# SIGMA-ALDRICH

# **Material Safety Data Sheet**

Version 3.0 Revision Date 08/29/2009 Print Date 03/29/2011

	NY IDENTIFICATION			
Product name	Barium hexafluorosilicate			
Product Number	: 433381			
Brand	: Aldrich			
Company	: Sigma-Aldrich 3050 Spruce St SAINT LOUIS M USA			
Telephone	: +18003255832			
Fax	: +18003255052			
Emergency Phone #	: (314) 776-6555			
OMPOSITION/INFORM	ATION ON INGREDIENT	S		
Formula	: BaF <sub>6</sub> Si			
Molecular Weight	: 279.4 g/mol			
CAS-No.	EC-No.	Index-No.	Concentration	
Barium hexafluorosil	icate			
1-10-00 6	044 400 4			
AZARDS IDENTIFICAT	241-189-1	056-002-00-7		
AZARDS IDENTIFICAT Emergency Overview OSHA Hazards Target Organ Effect,	ION	056-002-00-7		
AZARDS IDENTIFICAT Emergency Overview OSHA Hazards Target Organ Effect, Target Organs	ION			
AZARDS IDENTIFICAT Emergency Overview OSHA Hazards Target Organ Effect, Target Organs	ION , Toxic by ingestion es., Gastrointestinal tract, 2	056-002-00-7 Bone marrow, Liver, Spleen.		
AZARDS IDENTIFICAT Emergency Overview OSHA Hazards Target Organ Effect, Target Organs Kidney, Heart, Nerve HMIS Classification Health Hazard: Chronic Health Haz Flammability: Physical hazards:	ION , Toxic by ingestion es., Gastrointestinal tract, eard: 2 * 0			
AZARDS IDENTIFICAT Emergency Overview OSHA Hazards Target Organ Effect, Target Organs Kidney, Heart, Nerve HMIS Classification Health Hazard: Chronic Health Haz Flammability: Physical hazards: NFPA Rating Health Hazard: Fire:	ION , Toxic by ingestion es., Gastrointestinal tract, 2 2 2 0 0 0			
AZARDS IDENTIFICAT Emergency Overview OSHA Hazards Target Organ Effect, Target Organs Kidney, Heart, Nerve HMIS Classification Health Hazard: Chronic Health Haz Flammability: Physical hazards: NFPA Rating Health Hazard: Fire: Reactivity Hazard:	ION Toxic by ingestion es., Gastrointestinal tract, 2 2 2 2 0 0 2 0 0 5 May be harmful if inha		act irritation.	

## 4. FIRST AID MEASURES

## **General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

## If inhaled

If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician.

#### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

#### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

## **5. FIRE-FIGHTING MEASURES**

#### Flammable properties

Flash point not applicable

Ignition temperature no data available

## Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

## Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

## 6. ACCIDENTAL RELEASE MEASURES

## Personal precautions

Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.

## Environmental precautions

Do not let product enter drains.

## Methods for cleaning up

Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

## 7. HANDLING AND STORAGE

## Handling

Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

## Storage

Keep container tightly closed in a dry and well-ventilated place.

Keep in a dry place.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Components with workplace control parameters

Components	CAS-No.	Value	Control parameters	Update	Basis	
Aldrich - 433381			Sigma-Aldric	h Corporation		Page

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Barium hexafluorosilicate	17125-80-3	TWA	0.5 mg/m3	1997-08-04	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	0.5 mg/m3	2007-01-01	USA. ACGIH Threshold Limit Values (TLV)
Remarks	carcinogen: / which canno studies do no	Agents wh t be asses ot provide	ich cause concern sed conclusively b	that they could be ecause of a lack o	Not classifiable as a human e carcinogenic for humans but f data. In vitro or animal are sufficient to classify the
		TWA	0.5 mg/m3	1989-01-19	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000

#### Personal protective equipment

## **Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

## Hand protection

Handle with gloves.

## Eye protection

Face shield and safety glasses

## Skin and body protection

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

## Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

## Appearance

Form	powder
Safety data	
рН	no data available
Melting point	no data available
Boiling point	no data available
Flash point	not applicable
Ignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Water solubility	no data available

## **10. STABILITY AND REACTIVITY**

#### Storage stability

Stable under recommended storage conditions.

## Materials to avoid

Water, acids

#### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Hydrogen fluoride, Barium oxide, silicon oxides

# **11. TOXICOLOGICAL INFORMATION**

#### Acute toxicity

LD50 Oral - rat - 175 mg/kg Remarks: Cyanosis Diarrhoea Other changes

### Irritation and corrosion

no data available

## Sensitisation

no data available

### Chronic exposure

- IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
- OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

## Signs and Symptoms of Exposure

Vomiting, Diarrhoea, Abdominal pain, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

## **Potential Health Effects**

Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.
Skin	May be harmful if absorbed through skin. May cause skin irritation.
Eyes	May cause eye irritation.
Ingestion	Toxic if swallowed.
Target Organs	Kidney, Heart, Nerves., Gastrointestinal tract, Bone marrow, Liver, Spleen.,

## **12. ECOLOGICAL INFORMATION**

## Elimination information (persistence and degradability)

no data available

## **Ecotoxicity effects**

no data available

#### Further information on ecology

no data available

<b>Product</b> Observe all federal, state, and local environmental regulations. Co service to dispose of this material. Dissolve or mix the material wit incinerator equipped with an afterburner and scrubber.		
Contaminated packaging		
Dispose of as unused product.		
TRANSPORT INFORMATION		
<b>DOT (US)</b> UN-Number: 1564 Class: 6.1 Packing group: III Proper shipping name: Barium compounds, n.o.s. Marine pollutant: No Poison Inhalation Hazard: No		
IMDG UN-Number: 1564 Class: 6.1 Packing group: III Proper shipping name: BARIUM COMPOUND, N.O.S. Marine pollutant: No	EMS-No: F-A, S-A	
IATA UN-Number: 1564 Class: 6.1 Packing group: III Proper shipping name: Barium compound n.o.s.		
REGULATORY INFORMATION		
<b>OSHA Hazards</b> Target Organ Effect, Toxic by ingestion		
<b>DSL Status</b> This product contains the following components listed on the Cana Canadian DSL list.	adian NDSL list. All other com	ponents are on the
	CAS-No.	
Barium hexafluorosilicate	17125-80-3	
SARA 302 Components SARA 302: No chemicals in this material are subject to the reporti	ing requirements of SARA Title	e III, Section 302.
SARA 313 Components		
Barium hexafluorosilicate	CAS-No. 17125-80-3	Revision Date 2007-07-01
SARA 311/312 Hazards Acute Health Hazard, Chronic Health Hazard		
Massachusetts Right To Know Components	Act.	
No components are subject to the Massachusetts Right to Know A		
No components are subject to the Massachusetts Right to Know A Pennsylvania Right To Know Components	CAS-No. 17125-80-3	Revision Date 2007-07-01
No components are subject to the Massachusetts Right to Know A	CAS-No. 17125-80-3	Revision Date 2007-07-01

## California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects.

## **16. OTHER INFORMATION**

## **Further information**

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