Chemical Abstracts Service
STEL	Short Term Exposure Limit
TWA	Time-weighted average
WEL	Workplace Exposure Limits

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