

Safety data sheet

Printing date: 08.06.2015

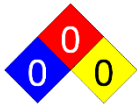

According to 1907/2006/EC (REACH), 1272/2008/EC (CLP),
and US GHS

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SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1	Product Identifier	Fused Silica
	GHS Product Identifier	Fused Silica
	Chemical Name	Silicon Dioxide
	Trade Name	See Product Identifier
	CAS No.	7631-86-9
	EINECS No.	231-545-4
	REACH Registration No.	Not applicable
1.2	Relevant Identified Uses Of The Substance Or Mixture And Uses Advised Against	
	Application of the substance/the mixture	Product component
1.3	Details Of The Supplier Of The Safety Data Sheet	
	Company Identification	Washington Mills
	Address	1801 Buffalo Avenue Niagara Falls, NY 14302
	Telephone	1-800-828-1666
	E-Mail (Competent Person)	info@washingtonmills.com
1.4	Emergency Telephone Number – ChemTel	
	(800)255-3924 (USA/Canada), 813-248-0585 (International)	

SECTION 2: HAZARDS IDENTIFICATION

2.1	Classification Of The Substance Or Mixture		
2.1.1	Classification according to Regulation (EC) No. 1272/2008 (CLP)		
	The substance is not classified as hazardous according to the CLP regulation.		
2.1.2	Classification according to Directive 67/548/EEC & Directive 1999/45/EC – Not applicable.		
	Information concerning particular hazards for human and environment:		
	The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.		
	Classification system:		
	The classification is according to the latest editions of the EU-lists, and extended by company and literature data.		
	The classification is in accordance with the latest editions of international substances lists, and is supplemented by information from technical literature and by information provided by the company.		
2.2	Label Elements		
2.2.1	Label Elements According to Regulation (EC) No. 1272/2008 (CLP)		
	This product does not have a classification according to the CLP regulation.		
	The product is not classified as hazardous according to OSHA GHS regulations within the United States.		
	Hazard Pictogram(s)	Not Regulated	Signal Word(s) Not Regulated
	Hazard-determining components of labelling:	None	
	Hazard Statement(s)	Not Regulated	
	Hazard description:		
	WHMIS-symbols:	Not hazardous under WHMIS.	
	NFPA ratings (scale 0 - 4)	<div style="display: flex; align-items: center;">  <div style="margin-left: 10px;"> Health = 0 Fire = 0 Reactivity = 0 </div> </div>	
	HMIS-ratings (scale 0 - 4)	<div style="display: flex; align-items: center;">  <div style="margin-left: 10px;"> Health = *0 Fire = 0 Reactivity = 0 </div> </div>	
	HMIS Long Term Health Hazard Substances	14808-60-7	Quartz (SiO2)
2.3	Other Hazards		

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Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances




CAS No. Description

7631-86-9 silicon dioxide

Identification number(s)

EC number: 231-545-4

Dangerous Components:

Hazardous Ingredient(s)	%W/W	CAS No.	EC No.	Hazard Pictogram(s)	Hazard Statement(s) and Risk (R) Phrase(s)
Quartz (SiO ₂)	≤ 1,0	14808-60-7	238-878-4		Carc. 1A, H350
					Xn R48
					T R49

SECTION 4: FIRST AID MEASURES

4.1 Description of First Aid Measures

General Information: No special measures required.
After Inhalation: Supply fresh air; consult doctor in case of complaints.
After Skin Contact: Brush off loose particles from skin. Wash with soap and water. If skin irritation is experienced, consult a doctor.
After Eye Contact: Remove contact lenses if worn. Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
After Swallowing: Rinse out mouth and then drink plenty of water. Do not induce vomiting; call for medical help immediately.

4.2 Most Important Symptoms And Effects, Both Acute And Delayed
Slight irritant effect on eyes.

Hazards
No further relevant information available.

4.3 Indication Of The Immediate Medical Attention And Special Treatment Needed
No further relevant information available.

SECTION 5: FIRE-FIGHTING MEASURES

- 5.1 Extinguishing Media**
Suitable Extinguishing Media Use fire extinguishing methods suitable to surrounding conditions.
Unsuitable Extinguishing Media None.
- 5.2 Special Hazards Arising From The Substance Or Mixture**
No further relevant information available.
- 5.3 Advice for Fire-Fighters**
Wear self-contained respiratory protective device. Wear fully protective suit.
- Additional Information**
No further relevant information available.

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Fused Silica (See Page 1)**SECTION 6: ACCIDENTAL RELEASE MEASURES**

6.1 Personal Precautions, Protective Equipment And Emergency Procedures	Ensure adequate ventilation. Avoid formation of dust. For large spills, use respiratory protective device against the effects of fumes/dust/aerosol. For large spills, wear protective clothing.
6.2 Environmental Precautions	Do not allow to enter sewers/ surface or ground water.
6.3 Methods And Material For Containment And Cleaning Up	Pick up mechanically. Send for recovery or disposal in suitable receptacles. Dispose contaminated material as waste according to item 13.
6.4 Reference To Other Sections	See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions For Safe Handling	Prevent formation of dust. Do not dry clean dust covered objects and floors. Wash thoroughly with plenty of water. Any unavoidable deposit of dust must be regularly removed. Use only in well ventilated areas.
Information About Fire – and explosion protection	No special measures required.
7.2 Conditions For Safe Storage, Including Any Incompatibilities: Requirements to be Met by Storerooms and Receptacles:	No special requirements.
Information About Storage in One Common Storage Facility:	Store away from oxidizing agents. Store away from foodstuffs. Do not store together with acids.
Further information about storage conditions:	None.
7.3 Specific End Use(s)	No further relevant information available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**Additional information about design of technical facilities:** No further data; see item 7.**8.1 Control Parameters****Ingredients with limit values that require monitoring at the workplace:**

Quartz (SiO ₂)	14808-60-7	PEL (USA)	see Quartz listing
		REL (USA)	Long-term value: 0,05* mg/m ³ *respirable dust; See Pocket Guide App. A
		TLV (USA)	Long-term value: 0,025* mg/m ³ *as respirable fraction
		EL (Canada)	Long-term value: 0,025 mg/m ³ ACGIH A2; IARC 1
		EV (Canada)	Long-term value: 0,10* mg/m ³ *respirable fraction

DNELs No further relevant information available.**PNECs** No further relevant information available.**Additional information:** The lists valid during the making were used as basis.

8.2 Exposure Controls	
8.2.2 Personal Protective Equipment:	
General protective and hygienic measures:	



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	General protective and hygienic measures:	The usual precautionary measures are to be adhered to when handling chemicals. Wash hands before breaks and at the end of work. Do not inhale dust / smoke / mist. Avoid contact with the eyes and skin. Keep away from foodstuffs, beverages and feed.
	Respiratory Protection	Not required under normal conditions of use. Use suitable respiratory protective device when high concentrations are present. For spills, respiratory protection may be advisable.
	Eye Protection	Wear safety glasses.
	Protection of Hands	Wear protective gloves.
	Body Protection	Not required under normal conditions of use. Protection may be required for spills.
	Risk Management Measures	No special requirements.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1	Information On Basic Physical And Chemical Properties			
	Appearance	Granulate	Color	Black
	Odor	Odourless	Odor Threshold (ppm)	Not available
	Melting Point (°C) / Freezing Point (°C)	Not available	Boiling Point/Boiling Range (°C)	Not available
	Flash Point (°C)	No Data	Explosive Limit Ranges	Not available
	Auto Ignition Temperature (°C)	Not available	Decomposition Temperature (°C)	Not available
	Explosive Properties	None	Oxidizing Properties	Not available
	Flammability (Solid, Gas)	Not available	Ph (Value)	Not available
	Evaporation Rate	N/A	Vapor Pressure (mm Hg)	Not available
	Vapor Density (Air=1)	N/A	Density (g/ml)	Not available
	Solubility (Water)	Insoluble	Solubility (Other)	Not available
	Partition Coefficient (N-Octanol/Water)	Not available	Viscosity (mPa.s)	Not available
9.2	Other Information	No further relevant information available.		

SECTION 10: STABILITY AND REACTIVITY

10.1	Reactivity	
10.2	Chemical Stability	
	Thermal Decomposition / conditions to be avoided:	No decomposition if used according to specifications.
10.3	Possibility of Hazardous Reactions	Reacts with strong acids and alkali. Reacts with strong oxidising agents.
10.4	Conditions To Avoid	No further relevant information available.
10.5	Incompatible Materials	No further relevant information available.
10.6	Hazardous Decomposition Product(s)	No dangerous decomposition products known.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1	Information on Toxicological Effects	
	Acute toxicity:	
	LD/LC50 values relevant for classification:	
	7631-86-9 silicon dioxide	
Oral	LD50	10000 mg/kg (rat)

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Dermal	LD50	5000 mg/kg (rat)
Primary Irritant Effect: On the skin: Slight irritant effect on skin and mucous membranes. On the eye: Slight irritant effect on eyes. Sensitisation: No sensitizing effects known. Additional toxicological information: When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us. The substance is not subject to classification according to the latest version of the EU lists. CMR effects (carcinogenicity, mutagenicity, and toxicity for reproduction): Contains known or suspect carcinogens when inhaled. Product is in non-inhalable form and is nonclassifiable as a carcinogen.		

SECTION 12: ECOLOGICAL INFORMATION

12.1	Toxicity	
	Aquatic toxicity:	No further relevant information available.
12.2	Persistence and Degradability	No further relevant information available.
12.3	Bioaccumulative Potential	No further relevant information available.
12.4	Mobility in Soil	No further relevant information available.
	Additional ecological information:	
	General notes:	Generally not hazardous for water.
12.5	Results of PBT and vPvB Assessment	PBT: Not applicable. vPvB: Not applicable.
12.6	Other Adverse Effects	No further relevant information available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1	Waste Treatment Methods Recommendation	Smaller quantities can be disposed of with household waste. Contact waste processors for recycling information. The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous.
	Uncleaned Packaging: Recommendation:	Disposal must be made according to official regulations.

SECTION 14: TRANSPORT INFORMATION

Land Transport (ADR/RID) (c)(d)		Land Transport (Within USA) (b)(d)	
UN Number	None	UN Number	None
Proper Shipping Name	Not classified as dangerous for transport.	Proper Shipping Name	Not classified as dangerous for transport.
Transport Hazard Class(es)	None	Transport Hazard Class(es)	None
Packing Group	None	Packing Group	None
Hazard Label(s)	None	Hazard Label(s)	None
Environmental Hazards	None	Environmental Hazards	None
Special Precautions For User	None	Special Precautions For User	None
Sea Transport (IMDG) (c)		Air Transport (ICAO/IATA) (c) (d)	
UN Number	None	UN Number	None
Proper Shipping Name	Not classified as dangerous for transport.	Proper Shipping Name	Not classified as dangerous for transport.
Transport Hazard Class(es)	None	Transport Hazard Class(es)	None
Packing Group	None	Packing Group	None
Marine Pollutant	None	Marine Pollutant	None

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Special Precautions For User	None	Special Precautions For User	None
<p>(b)- ORM-D may be applicable within the USA for package sizes less than 30kg. (c)- Consult with transport provider. (d)- Check relevant regulations for Special Provisions.</p>			
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code			

SECTION 15: REGULATORY INFORMATION

15.1 Safety, Health And Environmental Regulations/Legislation Specific For The Substance Or Mixture

USA

SARA

Section 355 (extremely hazardous substances)

Substance is not listed.

Section 313 (Specific toxic chemical listings)
TSCA (Toxic Substance Control Act)

Substance is not listed.

Substance is listed.

Proposition 65 (California):

Chemicals known to cause cancer:

Reference to Crystalline Silica and/or Quartz is based on unbound respirable particles and is not generally applicable to product as supplied.

14808-60-7 Quartz (SiO₂)

Chemicals known to cause reproductive toxicity for females:

Substance is not listed.

Chemicals known to cause reproductive toxicity for males:

Substance is not listed.

Chemicals known to cause developmental toxicity:

Substance is not listed.

Carcinogenic Categories

EPA (Environmental Protection Agency)

Substance is not listed.

IARC (International Agency for Research on Cancer)

7631-86-9 silicon dioxide

3

14808-60-7 Quartz (SiO₂)

1

TLV (Threshold Limit Value established by ACGIH)

14808-60-7 Quartz (SiO₂)

A2

MAK (German Maximum Workplace Concentration)

14808-60-7 Quartz (SiO₂)

1

NIOSH-Ca (National Institute for Occupational Safety and Health)

14808-60-7 Quartz (SiO₂)

Canada

Canadian Domestic Substances List (DSL)

Substance is listed.

Canadian Ingredient Disclosure list (limit 0.1%)

Substance is not listed.

Canada Ingredient Disclosure list (limit 1%)

Substance is listed.

Other regulations, limitations and prohibitive regulations

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

Substances of very high concern (SVHC)
according to REACH, Article 57

Substance is not listed.

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out.

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SECTION 16: OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Additional information:

- The accumulation of airborne dust particles may lead to health and safety risks in some cases. The use of good industrial practices will mitigate this risk.
- The health risks from inhalation of dust particles vary; this is due to particle concentration, exposure length, number of exposures and type of particles inhaled. Please read Section 2,4,6,7 and 8 of the SDS to understand these potential risks. Wear personal protective equipment and follow storage and handling procedures to maintain a safe workplace.
- In rare instances, combustible dusts may represent a potential explosion hazard when airborne. This hazard is often associated with organic dust such as foodstuffs and coal, but may also occur with mineral products. While the majority of our products would be considered non-combustible, the overall airborne environment should be considered when determining the need for mitigation from the potential hazard. Consult recognized experts when necessary in order to determine any possible hazard.

Please read the SDS for specific information concerning these hazards, and contact us with any further questions. We appreciate your continued business.

Relevant phrases

H350 May cause cancer.

R48 Danger of serious damage to health by prolonged exposure.

R49 May cause cancer by inhalation.

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Carc. 1A: Carcinogenicity, Hazard Category 1A

Sources

SDS Prepared by:

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