Material Safety Data Sheet

Version 5.0 Revision Date 10/24/2012 Print Date 04/24/2013

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Silicon dioxide

Product Number : S5631

Brand : Sigma-Aldrich

Supplier : Sigma-Aldrich

3050 Spruce Street SAINT LOUIS MO 63103

USA

Telephone : +1 800-325-5832 Fax : +1 800-325-5052 Emergency Phone # (For : (314) 776-6555

both supplier and

manufacturer)

Preparation Information : Sigma-Aldrich Corporation

Product Safety - Americas Region

1-800-521-8956

2. HAZARDS IDENTIFICATION

Emergency Overview

OSHA Hazards

Target Organ Effect, Carcinogen

Target Organs

Lungs

GHS Classification

Specific target organ toxicity - repeated exposure, Inhalation (Category 2)

GHS Label elements, including precautionary statements

Pictogram

Signal word Warning

Hazard statement(s)

H373 May cause damage to organs through prolonged or repeated exposure if inhaled.

Precautionary none

statement(s)

HMIS Classification

Health hazard: 0
Chronic Health Hazard: *
Flammability: 0
Physical hazards: 0

NFPA Rating

Health hazard: 0 Fire: 0 Reactivity Hazard: 0

Potential Health Effects

Inhalation May be harmful if inhaled. May cause respiratory tract irritation.

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Skin May be harmful if absorbed through skin. May cause skin irritation.

Eyes May cause eye irritation.
Ingestion May be harmful if swallowed.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms : Silica

Quartz Sand Cristobalite

Formula : O₂Si

Molecular Weight : 60.08 g/mol

Component		Concentration
Quartz		
CAS-No.	14808-60-7	-
EC-No.	238-878-4	

4. FIRST AID MEASURES

General advice

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Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

Conditions for safe storage

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value	Control	Basis	
			parameters		
Quartz	14808-60-7	TWA	0.025 mg/m3	USA. ACGIH Threshold Limit Values (TLV)	
Remarks	Suspected human carcinogen				
		TWA	0.025 mg/m3	USA. ACGIH Threshold Limit Values (TLV)	
	Lung cancer Pulmonary fibrosis Suspected human carcinogen				

Personal protective equipment

Respiratory protection

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching

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IARC: 1 - Group 1: Carcinogenic to humans (Quartz)

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no data available

Other adverse effects

no data available

13. DISPOSAL CONSIDERATIONS

Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

15. REGULATORY INFORMATION

OSHA Hazards

Target Organ Effect, Carcinogen

SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

Chronic Health Hazard

Massachusetts Right To Know Components

Quartz	CAS-No. 14808-60-7	Revision Date 2007-03-01
Pennsylvania Right To Know Components Quartz	CAS-No. 14808-60-7	Revision Date 2007-03-01
New Jersey Right To Know Components Quartz	CAS-No. 14808-60-7	Revision Date 2007-03-01
California Prop. 65 Components WARNING! This product contains a chemical known to the State of California to cause cancer. Quartz	CAS-No. 14808-60-7	Revision Date 1988-10-01

16. OTHER INFORMATION

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on

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