WASHINGTON MILLS

Safety data sheet According to 1907/2006/EC (REACH), 1272/2008/EC (CLP), US GHS, Canadian Hazardous Products Regulation (WHMIS 2015)

Printing date: 09.07.2018

Revision: 09.07.2018

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

1.1	Product Identifier	BLASTITE, BLITZBLAST, DURATRED, FASTBLAST, NIAGARA BLAST, EXOBLAST, STANDARD SANDS, DURALUM, DURABLU
	GHS Product Identifier	BLASTITE, BLITZBLAST, DURATRED, FASTBLAST, NIAGARA BLAST, EXOBLAST, STANDARD SANDS, DURALUM G52E, G52E P, G52E RK, G82, G82P, GW, GW VIT, HBD, HC, K5, LBD, RF, DCF, LT, LTR, C ART, C AR RK, C PRT, C PR RK, LT C AT, LT C ART, LT C AR RK, LT C PT, LT C PRT, XA, SK, EB, PB, REF/P, PC, TP RK, WP,BFA, G52, LT CA, LT
		CP, HFST DURABLU C ABRT, C PBRT, LT C ABRT, LT C PBRT, C A BR RK, C PBR RK, LT C ABR RK, LT CPBR RK, LT, GW, LT C ABR, LT C PBR
	Chemical Name	Mixture (Brown Aluminum Oxide)
	Trade Name	See Product Identifier
	CAS No.	Mixture
	EINECS No.	Mixture
	REACH Registration No.	
1.2		Of The Substance Or Mixture And Uses Advised Against
	Identified Use(s)	Consult the supplier.
1.3	Uses Advised Against Details Of The Supplier Of	Users are recommended to seek further advice.
1.3	Company Identification	Washington Mills
	Address	1801 Buffalo Avenue
		Niagara Falls, NY 14302
	Telephone	1-800-828-1666
	E-Mail (Competent Person)	
	REACH Registration Com	pany 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	
	Telephone E-Mail (expert)	+ 0044 (0)161 873 5512 clive.wood@washingtonmills.co.uk
1.4	E-mail (expert) Emergency Telephone Nu	
		la), 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 the Globally Harmonized System (GHS).
	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.
	Additional information:
	Product has less than 0.1% inhalable dust containing known and/or suspect carcinogens per established
	guidelines, and is therefore not classifiable as a carcinogen.
	There are no other hazards not otherwise classified that have been identified.
	0% of the mixture consists of component(s) of unknown toxicity.
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 Not regulated Signal Not regulated
	Pictogram(s) Word(s)
	Hazard-determining components of labelling: None
	Hazard Not Regulated

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	0		, NIAGARA BLAST, EXOBLAST, STANDARD SANDS, I	
DEA	Statement(s)	INCED, I ADIDEADI	, MAGANA BEACT, EXOBERCT, CTANDARD GANDO, I	
	NFPA ratings		Health = 0	
1	(scale 0 - 4)		Fire = 0	
	(30ale 0 - 4)		Reactivity = 0	
			Reactivity = 0	
	HMIS-ratings	HEALTH 0	Health = 0	
	(scale 0 - 4)	FIRE 0	Fire = 0	
		REACTIVITY 0	Reactivity = 0	
	HMIS Long	NEAGINITI O		
	Term Health			
	Hazard	None of the ing	redients are listed.	
<u></u>	Substances			
2.3	Other Hazards			
	Results of PBT	PBT: Not app		
	and vPvB	vPvB: Not app	plicable.	
	assessment		•	

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredient(s)	%W/W	CAS No	D. EC No.	REACH Registration No.	Hazard Pi	ictogram(s) and Hazard Statement(s)
Aluminum Oxide	>90	1344-28	-1 215-691-6	NA	None	Substance with a Community workplace exposure limit
Silicon dioxide	<5	7631-86	-9 231-545-4	NA	None	Substance with a Community workplace exposure limit
Titanium Dioxide	<5	13463-6	7-7 236-675-5	NA	None	Substance with a Community workplace exposure limit
Diiron trioxide / iron (III) oxide	<5	1309-37	-1 215-168-2	NA	None	Substance with a Community workplace exposure limit
Dangerous Compon	ents (Alte	rnative Cla	ssifications):			
Hazardous Ingredient(s)		%W/W	CAS No.	Hazard Pict	ogram(s) an	d Hazard Statement(s)
Titanium Dioxide		<5	13463-67-7	3.6/2 H351		

SECTION 4: FIRST AID MEASURES

4.1	Description of First Aid	d 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.



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No further relevant information available.

Hazards

4.3 **Indication Of The 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 6.2	Personal Precautions, Protective Equipment And Emergency Procedures Environmental Precautions	Avoid formation of dust. For large spills, wear protective clothing. For large spills, use respiratory protective device against the effects of fumes/dust/aerosol. Ensure adequate ventilation. No special measures requied.
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

	Precautions For Safe	Any unavoidable deposit of dust must be regularly removed. Use only in well
7.1	Handling	ventilated areas. Do not dry clean dust covered objects and floors. Wash thoroughly with plenty of water. Prevent formation of dust.
	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	Store away from oxidizing agents. Store away from foodstuffs. Do not store together with acids.
	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

Additional information about design of technical facilities: No further data; see item 7.

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	quire monitoring at t PEL (USA)	Long-term value: 15*; 15** mg/m ³
	PEL (USA)	
	. ,	*Total dust; ** Respirable fraction
	REL (USA)	Long-term value: 10* 5** mg/m ³
	REL (USA)	As Al *Total dust **Respirable/pyro powd./welding f.
1344-28-1	TLV (USA)	Long-term value: 1* mg/m ³
		as AI; *as respirable fraction Long-term value: 1,0 mg/m ³
	EL (Canada)	respirable, as Al
		Long-term value: 10 mg/m ³
	EV (Canada)	total dust
7631-86-9	NIOSH REL (USA)	Long-term value: 6 mg/m ³
7031-00-3	OSHA PEL (USA)	Long-term value: 80 mg/m ³
	PEL (USA)	Long-term value: 15* mg/m ³
		*total dust See Pocket Guide App. A
	REL (USA)	Long-term value: 10 mg/m ³
13463-67-7	TLV (USA)	withdrawn from NIC
		Long-term value: 10* 3** mg/m ³
	EL (Canada)	*total dust; **respirable fraction; IARC 2B
	EV (Canada)	Long-term value: 10 mg/m ³
		total dust
	PEL (USA)	Long-term value: 10* 15** 5***mg/m ³ *Fume; Rouge: **Total dust, ***respirable
		Long-term value: 5 mg/m ³
	REL (USA)	Dust & fume, as Fe
) 4000 07 4	TLV (USA)	Long-term value: 5* mg/m ³
1309-37-1	120 (00A)	*as respirable fraction
		Short-term value: 10** mg/m ³
	EL (Canada)	Long-term value: 5* 10*** 3**** mg/m ³ *dust & fume ** fume; Rouge: ***total dust ****resp.
		Long-term value: 5* 10** mg/m ³
	EV (Canada)	*respirable, including Rouge; **total dust
on: The lists va	alid during the making	were used as basis.
trols		
/e equipment	:	
e and hygieni	ic measures:	
Controls		
rotective Equ	lipment:	
	-	neasures are to be adhered to when handling
		efore breaks and at the end of work. Immediately
		aminated clothing. Keep away from foodstuffs,
	ges and feed.	
		otective device when high concentrations are
		tory protection may be advisable.
	· · · ·	
tion Wear s	afety glasses.	
of Wear p	rotective gloves.	
1	<u> </u>	
	uired under normal	conditions of use. Protection may be required fo
spills.	her relevant informa	
	ction Not rea	

Safety data sheet According to 1907/2006/EC (REACH), 1272/2008/EC (CLP), US GHS, Canadian Hazardous Products Regulation (WHMIS 2015) ED, FASTBLAST, NIAGARA BLAST, EXOBLAST, STANDARD SANDS,

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_	BLASTITE, BLITZBLAST, DURATRE	ED, FASTBLAST, NIAGARA BLAST, EXOBLAST, STANDARD SANDS, DURALUM, DURABLU (See Page
	exposure into	
	•	
	the environment	
	Risk	No further relevant information available. See Section 7 for additional
	Management	linformation.
	•	
	Measures	

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Solid granular product	Color	Brown
Odor	Odorless	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)	4892 ° F / 2700 ° C
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
Other Information	Volatile Organic Chem	ical (VOC) Content – Not 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	As the product is supplied it is not capable of dust explosion; however enrichment with fine dust causes risk of dust explosion.
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)	Toxic metal oxide smoke.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Inf	ormation on Toxic	ological Effects						
LD/LC50 val	LD/LC50 values relevant for classification:							
13463-67-7 1	13463-67-7 titanium dioxide							
Oral	LD50	> 20000 mg/kg (rat)						
Dermal	LD50	>10000 mg/kg (rabbit)						
Inhalative	LC50/4 h	> 6,82 mg/l (rat)						
Primary Irritant Effect:								
On the skin:		Slight irritant effect on skin and mucous membranes.						
On the eye:		Slight irritant effect on eyes.						
Se	nsitisation:	No sensitizing effects known.						
Ad	ditional toxicologi	cal The substance is not subject to classification according to the						
inf	ormation:	latest version of the EU lists.						
CMR effects (carcinogenity,								
mutagenicity, and toxicity for		kicity for carcinogen.						
rep	production):							

SECTION 12: ECOLOGICAL INFORMATION

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SECTION 13: DISPOSAL CONSIDERATIONS

vPvB: Not applicable.

No further relevant information available.

13.1	Waste Treatment Methods	
	Recommendation	Contact manufacturer for recycling information. Contact waste processors for recycling information. On the basis of the necessary technical regulations and after consultation with the disposal agent and the relevant authorities, can be disposed of with domestic waste or incinerated with domestic waste.
	Uncleaned Packaging:	
	Recommendation:	Packaging may be reused or recycled after cleaning. 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

(c)- Consult with transport provider.

Assessment

Other Adverse Effects

12.6

(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



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	Safety data sheet							
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	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 fibro and is not applicable to the product as supplie						
	TSCA (Toxic Substance Control Act) Proposition 65 (California):	All ingredients are listed.						
	Chemicals known to cause cancer:	References to chemical components listed below are based on unbound respirable particles and are not generally applicable to product as supplied. 13463-67-7 titanium dioxide						
	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)	7631-86-9 silicon dioxide 13463-67-7 titanium dioxide 1309-37-1 diiron trioxide / iron (III) oxide	3 2B 3					
	TLV (Threshold Limit Value established by ACGIH)	1344-28-1 aluminium oxide 13463-67-7 titanium dioxide 1309-37-1 diiron trioxide / iron (III) oxide	A4 A4 A4					
	MAK (German Maximum Workplace Concentration)	1344-28-1 aluminium oxide 13463-67-7 titanium dioxide	2 3A					
	NIOSH-Ca (National Institute for Occupational Safety and Health)	13463-67-7 titanium dioxide						
	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 7631-86-9 silicon dioxide 1309-37-1 diiron trioxide / iron (III) oxide						
	. .	Other regulations, limitations and prohibitive regulations						
	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



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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 Abstract Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent

Sources

SDS Prepared by: ChemTel Inc. 1305 North Florida Avenue Tampa, Florida USA 33602-2902 Toll Free America 1-888-255-3924 Intl. +01 813-248-0573 Website: www.chemtelinc.com