

Safety Data Sheet SID2754.2 Date of issue: 06/22/2016 Version:

Version: 1.0

SECTION 1: Identification of the su	bstance/mixture and of the company/undertaking
1.1. Product identifier	······································
Product form	: Substance
Physical state	: Solid
Substance name	: DIATOMACEOUS EARTH, calcined
Product code	: SID2754.2
Formula	: SiO2
Synonyms	: SILICON DIOXIDE, DIATOMACEOUS; DIATOMACEOUS EARTH; KIESELGUHR, SODA
	ASH, FLUX CALCINED
Chemical family	: INORGANIC SILICATE
1.2. Relevant identified uses of the sub	stance or mixture and uses advised against
Use of the substance/mixture	: Chemical intermediate For research and industrial use only
1.3. Details of the supplier of the safety	/ data sheet
GELEST, INC.	
11 East Steel Road Morrisville, PA 19067	
USA T 215-547-1015 - F 215-547-2484 - (M-F): 8:00	) AM - 5:30 PM EST
info@gelest.com - www.gelest.com	7 AWI - 3.30 FIMILEST
1.4. Emergency telephone number	
Emergency number	: CHEMTREC: 1-800-424-9300 (USA); +1 703-527-3887 (International)
<b>SECTION 2: Hazards identification</b>	
2.1. Classification of the substance or	mixture
GHS-US classification Carc. 1A H350 STOT RE 1 H372	
Full text of H statements : see section 16	
2.2. Label elements	
GHS-US labeling	
Hazard pictograms (GHS-US)	
	GHS08
Signal word (GHS-US)	: Danger
Hazard statements (GHS-US)	<ul> <li>H350 - May cause cancer</li> <li>H372 - Causes damage to organs through prolonged or repeated exposure</li> </ul>
Precautionary statements (GHS-US)	<ul> <li>P201 - Obtain special instructions before use</li> <li>P202 - Do not handle until all safety precautions have been read and understood</li> <li>P280 - Wear protective gloves/protective clothing/eye protection/face protection</li> <li>P260 - Do not breathe dust</li> <li>P264 - Wash hands thoroughly after handling</li> <li>P270 - Do not eat, drink or smoke when using this product</li> <li>P308+P313 - If exposed or concerned: Get medical advice/attention</li> <li>P405 - Store locked up</li> <li>P501 - Dispose of contents/container to licensed waste disposal facility</li> </ul>
2.3. Other hazards	
No additional information available	

Unknown acute toxicity (GHS US) 2.4.

No data available

Safety Data Sheet

SECTION 3: Composition/Information on ingredients						
3.1. Substance						
Substance type : Multi-constituent						
Name	: DIATO	: DIATOMACEOUS EARTH, calcined				
CAS No	: 68855	: 68855-54-9				
EC no : 272-489-0						
Name		Product identifier	%	GHS-US classification		
Diatomaceous earth, calcined		(CAS No) 68855-54-9	90 - 100	Not classified		
Cristobalite silica		(CAS No) 14464-46-1	0 - 10	Carc. 1A, H350 STOT RE 1, H372		

#### 3.2. Mixture

#### Not applicable

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general	: Remove contaminated clothing and shoes. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). If possible show this sheet; if not available show packaging or label.
First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician.
First-aid measures after skin contact	: Wash with plenty of soap and water. Get medical advice/attention.
First-aid measures after eye contact	: Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.
First-aid measures after ingestion	: Never give anything by mouth to an unconscious person. Get medical advice/attention.
4.2. Most important symptoms and effect	s, both acute and delayed
Symptoms/injuries	: Causes damage to organs through prolonged or repeated exposure. May cause cancer.
Symptoms/injuries after inhalation	: May cause irritation to the respiratory tract. Exposure to respirable silica can cause silicosis, a fibrosis (scarring) of the lungs.
Symptoms/injuries after skin contact	: May cause skin irritation. There is evidence that silica can exacerbate scleroderma, an immune disorder of the skin.
Symptoms/injuries after eye contact	: May cause eye irritation. May cause abrasion of cornea.
Symptoms/injuries after ingestion	: May be harmful if swallowed.
Chronic symptoms	: Silicosis can occur after many years of of exposure to relatively low levels of airborne respirable silica. IARC has concluded that there was sufficient evidence of the carcinogenicity of respirable crystalline silica to experimental animals, and that carcinogenicity of respirable silica to humans is anticipated.

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

No additional information available

SECT	ON 5: Firefighting measures	
5.1.	Extinguishing media	
Suitable	extinguishing media	: Not combustible.
Unsuita	ble extinguishing media	: None known.
5.2.	Special hazards arising from the su	bstance or mixture
Fire haz	ard	: None known.
5.3.	Advice for firefighters	
Protecti	on during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Avoid contact with skin and eyes. Do not breathe dust.

SECTIC	ON 6: Accidental release mea	sures	
6.1.	Personal precautions, protective eq	uipme	nt and emergency procedures
6.1.1.	For non-emergency personnel		
Protective	e equipment	: We	ear protective equipment as described in Section 8.
Emergen	cy procedures	: Ev	acuate unnecessary personnel.
6.1.2.	For emergency responders		
Protective	equipment	pro	not attempt to take action without suitable protective equipment. Equip cleanup crew with oper protection. For further information refer to section 8: "Exposure controls/personal otection".

# DIATOMACEOUS EARTH, calcined Safety Data Sheet

6.2. Environmental preca	utions					
Prevent entry to sewers and put		uthorities if	product enters sewers or pu	blic waters.		
	-					
For containment	r containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or					
Methods for cleaning up	streams.           Methods for cleaning up         : Sweep or shovel spills into appropriate container for disposal.					
6.4. Reference to other s	ections					
See Heading 8. Exposure contro	ols and personal pro	otection.				
SECTION 7: Handling ar	nd storage					
7.1. Precautions for safe						
	ditional hazards when processed : While not flammable, the ability of particulate silica to generate static charge may present a hazard when used in combination with flammable liquids.					
Precautions for safe handling	:	read and	understood. Avoid contact wi	ith skin and eyes. Do	all safety precautions have been o not breathe dust. Avoid dust n to minimize exposure to dust.	
Hygiene measures	:		taminated clothing before re water before eating, drinking		nd other exposed areas with mild en leaving work.	
7.2. Conditions for safe s	torage, including	any incom	patibilities			
Storage conditions	:	Keep cont	tainer tightly closed. Store lo	cked up.		
Incompatible materials	:	None kno	wn.			
Storage area	:	Store in a	well-ventilated place.			
7.3. Specific end use(s)						
No additional information availab	ble					
SECTION 8: Exposure c	ontrols/person	al prote	ction			
8.1. Control parameters						
Cristobalite silica (14464-46-	1)					
USA ACGIH	ACGIH TWA (mg	/m³)		0.05 mg/m³		
USA OSHA	OSHA PEL (TWA	.) (mg/m³)		0.05 mg/m <sup>3</sup>		
8.2. Exposure controls						
Appropriate engineering controls	; ;	Provide lo	cal exhaust or general room	ventilation.		
Personal protective equipment			unnecessary exposure. Emer in the immediate vicinity of a		untains and safety showers should b re.	
Hand protection	:	Neoprene	or nitrile rubber gloves.			
Eye protection	:		goggles. Contact lenses sho	uld not be worn.		
Skin and body protection	:		able protective clothing.			
Respiratory protection	:	Where ex	posure through inhalation ma	ay occur from use, re	espiratory protection equipment is	
		recomme	nded. NIOSH-certified dust a	nd mist (orange car	tridge) respirator.	
SECTION 9: Physical an	d chemical pro	operties				
9.1. Information on basic	physical and che	mical prop	oerties			
Physical state	:	Solid				
Appearance	:	Powder.				
Molecular mass	:	60.09 g/m	ol			
	: White.					
Color	:	wille.	: No data available			
	:		vailable			
Odor	:					
Odor Odor threshold	: : :	No data a	vailable			
Odor Odor threshold Refractive index	: : : :	No data a No data a	vailable vailable			
Odor Odor threshold Refractive index pH	: : : : acetate=1) :	No data a No data a No data a	vailable vailable vailable			
Odor Odor threshold Refractive index pH Relative evaporation rate (buty)		No data a No data a No data a No data a	vailable vailable vailable			
Color Odor Odor threshold Refractive index pH Relative evaporation rate (butyl Melting point Freezing point		No data a No data a No data a No data a No data a	vailable vailable vailable vailable			
Odor Odor threshold Refractive index pH Relative evaporation rate (butyl Melting point Freezing point		No data a No data a No data a No data a No data a 1610 °C	vailable vailable vailable vailable			
Odor Odor threshold Refractive index pH Relative evaporation rate (buty) Melting point	:	No data a No data a No data a No data a No data a 1610 °C No data a	vailable vailable vailable vailable vailable			
Odor Odor threshold Refractive index pH Relative evaporation rate (butyl Melting point Freezing point Boiling point	:	No data a No data a No data a No data a 1610 °C No data a 2230 °C	vailable vailable vailable vailable vailable			

Safety Data Sheet

Flammability (solid, gas)	: No data available		
Vapor pressure	: < 0.01 mm Hg @ 20°C		
Relative vapor density at 20 °C	: No data available		
Relative density	: 2.3		
VOC content	: 0%		
Solubility	: Insoluble in water.		
Log Pow	: No data available		
Log Kow	: No data available		
Viscosity, kinematic	: No data available		
Viscosity, dynamic	: No data available		
Explosive properties	: No data available		
Oxidizing properties	: No data available		
Explosion limits	: No data available		
9.2. Other information			
No additional information available			
<b>SECTION 10: Stability and reactivity</b>			
10.1. Reactivity			
No additional information available			
10.2. Chemical stability			
Stable.			
10.3. Possibility of hazardous reactions			
No additional information available			
10.4. Conditions to avoid			
None known.			

## 10.5. Incompatible materials

None known.

## 10.6. Hazardous decomposition products

None known.

# SECTION 11: Toxicological information

<b>11.1.</b> Information on toxicological effects	
Acute toxicity	: Not classified
Diatomaceous earth, calcined (68855-54-9)	
LD50 oral rat	> 5000 mg/kg
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: May cause cancer.
Diatomaceous earth, calcined (68855-54-9)	
IARC group	3 - Not classifiable
Cristobalite silica (14464-46-1)	
IARC group	1 - Carcinogenic to humans
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Causes damage to organs through prolonged or repeated exposure.
Aspiration hazard	: Not classified
Symptoms/injuries after inhalation	: May cause irritation to the respiratory tract. Exposure to respirable silica can cause silicosis, a fibrosis (scarring) of the lungs.
Symptoms/injuries after skin contact	: May cause skin irritation. There is evidence that silica can exacerbate scleroderma, an immune disorder of the skin.
Symptoms/injuries after eye contact	: May cause eye irritation. May cause abrasion of cornea.
Symptoms/injuries after ingestion	: May be harmful if swallowed.

# DIATOMACEOUS EARTH, calcined Safety Data Sheet

Chronic symptoms	: Silicosis can occur after many years of of exposure to relatively low levels of airborne respirable silica. IARC has concluded that there was sufficient evidence of the carcinogenicity of respirable crystalline silica to experimental animals, and that carcinogenicity of respirable silica to humans is anticipated.
<b>SECTION 12: Ecological informatic</b>	on la
12.1. Toxicity	
No additional information available	
12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
Diatomaceous earth, calcined (68855-54-9	
BCF fish 1	(no known bioaccumulation)
12.4. Mobility in soil	
No additional information available	
12.5. Other adverse effects	
Effect on ozone layer	: No additional information available
Effect on the global warming	: No known effects from this product.
SECTION 13: Disposal consideration	ons
13.1. Waste treatment methods	
Sewage disposal recommendations	: Do not dispose of waste into sewer.
Waste disposal recommendations	<ul> <li>Landfill. Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to licensed waste disposal facility.</li> </ul>
Ecology - waste materials	: Avoid release to the environment.
<b>SECTION 14: Transport information</b>	n j
14.1. UN number	
Not regulated for transport.	
14.2. UN proper shipping name	
Not applicable	
14.3. Additional information	
Other information	: No supplementary information available.
Transmithered	
Transport by sea No additional information available	
Air transport No additional information available	
SECTION 15: Regulatory information	
15.1. US Federal regulations	54.0)
DIATOMACEOUS EARTH, calcined (68855 TSCA Exemption/Exclusion	Exempt-Naturally Occurring Substances in accordance with 40 CFR 710.4(b)
Diatomaceous earth, calcined (68855-54-9	
Listed on the United States TSCA (Toxic Sub	,
Cristobalite silica (14464-46-1)	
Listed on the United States TSCA (Toxic Sub	ostances Control Act) inventory
15.2. International regulations	

**15.2. International regulations** 

Safety Data Sheet

Diatomaceous earth, calcined (68855-54-9)	
	Inces List) al Substances Produced or Imported in China) an Inventory of Existing Commercial Chemical Substances) v Chemical Substances) inventory List) nemicals)
Listed on the Canadian IDL (Ingredient Disclos Listed on INSQ (Mexican National Inventory of Listed on CICR (Turkish Inventory and Control Cristobalite silica (14464-46-1)	ure List) Chemical Substances)
Listed on the AICS (Australian Inventory of Ch Listed on the Canadian DSL (Domestic Substa Listed on IECSC (Inventory of Existing Chemic	Inces List) al Substances Produced or Imported in China) an Inventory of Existing Commercial Chemical Substances) v Chemical Substances) inventory List) nemicals)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

### 15.3. US State regulations

DIATOMACEOUS EARTH, calcined(68855-54-9)		
U.S California - Proposition 65 - Carcinogens List	No	
U.S California - Proposition 65 - Developmental Toxicity	No	
U.S California - Proposition 65 - Reproductive Toxicity - Female	No	
U.S California - Proposition 65 - Reproductive Toxicity - Male	No	

# Diatomaceous earth, calcined (68855-54-9)

U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	Non-significant risk level (NSRL)	
No	No	No	No		
Cristobalite silica (144	64-46-1)				
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	Non-significant risk level (NSRL)	
No	No	No	No		
Diatomaceous earth, calcined (68855-54-9)					
U.S Pennsylvania - RTK (Right to Know) List					
Cristobalite silica (14464-46-1)					
U.S New Jersey - Right to Know Hazardous Substance List					

SECTION 16: Other information

Abbreviations and acronyms

Abbreviations: ND: Not Determined, No Data; NA: Not Applicable; LD: Lethal Dose; LC: Lethal : Concentration; ATE: Acute Toxicity Estimates; H: hour; °: °C unless otherwise stated; mm: millimeters Hg, torr; PEL: permissible exposure level; TWA: time weighted average; TLV: threshold limit value; TG: Test Guideline; NIOSH: National Institute for Occupational Safety and Health; IARC: International Agency for Research on Cancer; NTP: National Toxicology Program; HMIS: Hazardous Material Information System; CAS No.: Chemcial Abstract Service Registration Number; EC No.: European Commission Registration Number; EC Index No.: European Commission Index Number; OECD: The Organisation for Economic Co-operation and Development.

#### Full text of H-phrases::

H350	May cause cancer
H372	Causes damage to organs through prolonged or repeated exposure

Safety Data Sheet

## HMIS III Rating Health : 3 Se

: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given

Flammability Physical

- : 0 Minimal Hazard
- : 0 Minimal Hazard

Prepared by safety and environmental affairs.

Date of issue: 06/22/2016 Version: 1.0

SDS US (GHS HazCom 2012) - Custom

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

The information contained in this document has been gathered from reference materials and/or Gelest, Inc. test data and is to the best knowledge and belief of Gelest, Inc. accurate and reliable. Such information is offered solely for your consideration, investigation and verification. It is not suggested or guaranteed that the hazard precautions or procedures described are the only ones which exist. Gelest, Inc. makes no warranties, express or implied, with respect to the use of such information and assumes no responsibility therefore. Information on this safety data sheet is not intended to constitute a basis for product specifications.

© 2016 Gelest Inc. Morrisville, PA 19067

