



BARIUM STEARATE AV - US

Version 1.1

Revision Date 12.12.2017

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name : **BARIUM STEARATE AV - US**

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

Use of the Substance/Mixture : Manufacture of plastics products
Polymer additive
Stabilizer

1.3 Details of the supplier of the safety data sheet

Company : Baerlocher Production USA LLC
5890 Highland Ridge Drive
45232 Cincinnati
Telephone : Day 330-602-1528, 330-602-1531 or -1530
Night 513-207-1620 or 513-604-2327
E-mail address : Hotline.PS@baerlocher.com
Responsible/issuing person : Product Safety Department

1.4 Emergency telephone number (0 - 24 h)

Tel.: 800-424-9300 USA or 703-527-3887

2. Hazards identification

2.1 Classification of the substance or mixture

Acute toxicity, Category 4	H332: Harmful if inhaled.
Acute toxicity, Category 4	H302: Harmful if swallowed.
Combustible dust	May form combustible dust concentrations in air.

2.2 Label elements

Hazard pictograms :



Signal word : Warning

Hazard statements : H302 + H332 Harmful if swallowed or if inhaled
May form combustible dust concentrations in air.



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Precautionary statements	Prevention:	
	P261	Avoid breathing dust/ fume/ gas/ mist/ vapors/spray.
	P264	Wash skin thoroughly after handling.
	P270	Do not eat, drink or smoke when using this product.
	P271	Use only outdoors or in a well-ventilated area.
	Response:	
	P312	Call a POISON CENTER or doctor/ physician if you feel unwell.
	Disposal:	
	P501	Dispose of contents/ container to an approved waste disposal plant.

3. Composition/information on ingredients

3.1 Substances

Common names	:	Barium stearate	CAS# 6865-35-6	≤ 100%
Chemical name	:	Fatty acids, C16-C18, barium salts		

4. First aid measures

4.1 Description of first aid measures

If inhaled	:	Move to fresh air.
In case of skin contact	:	Wash off with soap and plenty of water. Take off contaminated clothing and shoes immediately.
In case of eye contact	:	Rinse with plenty of water.
If swallowed	:	Clean mouth with water and drink afterwards plenty of water. Call a physician immediately. Show this safety data sheet to the doctor in attendance.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms	:	No information available.
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4.3 Indication of any immediate medical attention and special treatment needed

Treatment	:	Treat symptomatically.
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5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Water spray
Foam
Carbon dioxide (CO₂)
Dry chemical
Sand

Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Smoke and fumes, toxic.

5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Remove all sources of ignition.
Avoid dust formation.
Provide adequate ventilation.
Use personal protective equipment (see Section 8).

6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system.
Avoid subsoil penetration.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Use mechanical handling equipment.
Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For personal protection see section 8.



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7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Take precautionary measures against static discharges.
Keep away from sources of ignition - No smoking.
Avoid formation and buildup of dust.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store at room temperature in the original container.
Keep in a dry place.

8. Exposure controls/personal protection

8.1 Control parameters

Components with workplace control parameters

Components	CAS-No.	Basis	Value	Note
Barium compounds (as Ba)	7440-39-3	ACGIH TLV	0.5 mg/m ³	TWA
		OSHA PEL	0.5 mg/m ³	TWA
		NIOSH REL	0.5 mg/m ³	TWA

8.2 Exposure controls

Engineering measures

Local exhaust

Personal protective equipment

Respiratory protection : In case of dust or aerosol formation use respirator with an approved filter.
Half mask with a particle filter P2 (EN 143).

Hand protection : protective gloves acc. to EN 374, e.g. neoprene

Eye protection : Safety glasses

Skin and body protection : Long sleeved clothing

Hygiene measures : When using do not eat or drink.
Do not smoke.
Wash hands before breaks and at the end of workday.
Shower or bathe at the end of working.
Keep working clothes separately.

Protective measures : Static dissipative shoes are recommended for use in environments that may not have sufficient ventilation and engineering controls to prevent incidental releases of airborne concentrations of the combustible dust to present an explosion hazard from static electrical discharge from personnel.



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Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.
Avoid subsoil penetration.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	: white to off-white granules
Odor	: slight characteristic odor
Odor Threshold	: no data available
pH	: no data available
Melting point/range	: >160 °C, Kofler Hot Bar (OECD 102)
Flash point	: >> 100 °C
Evaporation rate	: no data available
Flammability (solid, gas)	: no data available
Flammability or explosive limits	: no data available
Upper	no data available
Lower (MEC)	no data available
Vapor Pressure	: no data available
Vapor Density	: no data available
Density	: 1.22 g/cc3
Solubility	: insoluble in water
Partition coefficient: n-octanol/water	: no data available
Auto-ignition temperature	: no data available
Decomposition temperature	: stable under normal storage and handling temperatures
Viscosity	: no data available
Molecular formula	: derived from natural products
Molecular weight	: 688 (approximate)

9.2 Other information

Bulk density : 250-350 g/L

10. Stability and reactivity

10.1 Reactivity

Stable at normal ambient temperature and pressure.



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10.2 Chemical stability

No decomposition if stored normally.

10.3 Possibility of hazardous reactions

Hazardous reactions : Risk of dust explosion.

10.4 Conditions to avoid

Conditions to avoid : Avoid dust formation.
Sources of ignition

10.5 Incompatible materials

Materials to avoid : Strong oxidizing agents

10.6 Hazardous decomposition products

Hazardous decomposition products : No decomposition if used as directed.

11. Toxicological information

11.1 Information on toxicological effects

Product:

- Acute oral toxicity : Classification, Labeling according to EC Directives, Regulation (EC) No 1272/2008, Annex VI, Table 3.1, Acute oral toxicity, Category 4
- Acute inhalation toxicity : Classification, Labeling according to EC Directives, Regulation (EC) No 1272/2008, Annex VI, Table 3.1, Acute inhalation toxicity, Category 4
- Acute dermal toxicity : Read-across (Analogy)
: LD50: > 2000 mg/kg bw, rat, OECD Test Guideline 402, GLP: yes, Based on available data, the classification criteria are not met.
- Skin corrosion/irritation : rabbit, Result: not irritating, OECD Test Guideline 404, 4 h, GLP: yes, Based on available data, the classification criteria are not met.
- Serious eye damage/eye irritation : in vitro assay, Result: not irritating, standardized international/national methodology, GLP: yes, Based on available data, the classification criteria are not met.
- Respiratory or skin sensitization : Skin sensitization, Read-across (Analogy)
: LLNA, mouse, Result: not sensitizing, OECD Test Guideline 429, GLP: yes, Based on available data, the classification criteria are not met.
: Respiratory sensitization, Based on available data, the classification criteria are not met.



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- Germ cell mutagenicity
- Genotoxicity in vitro : Read-across (Analogy)
- : Mutagenicity (Salmonella typhimurium - reverse mutation assay), Bacteria, Result: negative, OECD Test Guideline 471, GLP: yes
- : Read-across (Analogy)
- : In vitro gene mutation study in mammalian cells, mouse lymphoma cells, Result: negative, OECD Test Guideline 476, GLP: yes
- : Read-across (Analogy)
- : Mutagenicity (in vitro mammalian cytogenetic test), CHO, Result: negative, OECD Test Guideline 473, GLP: yes, Based on available data, the classification criteria are not met.
- Carcinogenicity : Read-across (Analogy)
- : rat, Exposure time: 2 a, Oral, standardised international/national methodology, GLP: yes, Based on available data, the classification criteria are not met.
- Reproductive toxicity : Read-across (Analogy)
- : rat, Oral, Based on available data, the classification criteria are not met.
- Teratogenicity : Not classified due to lack of data.
- : Study in progress (external)
- STOT - single exposure : Remarks: Read-across (Analogy)
- : Remarks: Based on available data, the classification criteria are not met.
- STOT - repeated exposure : Read-across (Analogy)
- STOT - repeated exposure : rat, Oral, Exposure time: 92 d, NOAEL: 61,1 mg/kg, Based on available data, the classification criteria are not met.
- Aspiration toxicity : Based on available data, the classification criteria are not met.

11.2 Other Information

- Likely route of exposure : Inhalation, Ingestion, Skin contact.
- Carcinogenicity : Not listed in the National Toxicology Program (NTP) Report on carcinogens, not found to be a potential carcinogen by the International Agency for Research on Cancer (IARC) nor by OSHA.
- Further information : CMR effects, Carcinogenicity, Mutagenicity, Reproductive toxicity, Hazard assessment, Category 1A, Category 1B, Based on available data, the classification criteria are not met.



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12. Ecological information

12.1 Toxicity

- Toxicity to fish : Read-across (Analogy)
: LC50: > 97.5 mg Ba/L, 96 h, Danio rerio (zebra fish), static test, OECD Test Guideline 203, GLP: yes
- Toxicity to daphnia and other aquatic invertebrates : Read-across (Analogy)
: LC50: 14,5 mg Ba/L, 48 h, Daphnia magna (Water flea), static test
- Toxicity to algae : Read-across (Analogy)
: NOEC: >= 34,31 mg Ba/L, 72 h, Pseudokirchneriella subcapitata (green algae), static test, OECD Test Guideline 201, GLP: yes
: EC50: > 34,31 mg Ba/L, 72 h, Pseudokirchneriella subcapitata (green algae), static test, OECD Test Guideline 201, GLP: yes
- Toxicity to bacteria : Read-across (Analogy)
: NOEC: >= 500,61 mg Ba/L, 3 h, activated sludge, Respiration inhibition, OECD Test Guideline 209, GLP: yes
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : Read-across (Analogy)
EC16: 5,8 mg/l, 21 d, Daphnia magna (Water flea), semi-static test, OECD Test Guideline 211

Ecotoxicology Assessment

- Acute aquatic toxicity : Based on available data, the classification criteria are not met.
- Chronic aquatic toxicity : Based on available data, the classification criteria are not met.

12.2 Persistence and degradability

- Biodegradability : The organic components of the product are biodegradable.
: The methods for determining biodegradability are not applicable to inorganic substances.

12.3 Bioaccumulative potential

- Bioaccumulation : Read-across (Analogy)
: Bioconcentration factor (BCF): 6,4 - 74,4, Barium

12.4 Mobility in soil



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Mobility : no data available

12.5 Results of PBT and vPvB assessment

Assessment : Based on available data, the classification criteria are not met.

12.6 Other adverse effects

Further information : No information available.

13. Disposal considerations

13.1 Waste treatment methods

Product : Consult an expert on the disposal of recovered material. Dispose in accordance with local, state and federal regulations.

Contaminated packaging : Empty containers must be handled with care due to product residue.

14. Transport information

14.1 UN number : Not applicable
DOT : Not dangerous goods
TDG (Canada) : Not dangerous goods
IMDG : Not dangerous goods
IATA : Not dangerous goods

14.2 Proper shipping name
DOT : Not dangerous goods
TDG (Canada) : Not dangerous goods
IMDG : Not dangerous goods
IATA : Not dangerous goods

14.3 Transport hazard class
DOT : Not dangerous goods
TDG (Canada) : Not dangerous goods
IMDG : Not dangerous goods
IATA : Not dangerous goods

14.4 Packing group
DOT : Not dangerous goods
TDG (Canada) : Not dangerous goods
IMDG : Not dangerous goods
IATA : Not dangerous goods

14.5 Environmental hazards
DOT : Not dangerous goods
TDG (Canada) : Not dangerous goods
IMDG : Not dangerous goods
IATA : Not dangerous goods



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14.6 Special precautions for user

See this safety data sheet chapter 6. - 8.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Remarks : No transport according to Annex II of MARPOL 73/78 and the IBC Code

15. Regulatory information

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

Section 313 Supplier Notification (USA)

This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372:

Components	CAS-No.	wt [%]
Barium compounds	6865-35-6	100

15.2 Chemical Safety Assessment

A Chemical Safety Assessment is not required for this substance.

15.3 Chemical Inventory

Europe	EINECS	:	listed
United States	TSCA	:	listed
Canada	DSL	:	listed
Australia	AICS	:	listed
Japan	ENCS	:	listed
Korea	KECL	:	listed
Philippines	PICCS	:	listed
China	IECSC	:	listed

16. Other information

16.1 HMIS Rating (USA)

Health	2
Flammability	1
Reactivity	1
Personal Protection	E

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.