## WASHINGTON MILLS

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

Printing date: 11.06.2018

Revision: 11.06.2018

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

1.1	Product Identifier	Durazon MCG
	GHS Product Identifier	Durazon MCG
	Chemical Name	Mixture (High Purity Zirconia)
	Trade Name	See Product Identifier
	CAS No.	Mixture
	EINECS No.	Mixture
	REACH Registration No.	Not available
1.2	Relevant Identified Uses (	Of The Substance Or Mixture And Uses Advised Against
	No further relevant informat	on available.
	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	(716) 278-6600
	E-Mail (Competent Person)	info@washingtonmills.com
1.4	Emergency Telephone Nu	mber – ChemTel
	(800)255-3924 (USA/Canad	da), 813-248-0585 (International)

#### **SECTION 2: HAZARDS IDENTIFICATION**

2.1	Classification C	of The Substance	e Or Mixture		
2.1.1 2.2 2.2.1	The product is no The product is no <b>Label Elements</b> Labelling accor This product doe	ot classified as ha ot classified as ha ding to Regulati s not have a clas	azardous according on (EC) No 1272/2 sification according	g to the Global g to the CLP re 2008 g to the CLP re	-
	Hazard Pictogram(s)	Not Regulated		Signal Word(s)	Not Regulated
	Hazard-determi Hazard Statement(s) Hazard descript WHMIS- symbols: NFPA ratings (scale 0 - 4)	description:    -  Not hazardous under WHMIS.    s:		None	
	HMIS-ratings (scale 0 - 4)	HEALTH 0 FIRE 0 REACTIVITY 0	Health = 0 Fire = 0 Reactivity = 0		
2.3	HMIS Long Term Health Hazard Substances Other Hazards	None of the ing	redients are listed.		
	Results of PBT and vPvB assessment	PBT: Not applic vPvB: Not appli			

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# SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures Description: Mixtu Dangerous Comp		nces listed below	v with nonhaza	rdous additi	ons.
Hazardous Ingredient(s)	%W/W	CAS No.	EC No.	Hazard Pie	ctogram(s) and Hazard Statement(s)
zirconium dioxide	50-100	1314-23-4	215-227-2	None	substance with a Community workplace exposure limit
Silica, fused	2,5-10	6676-86-0	262-373-8	None	substance with a Community workplace exposure limit
hafnium dioxide	≤ 2,5	12055-23-1	235-013-2	None	substance with a Community workplace exposure limit

#### 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 Agents	Use fire extinguishing methods suitable to surrounding conditions.
	Unsuitable Extinguishing Agents	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,	Ensure adequate ventilation. Avoid formation of dust. For large spills,
	Protective Equipment And	wear protective clothing. For large spills, use respiratory protective device
	Emergency Procedures	against the effects of fumes/dust/aerosol.
6.2	Environmental Precautions	Do not allow to enter sewers/ surface or ground water.



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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. 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 S	torage, Including Any Incompatibilities:
	Requirements to be	No special requirements.
	Met by Storerooms and Receptacles:	
	Information About Storage in One	Do not store together with acids. Store away from foodstuffs. Store away from oxidising agents.
	Common Storage Facility:	
	Further information about storage	None.
	conditions:	
7.3	Specific End Use(s)	No further relevant information available.

#### **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

Ingredients with limi	t values that requ	uire monitoring at	the workplace:
		PEL (USA)	Long-term value: 5 mg/m³ as Zr
		REL (USA)	Short-term value: 10 mg/m³ Long-term value: 5 mg/m³ as Zr
zirconium dioxide	1314-23-4	TLV (USA)	Short-term value: 10 mg/m <sup>3</sup> Long-term value: 5 mg/m <sup>3</sup> as Zr
		EL (Canada)	Short-term value: 10 mg/m³ Long-term value: 5 mg/m³ as Zr
		PEL (USA)	see Quartz listing
Cilico fuend	60676-86-0	TLV (USA)	TLV withdrawn
Silica, fused	00070-00-0	EV (Canada)	Long-term value: 0,1 mg/m <sup>3</sup> respirable
		PEL (USA)	Long-term value: 0,5 mg/m <sup>3</sup> as Hf
	12055-23-1	REL (USA)	Long-term value: 0,5 mg/m³ as Hf
hafnium dioxide	12000-20-1	TLV (USA)	Long-term value: 0,5 mg/m <sup>3</sup> as Hf
		EL (Canada)	Long-term value: 0,5 mg/m <sup>3</sup> as Hf



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PNECs No further relevant information available.

Additional information: The lists valid during the making were used as basis.

8.2	Exposure Contro	bls
8.2.2	Personal Protect	ive Equipment:
	General protective and hygienic measures:	The usual precautionary measures are to be adhered to when handling chemicals. Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work. Do not inhale dust / smoke / mist.
	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.
8	Eye Protection	Safety glasses.
	Protection of Hands	Wear protective gloves.
	Body Protection	Not required under normal conditions of use. Protection may be required for spills.
	Limitation and supervision of exposure into the environment	No special requirements.
	Risk Management Measures	No special requirements.

#### **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

9.1	Information On Basic	c Physical And Chemica	I Properties	
	Appearance	Granulate	Color	Beige
	Odor	Odourless	Odor Threshold (ppm)	Not available
	Melting Point (°C) / Freezing Point (°C)	4784° F/ 2640 °C	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 at 20 °C:	5,8 g/cm <sup>3</sup>
	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 i	nformation available.	

#### SECTION 10: STABILITY AND REACTIVITY

- Reactivity 10.1
- 10.2 Chemical Stability

**Thermal Decomposition / conditions** No decomposition if used according to specifications.



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oxidising agents.

Possible in traces.

Reacts with strong acids and alkali. Reacts with strong

No further relevant information available.

No further relevant information available.

#### to be avoided:

- 10.3 **Possibility of Hazardous Reactions**
- 10.4 **Conditions To Avoid**
- 10.5 **Incompatible Materials**
- 10.6 Hazardous Decomposition Product(s)

#### **SECTION 11: TOXICOLOGICAL INFORMATION**

11.1	Information on Toxicological	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	The product is not subject to classification according to the			
	information:	calculation method of the General EU Classification			
		Guidelines for Preparations as issued in the latest version.			
		When used and handled according to specifications, the			
		product does not have any harmful effects to our experience			
		and the information provided to us.			

#### **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:	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	No further relevant information available.

#### **SECTION 13: DISPOSAL CONSIDERATIONS**

13.1	Waste Treatment Methods Recommendation	Contact waste processors for recycling information. Smaller quantities can be disposed of with household waste. 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

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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**

Safety, Health And Environmental Regulations/Legislation Specific For The Substance Or Mixture United States (USA) SARA									
							Section 355 (extremely hazardous substances)	None of the ingredients are listed.	
							SARA 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 toxicity for females:	None of the ingredients are listed.								
Chemicals known to cause reproductive toxicity for males:	None of the ingredients are listed.								
Chemicals known to cause developmental toxicity:	None of the ingredients are listed.								
Carcinogenic Categories									
EPA (Environmental Protection Agency)	None of the ingredients are listed.								
IARC (International Agency for Research on Cancer)	60676-86-0 Silica, fused	3							
TLV (Threshold Limit Value established by ACGIH)	zirconium dioxide	A							
MAK (German Maximum Workplace Concentration)	None of the ingredients are listed.								
NIOSH-Ca (National Institute for Occupational Safety and Health)	60676-86-0 Silica, fused								
Canada									
Canadian Domestic Substances List (DSL)	All ingredients are listed.								
Canadian Ingredient Disclosure list (limit 0.1%)	None of the ingredients are listed.								
Canada Ingredient Disclosure list (limit 1%)	60676-86-0 Silica, fused								
Other regulations, limitations and prohibitive									
Substances of very high concern (SVHC) according to REACH, Article 57	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

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