

According to 1907/2006/EC (REACH), 1272/2008/EC (CLP), US Printing date: 09.07.2018 GHS, Canadian Hazardous Products Regulation (WHMIS 2015)

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

BLASTITE, BLITZBLAST, DURATRED, FASTBLAST, NIAGARA BLAST, EXOBLAST, 1.1

Product Identifier STANDARD SANDS, DURALUM, DURABLU

BLASTITE, BLITZBLAST, DURATRED, FASTBLAST, NIAGARA BLAST, EXOBLAST,

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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

GHS Product Identifier RK, LT C PT, LT C PRT, XA, SK, EB, PB, REF/P, PC, TP RK, WP,BFA, G52, LT CA, LT

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. 01-2119529248-35-0043

1.2 Relevant Identified Uses Of The Substance Or Mixture And Uses Advised Against

Identified Use(s) Consult the supplier.

Uses Advised Against Users are recommended to seek further advice.

1.3 **Details Of The Supplier Of** The Safety Data Sheet

> **Washington Mills** Company Identification Address 1801 Buffalo Avenue Niagara Falls, NY 14302

1-800-828-1666 Telephone

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 0044 (0)161 872 2974 Fax

Further information obtained from:

Telephone + 0044 (0)161 873 5512

E-Mail (expert) clive.wood@washingtonmills.co.uk

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 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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Statement(s) NFPA ratings (scale 0 - 4)



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

None of the ingredients are listed.

Substances 2.3 Other Hazards

Results of PBT PBT: Not applicable. vPvB: Not applicable.

assessment

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Hazardous Ingredient(s)	%W/W	CAS No.	EC No.	REACH Registration No.		ctogram(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	13463-67-7	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 Components (Alternative Classifications):

Hazardous Ingredient(s)	%W/W	CAS No.	Hazard Pictogram(s) and Hazard Statement(s)
Titanium Dioxide	<5	13463-67-7	3.6/2 H351

3.3 Additional Information: Non-classification as a carcinogen is based on non-inhalable form of product. IARC listings for titanium dioxide note that substance must be respirable.

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

Slight irritant effect on eyes.

And Delayed

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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	No further relevant information available.
	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, Protective Equipment And Emergency Procedures	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.
6.2	Environmental Precautions	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

7.3	Specific End Use(s)	No further relevant information available.
	about storage conditions:	
	Further information	None.
	Facility:	
	Common Storage	
	Storage in One	with acids.
	Met by Storerooms and Receptacles: Information About	Store away from oxidizing agents. Store away from foodstuffs. Do not store together
	Requirements to be	No special requirements.
7.2		torage, Including Any Incompatibilities:
	Fire – and explosion protection	
	Information About	No special measures required.
7.1	Precautions For Safe Handling	Any unavoidable deposit of dust must be regularly removed. Use only in well ventilated areas. Do not dry clean dust covered objects and floors. Wash thoroughly with plenty of water. Prevent formation of dust.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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

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Control Parameters Ingredients with limit values that require monitoring at the workplace: Long-term value: 15*; 15** mg/m³ PEL (USA) *Total dust; ** Respirable fraction Long-term value: 10* 5** mg/m³ REL (USA) As Al *Total dust **Respirable/pyro powd./welding f. Long-term value: 1* mg/m³ Aluminum Oxide 1344-28-1 TLV (USA) as Al; *as respirable fraction Long-term value: 1,0 mg/m³ EL (Canada) respirable, as Al Long-term value: 10 mg/m³ EV (Canada) total dust NIOSH REL (USA) Long-term value: 6 mg/m³ 7631-86-9 Silicon dioxide OSHA PEL (USA) Long-term value: 80 mg/m³ Long-term value: 15* mg/m³ PEL (USA) *total dust REL (USA) See Pocket Guide App. A Long-term value: 10 mg/m³ TLV (USA) withdrawn from NIC Titanium Dioxide 13463-67-7 Long-term value: 10* 3** mg/m3 EL (Canada) *total dust; **respirable fraction; IARC 2B Long-term value: 10 mg/m³ EV (Canada) total dust Long-term value: 10* 15** 5***mg/m³ PEL (USA) *Fume; Rouge: **Total dust, ***respirable Long-term value: 5 mg/m³ REL (USA) Dust & fume, as Fe Long-term value: 5* mg/m³ Diiron trioxide / iron (III) TLV (USA) 1309-37-1 *as respirable fraction oxide Short-term value: 10** mg/m³ Long-term value: 5* 10*** 3**** mg/m³ EL (Canada) *dust & fume ** fume; Rouge: ***total dust ****resp. Long-term value: 5* 10** mg/m³ EV (Canada) *respirable, including Rouge; **total dust Additional information: The lists valid during the making were used as basis

Additio	onal information: The lists valid during the making were used as basis.				
Perso	8.2 Exposure Controls Personal protective equipment: General protective and hygienic measures:				
8.2	Exposure Contro	ols			
8.2.2	Personal Protect	ive Equipment:			
	General protective and hygienic measures: The usual precautionary measures are to be adhered to when hand chemicals. Wash hands before breaks and at the end of work. Imm remove all soiled and contaminated clothing. Keep away from food beverages and feed.				
Respiratory Use suitable respiratory protective device w		Use suitable respiratory protective device when high concentrations are present. For spills, respiratory protection may be advisable.			
Eye Protection Wear safety glasses.		Wear safety glasses.			
	Protection of Hands Wear protective gloves.				
	Body Protection Not required under normal conditions of use. Protection may be require spills.				
	Limitation and supervision of	No further relevant information available.			

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 to iii L, Beii Ebento i, Boith iii	es, into i bento i, tunto i utiti bento i, exoberto i, o mulbruto o utibo, botti tecom, botti tbeo (occi i ugo i)
exposure into	
the environmen	
Risk	No further relevant information available. See Section 7 for additional
Management	information.
Measures	

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1	Information On Basic	Physical And Chemic	al 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
9.2	Other Information	Volatile Organic Chemi	cal (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	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 Info	11.1 Information on Toxicological Effects		
LD/LC50 values relevant for classification:			1:
13463-67-7 t	13463-67-7 titanium dioxide		
Oral	LD50	> 20000 m	ng/kg (rat)
Dermal	LD50	>10000 m	g/kg (rabbit)
Inhalative	LC50/4 h	> 6,82 mg/	/I (rat)
Pri	mary Irritant Effec	t:	
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
info	ormation:		latest version of the EU lists.
CMR effects (carcinogenity,		genity,	Product is in non-inhalable form and is nonclassifiable as a
mu	itagenicity, and to	cicity for	carcinogen.
rep	production):		

SECTION 12: ECOLOGICAL INFORMATION

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12.1 Toxicity No data

Aquatic toxicity: No further relevant information available.

12.2 Persistence and Degradability Inorganic product, is not eliminable from water by means of

biological cleaning processes.

12.3 Bioaccumulative Potential Does not accumulate in organisms.
 12.4 Mobility in Soil Does not accumulate in organisms.
 No further relevant information available.

Additional ecological information:

General notes: Generally not hazardous for water. Due to consistence and the

low water solubility of the product a bioavailability is not probable.

Due to available data on eliminability/decomposition and bioaccumulation potential a prolonged damage of the

environment is unlikely.

12.5 Results of PBT and vPvB

Assessment

12.6 Other Adverse Effects

PBT: Not applicable. **vPvB:** Not applicable.

No further relevant information available.

SECTION 13: DISPOSAL CONSIDERATIONS

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 U	(SA) (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)
Sea Transport (IMDG) (c) UN Number	None	Air Transport (ICAO/IATA) UN Number) (c) (d) None
. , , , ,	None Not classified as dangerous for transport.	• •	
UN Number	Not classified as	UN Number	None Not classified as dangerous for
UN Number Proper Shipping Name	Not classified as dangerous for transport.	UN Number Proper Shipping Name	None Not classified as dangerous for transport.
UN Number Proper Shipping Name Transport Hazard Class(es)	Not classified as dangerous for transport. None	UN Number Proper Shipping Name Transport Hazard Class(es)	None Not classified as dangerous for transport. None
UN Number Proper Shipping Name Transport Hazard Class(es) Packing Group	Not classified as dangerous for transport. None None	UN Number Proper Shipping Name Transport Hazard Class(es) Packing Group	None Not classified as dangerous for transport. None None 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



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	according to REACH, Article 57	· ·
15.2	Chemical Safety Assessment	A Chemical Safety Assessment has not been carried

None of the ingredients are listed.

Substances of very high concern (SVHC)

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

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