

Printing date: 11.06.2018

Safety data sheet 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	Fumed Silica				
	GHS Product Identifier	Fumed Silica				
	Chemical Name	Silica				
	Trade Name	See Product Identifier				
	CAS No.	Not available				
	EINECS No.	Not applicable				
	REACH Registration No.	Not available				
1.2	Relevant Identified Uses O	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				
	REACH Registration Company Information					
	Company Identification	WASHINGTON MILLS ELECTRO MINERALS LTD.				
	Address	MOSLEY ROAD, TRAFFORD PARK				
	Postal Code/Location	MANCHESTER M17 1NR, UNITED KINGDOM				
	Telephone	0044 (0)161 848 0271				
	Fax	0044 (0)161 872 2974				
	Further information obtain	ed from:				
	Telephone	+ 0044 (0)161 873 5512				
	E-Mail (expert)	clive.wood@washingtonmills.co.uk				
1.4	Emergency Telephone Nu					
	(800)255-3924 (USA/Canad	la), 813-248-0585 (International)				

SECTION 2: HAZARDS IDENTIFICATION

2.1	Classification O	lassification Of The Substance Or Mixture			
2.1.1	Classification a	ccording	to Regulation (EC) No. 1	272/2008 (CLP))
		ssification	ns are applicable only to O	SHA (USA) regu	ulations and not the specific CLP
	regulation: None				
	Hazard				
	Pictogram(s)	None			
2.2	Label Elements				
2.2.1			ng to Regulation (EC) No		
	The following Ha	zard State	ements are applicable only	according to O	SHA regulations within the United
					(1272/2008/EC) in the EU: None. The
	product is classif	ed and la	abelled according to the CL	P regulation.	
			GHS08		None
	Hazard	None	Not applicable within the	Signal	Not applicable within the EU;
	Pictogram(s)		EU; applicable only for	Word(s)	applicable only for North America.
			North America		
	Hazard-determi	ning com	ponents of labelling:	Not applicable	
					United States (USA)
	Hazard	Not Reg	Julated		Applicable only within the
	Statement(s)				United States (USA)
	Precautionary		ear protective gloves / eye		Applicable only within the
	Statement(s)	P264 W	ash thoroughly after handli	ng.	United States (USA)
	Additional	None.			
	information				
	Hazard descript	ion:			

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	WHMIS- symbols:	$\overline{(\mathbf{f})}$	D2B – Toxic material causing other toxic effects.	
	NFPA ratings		Health $= 0$	
	(scale 0 - 4)	0	Fire = 0	
			Reactivity = 0	
	HMIS-ratings	HEALTH 0	Health = 0	
	(scale 0 - 4)	FIRE 0	Fire = 0	
		REACTIVITY 0	Reactivity = 0	
	HMIS Long Term Health Hazard Substances	None of the ingredients are listed.		
2.3	Other Hazards			
	Results of PBT	PBT PBT: Not applicable.		
	and vPvB assessment	vPvB: Not appl	icable.	

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

0-100 2,5-10	69012-64-2	273-761-1	NA	None	substance with a Community workplace exposure limit
2,5-10	1214 22 4				
	1314-23-4	215-227-2	NA	None	substance with a Community workplace exposure limit
2,5-10	7439-89-6	231-096-4	NA	None	substance with a Community workplace exposure limit
				\diamond	Eye Dam. 1, H318
≤ 2,5	1305-78-8	215-138-9	NA	1	Skin Irrit. 2 H315; STOT SE 3, H335
<	≤ 2,5	≤ 2,5 1305-78-8	≤ 2,5 1305-78-8 215-138-9	≤ 2,5 1305-78-8 215-138-9 NA	

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.				

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Indication Of The 4.3 **Immediate Medical**

No further relevant information available. **Attention And Special Treatment Needed**

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	Ensure adequate ventilation. Avoid formation of dust. Wear protective equipment. Keep unprotected persons away. For large spills, use
	Emergency Procedures	respiratory protective device against the effects of fumes/dust/aerosol.
6.2	Environmental Precautions	Do not allow to enter sewers/ surface or ground water.
6.3	Methods And Material For	Pick up mechanically. Dispose contaminated material as waste
	Containment And Cleaning Up	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

	Precautions For Safe	Prevent formation of dust. Do not dry clean dust covered objects and floors. Wash			
7.1	Handling	thoroughly with plenty of water. Any unavoidable deposit of dust must be regularly removed. Use only in well ventilated areas.			
	Information About	No special measures required.			
	Fire – and explosion protection				
7.2	Conditions For Safe Storage, Including Any Incompatibilities:				
		Store in a cool location.			
	Met by Storerooms and Receptacles:				
	Information About Storage in One	Store away from oxidizing agents. Store away from foodstuffs. Do not store together with acids.			
	Common Storage				
	Facility:				
	Further information	None.			
	about storage conditions:				
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. **Control Parameters** 8.1



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Ingredie	ents with limit va	alues that req	uire monitoring at	the workplace:	
-			TLV (USA)	TLV withdrawn	
	norphous Silica	69012-64-2	EL (Canada)	Long-term value: 4* 1,5** mg/m ³ fume *total; **respirable	
fume		03012-04-2	EV (Canada)	Long-term value: 2 mg/m ³ respirable	
			PEL (USA)	Long-term value: 5 mg/m ³ as Zr	
zirconium dioxide 13			REL (USA)	Short-term value: 10 mg/m ³ Long-term value: 5 mg/m ³ as Zr	
		1314-23-4	TLV (USA)	Short-term value: 10 mg/m³ Long-term value: 5 mg/m³ as Zr	
			EL (Canada)	Short-term value: 10 mg/m³ Long-term value: 5 mg/m³ as Zr	
			EV (Canada)	Long-term value: 1* 5** mg/m ³ as iron;*salts, water-soluble;**welding fume	
Iron		7439-89-6	EV (Canada)	Long-term value: 1* 5** mg/m ³ as iron; *salts, water-soluble; **welding fume	
			PEL (USA)	Long-term value: 5 mg/m ³	
			REL (USA)	Long-term value: 2 mg/m ³	
alcium	oxide	1305-78-8	TLV (USA)	Long-term value: 2 mg/m ³	
			EL (Canada)	Long-term value: 2 mg/m ³	
			EV (Canada)	Long-term value: 2 mg/m ³	
PNEC	s No further relevents No further relevents No further relevents on al information of the second sec	ant informatio	n available.	ig were used as basis.	
Perso	cposure Contro onal protective ral protective a Exposure Con	equipment: and hygienie			
8.2.2	Personal Prote	ective Equipn	nent:		
-	General protective and hygienic measures:	The usua Keep aw the end o	al precautionary me ay from foodstuffs,	asures are to be adhered to when handling chemicals. beverages and feed. Wash hands before breaks and at act with the eyes. Do not inhale dust / smoke / mist. htact with the skin.	
	Respiratory Protection		able. Use suitable r	conditions of use. For spills, respiratory protection may espiratory protective device when high concentrations	
			ear safety glasses.		
	Protection of Hands	Wear pro	otective gloves.		
	Body Protection	on Protectiv	e work clothing.		
_			-	on available. See Section 7 for additional information.	

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	



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	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)	2,65 g/cm ³
	Solubility (Water)	Insoluble	Solubility (Other)	Not available
	Partition Coefficient (N- Octanol/Water)	Not available	Viscosity (mPa.s)	Not available
9.2	Other Information	Volatile Organic Chemical (VOC) Content – Not Available.		

SECTION 10: STABILITY AND REACTIVITY

10.1 10.2	Reactivity 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)	Possible in traces.

SECTION 11: TOXICOLOGICAL INFORMATION

1 Information on Toxicological Effects			
Acute toxicity:			
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	No data		
information:			

SECTION 12: ECOLOGICAL INFORMATION

12.1	Toxicity	No data		
	Aquatic toxicity:	No further relevant information available.		
12.2	Persistence and Degradability	dability 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:	Not known to be hazardous to water.		
12.5	Results of PBT and vPvB	PBT: Not applicable.		
	Assessment	vPvB: Not applicable.		
12.6	Other Adverse Effects			

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



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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	

(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.

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 None of the ingredients are listed. Section 355 (extremely hazardous substances) Section 313 (Specific toxic chemical listings) None of the ingredients are listed. TSCA (Toxic Substance Control Act) All ingredients are listed. Proposition 65 (California): Chemicals known to cause cancer: None of the ingredients are listed. Chemicals known to cause reproductive None of the ingredients are listed. toxicity for females: Chemicals known to cause reproductive None of the ingredients are listed. toxicity for males: Chemicals known to cause developmental None of the ingredients are listed. toxicity: **Carcinogenic Categories** EPA (Environmental Protection Agency) None of the ingredients are listed. 69012-64-2 Silica-Amorphous Silica fume IARC (International Agency for Research on 3 Cancer)

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1314-23-4 zirconium dioxide A4
None of the ingredients are listed.
None of the ingredients are listed.
All ingredients are listed.
None of the ingredients are listed.
1305-78-8 calcium oxide
e regulations with hazard criteria of the Controlled Products nation required by the Controlled Products Regulations
None of the ingredients are 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

ELINCS: European List of Notified 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)

Sources

SDS Prepared by:



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