

Safety data sheet

Printing date: 11.06.2018

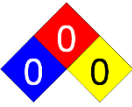

According to 1907/2006/EC (REACH), 1272/2008/EC (CLP),
and US GHS

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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 Electro Minerals Corp.
	Address	1801 Buffalo Avenue Niagara Falls, NY 14302
	Telephone	(716) 278-6600
	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 product is not classified as hazardous according to OSHA regulations within the United States. The product does not have a classification according to the CLP regulation.		
	Hazard	None	
	Pictogram(s)	None	
2.2	Label Elements		
2.2.1	Label Elements According to Regulation (EC) No. 1272/2008 (CLP)		
	The product is not classified as hazardous according to OSHA regulations within the United States. The product does not have a classification according to the CLP regulation.		
	Hazard Pictogram(s)	Not Regulated	Signal Word(s) Not Regulated
	Hazard-determining components of labelling:	None	
	Hazard Statement(s)	Not Regulated	
	Precautionary Statement(s)	Not Regulated	
	Hazard description:		
	NFPA ratings (scale 0 - 4)		Health = 0 Fire = 0 Reactivity = 0
	HMIS-ratings (scale 0 - 4)		Health = 0 Fire = 0 Reactivity = 0
	HMIS Long Term Health Hazard Substances	None	
2.3	Other Hazards		
	PBT: Not applicable.		

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**Results of PBT
and vPvB
assessment** 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

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.

SECTION 6: ACCIDENTAL RELEASE MEASURES

- 6.1 Personal Precautions, Protective Equipment And Emergency Procedures** Avoid formation of dust. Ensure adequate ventilation. Use respiratory protective device against the effects of fumes/dust/aerosol. Wear protective equipment. Keep unprotected persons away.
- 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. Dispose contaminated material as waste according to item 13.
- 6.4 Reference To Other Sections** See Section 7 for information on safe handling.

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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: Information About Storage in One Common Storage Facility: Further information about storage conditions:	No special requirements. Store away from oxidizing agents. Store away from foodstuffs. Do not store together with acids. 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: None

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

Personal protective equipment:

General protective and hygienic measures:

8.2	Exposure Controls	
8.2.2	Personal Protective Equipment:	
	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. Keep away from foodstuffs, beverages and feed.
	Respiratory Protection	Not required under normal conditions of use. For spills, respiratory protection may be advisable. Use suitable respiratory protective device when high concentrations are present.
	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.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information On Basic Physical And Chemical Properties

Appearance	Granulate	Color	White
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

LD/LC50 values relevant for classification:

7631-86-9 silicon dioxide

Oral	LD50	10000 mg/kg (rat)
Dermal	LD50	5000 mg/kg (rat)

Primary Irritant Effect:

On the skin:

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

On the eye:

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

Sensitisation:

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

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):

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

SECTION 12: ECOLOGICAL INFORMATION

12.1 **Toxicity** No data

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.

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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
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)	Substance is not listed.
TSCA (Toxic Substance Control Act)	Substance is listed.
Proposition 65 (California):	
Chemicals known to cause cancer:	Substance is not listed.

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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
TLV (Threshold Limit Value established by ACGIH)	Substances is not listed.	
MAK (German Maximum Workplace Concentration)	Substances is not listed.	
NIOSH-Ca (National Institute for Occupational Safety and Health) Canada	Substances is not listed.	
Canadian Domestic Substances List (DSL)	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.

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.

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

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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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