WASHINGTON MILLS

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

Printing date: 08.06.2018

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

1.1	Product Identifier GHS Product Identifier	Duralum ATZ II C, ATZ II W, ATZ II W HBD, ATZ II W SK, ATZ II R/K, BTZ Duralum ATZ II C, ATZ II W, ATZ II W HBD, ATZ II W SK, ATZ II R/K, BTZ		
	Chemical Name	Alumina Titania Zirconia		
	Trade Name	See Product Identifier		
	CAS No.	Mixture		
	EINECS No.	Mixture		
	REACH Registration No.	Not available		
1.2		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 O	f The Substanc	e Or Mixture			
2.1.1	The product is no	Classification according to Regulation (EC) No. 1272/2008 (CLP) The product is not classified as hazardous according to OSHA GHS regulation within the United States. The product is not classified as hazardous according to the CLP regulation.				
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-determining components of labelling: None					
	Hazard	Not Regulated				
	Statement(s) Additional information	None				
	Hazard descript	ion:				
	NFPA ratings (scale 0 - 4)	000	Health = 0 Fire = 0 Reactivity = 0			
	HMIS-ratings (scale 0 - 4)	HEALTH 0 FIRE 0 REACTIVITY 0	Health = 0 Fire = 0 Reactivity = 0			
	HMIS Long Term Health Hazard Substances	None of the ing	redients are listed.			
2.3	Other Hazards					
	Results of PBT	PBT: Not applic				
	and vPvB assessment	vPvB: Not applicable.				

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures Description: Mixture of substances listed below with nonhazardous additions. Dangerous Components:					
Hazardous Ingredient(s)	%W/W	CAS No.	EC No.	Hazard Pictogram(s)	Hazard Statement(s)
aluminium oxide	50-100	1344-28-1	215-691-6	None	substance with a Community workplace exposure limit
zirconium dioxide	25-50	1314-23-4	215-227-2	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:	Provide fresh air; consult doctor in case of complaints.			
		Brush off loose particles from skin. Wash with soap and water. If skin irritation is experienced, consult a doctor.			
· · · · ·		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	Use fire extinguishing methods suitable to surrounding conditions.
	Media	
	Unsuitable Extinguishing	None.
	Media	
5.2	Special Hazards Arising	No further relevant information available.
	From The Substance Or	
	Mixture	
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,	Avoid formation of dust. For large spills, use respiratory protective
	Protective Equipment And	device against the effects of fumes/dust/aerosol. For large spills, wear
	Emergency Procedures	protective clothing. Ensure adequate ventilation
6.2	Environmental Precautions	No special measures required.



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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	Use only in well ventilated areas. Prevent formation of dust. Do not dry clean dust
7.1	Handling	covered objects and floors. Wash thoroughly with plenty of water. Any unavoidable deposit of dust must be regularly removed.
	Information About	No special measures required.
	Fire – and explosion protection	
7.2	Conditions For Safe S	torage, Including Any Incompatibilities:
	Requirements to be	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 about storage conditions:	Store in cool, dry conditions in well sealed receptacles.
7.3	Specific End Use(s)	No further relevant information available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

gredients with limit v	values that req	uire monitoring at	the workplace:
		PEL (USA)	Long-term value: 15*; 15** mg/m ³ *Total dust; ** Respirable fraction
		REL (USA)	Long-term value: 10* 5** mg/m ³ as Al*Total dust**Respirable/pyro powd./welding f.
aluminium oxide	1344-28-1	TLV (USA)	Long-term value: 1* mg/m ³ as AI; *as respirable fraction
		EL (Canada)	Long-term value: 1,0 mg/m ³ respirable, as Al
		EV (Canada)	Long-term value: 10 mg/m ³ total dust
		PEL (USA)	Long-term value: 5 mg/m ³ as Zr
		REL (USA)	Short-term value: 10 mg/m ³ Long-term value: 5 mg/m ³ as Zr
zirconium dioxide	1314-23-4	TLV (USA)	Short-term value: 10 mg/m ³ Long-term value: 5 mg/m ³ as Zr
		EL (Canada)	Short-term value: 10 mg/m ³ Long-term value: 5 mg/m ³ as Zr
Hafnium dioxide	7440-58-6	PEL (USA)	Long-term value: 0,5 mg/m ³ as Hf
	0-06-0447	REL (USA)	Long-term value: 0,5 mg/m³ as Hf

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			TLV (USA)	Long-term value: 0,5 mg/m ³		
				as Hf Long-term value: 0,5 mg/m ³		
			EL (Canada)	as Hf		
			EV (Canada)	Long-term value: 0,5 mg/m ³		
	s No further relevant s No further relevant					
				g were used as basis.		
8.2	Exposure Controls					
8.2.2	Personal Protect	tive Equ	ipment:			
	General	The us	ual precautionary n	neasures are to be adhered to when handling		
	protective and			m foodstuffs, beverages and feed. Wash hands		
	hygienic		before breaks and at the end of work. Do not inhale dust / smoke / mist.			
measures: Avoid contact with the eyes and skin.						
			I conditions of use. Use suitable respiratory			
	Protection protective device when high concentrations are present. For spills,					
	Eye Protection	respiratory protection may be advisable. Wear safety glasses.				
8	Lyerrotection	יידמו שמובני צומששבי.				
	Protection of	Wear p	rotective gloves.			
	Hands	wear p				
	Body Protection		uired under norma	I conditions of use. Protection may be required for		
	spills.					
	Limitation and	No further relevant information available.				
supervision of						
exposure into						
	the environment					
	Risk Monogomont	No special requirements.				
Management Measures						

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Granulate	Color	Grey
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)	4,4 g/cm ³
Solubility (Water)	Insoluble	Solubility (Other)	Not available
Partition Coefficient (N- Octanol/Water)	Not available	Viscosity (mPa.s)	Not available
Other Information	Volatile Organic Chemical (VOC) Content – Not Available.		



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SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

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10.2	Chemical Stability	
	Thermal Decomposition / conditions to be avoided:	No decomposition if used and stored 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:	
	Primary Irritant Effect:	
	On the skin:	No irritant effect.
	On the eye:	Slight irritant effect on eyes.
	Sensitisation:	No sensitizing effects known.
	Additional toxicological	When used and handled according to specifications, the
	information:	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.

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	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.
	Uncloaned Deckering	wastes. Residual materiais should be treated as nazardous.
	Uncleaned Packaging:	
	Recommendation:	Disposal must be made according to official regulations.

SECTION 14: TRANSPORT INFORMATION

Land Transport (AD	R/RID) (c)(d)	Land Transport (Wit	hin USA) (b)(d)	
UN Number	None	UN Number	None	

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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

USA				
SARA				
Section 355 (extremely hazardous substances)	None of the ingredients are listed.			
SARA 313 (Specific toxic chemical listings)	Aluminum oxide listing is only relevant to fibrous formation and is not applicable to the product as supplied.			
TSCA (Toxic Substance Control Act) Proposition 65 (California):	All ingredients are listed.			
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)	None of the ingredients are listed.			
TLV (Threshold Limit Value established by	1344-28-1 aluminium oxide A4			
ACGIH)	1314-23-4 zirconium dioxide A4			
MAK (German Maximum Workplace Concentration)	1344-28-1 aluminium oxide 2			
NIOSH-Ca (National Institute for Occupational Safety and Health)	None of the ingredients are listed.			
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%)	1344-28-1 aluminium oxide			

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15.2	Chemical Safety Assessment	A Chemical Safety Assessment has not been carried
	Substances of very high concern (SVHC) according to REACH, Article 57	None of the ingredients are listed.
	Other regulations, limitations and prohibit	
		7440-58-6 hafnium dioxide

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:

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- 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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