

Safety data sheet

According to 1907/2006/EC (REACH), 1272/2008/EC (CLP), US
Printing date: 03.04.2018 GHS, Canadian Hazardous Products Regulations (WHMIS 2015)

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

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

Product Identifier DURALUM, DURABLU

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

Revision: 03.04.2018

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

CP

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

Company Identification
Address

Washington Mills
1801 Buffalo Avenue
Niagara Falls, NY 14302

Telephone 1-800-828-1666

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 obtained from:

Telephone + 0044 (0)161 873 5512

E-Mail (expert) <u>clive.wood@washingtonmills.co.uk</u>

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

Statement(s)

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NFPA ratings (scale 0 - 4)



Health = 0Fire = 0Reactivity = 0

HMIS-ratings (scale 0 - 4)

0 0 REACTIVITY 0

Health = 0Fire = 0Reactivity = 0

HMIS Long Term Health Hazard

None of the ingredients are listed.

Substances 2.3 **Other Hazards**

Results of PBT PBT: Not applicable. and vPvB 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

Hazards No further relevant information available.

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4.3 Indication Of The

Immediate Medical
Attention And Special
Treatment Needed

No further relevant information available.

SECTION 5: FIRE-FIGHTING MEASURES

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, wear protective clothing. For |
|-----|-----------------------------|---|
| | Protective Equipment And | large spills, use respiratory protective device against the effects of |
| | Emergency Procedures | fumes/dust/aerosol. Ensure adequate ventilation. |
| 6.2 | Environmental Precautions | No special measures requied. |
| 6.3 | Methods And Material For | Pick up mechanically. Send for recovery or disposal in suitable |
| | Containment And Cleaning Up | 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 Storage, Including Any Incompatibilities: Requirements to be No special requirements. **Met by Storerooms** and Receptacles: **Information About** Store away from oxidizing agents. Store away from foodstuffs. Do not store together Storage in One 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.

8.1 Control Parameters



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| Ingredients with limit va | • | · | he workplace: |
|------------------------------|------------------------|------------------------|---|
| | | PEL (USA) | Long-term value: 15*; 15** mg/m³ *Total dust; ** Respirable fraction |
| | | REL (USA) | Long-term value: 10* 5** mg/m³ As Al *Total dust **Respirable/pyro powd./welding f. |
| Aluminum Oxide | 1344-28-1 | TLV (USA) | Long-term value: 1* mg/m³ as Al; *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 |
| Silicon dioxide | 7631-86-9 | NIOSH REL (USA) | Long-term value: 6 mg/m ³ |
| Silicon dioxide | 7631-66-9 | OSHA PEL (USA) | Long-term value: 80 mg/m ³ |
| | | PEL (USA) | Long-term value: 15* mg/m ³ *total dust |
| | | REL (USA) | See Pocket Guide App. A |
| Titanium Dioxide | 13463-67-7 | TLV (USA) | Long-term value: 10 mg/m ³ withdrawn from NIC |
| | | EL (Canada) | Long-term value: 10* 3** mg/m³ *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/m³ *Fume; Rouge: **Total dust, ***respirable |
| | | REL (USA) | Long-term value: 5 mg/m ³ Dust & fume, as Fe |
| Diiron trioxide / iron (III) | 1309-37-1 | TLV (USA) | Long-term value: 5* mg/m³ *as respirable fraction |
| OXIGE | | EL (Canada) | Short-term value: 10** mg/m³ Long-term value: 5* 10*** 3**** mg/m³ *dust & fume ** fume; Rouge: ***total dust ****resp. |
| | | EV (Canada) | Long-term value: 5* 10** mg/m³ *respirable, including Rouge; **total dust |
| Additional information | n: The lists va | ilid during the making | were used as basis. |

| Perso Gener | | hygienic measures: | | | |
|----------------|---|---|--|--|--|
| 8.2 | Exposure Contro | ols | | | |
| 8.2.2 | Personal Protect | ive Equipment: | | | |
| | General protective and hygienic measures: | chemicals. Wash hands before breaks and at the end of work. Immediately remove all soiled and contaminated clothing. Keep away from foodstuffs, beverages and feed. | | | |
| | Respiratory Protection | Use suitable respiratory protective device when high concentrations are present. For spills, respiratory protection may be advisable. | | | |
| | Eye Protection | Wear safety glasses. | | | |
| | Protection of Hands | Wear protective gloves. | | | |
| | - | Not required under normal conditions of use. Protection may be required for spills. | | | |
| | Limitation and supervision of exposure into | No further relevant information available. | | | |

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| _ | | 2010 11112 ; 1110 12 21 10 1 ; 110 10 11 2 2 10 1 ; 2 2 2 2 10 1 ; 2 0 10 1 2 0 10 1 2 0 10 1 2 0 10 1 2 0 10 1 |
|---|-----------------|---|
| | the environment | |
| | 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 Chemical | Properties | |
|-----|---|--------------------------|----------------------------------|---------------------|
| | Appearance | Solid granular product | Color | Black or Green |
| | 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 Chemica | I (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.

| 11.1 Inf | ormation on To | xicological Effects |
|------------|--------------------|-----------------------|
| LD/LC50 va | lues relevant for | r classification: |
| 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) |
| Pri | imary Irritant Eff | ect: |

SECTION 11: TOXICOLOGICAL INFORMATION

On the skin: Slight irritant effect on skin and mucous membranes.

On the eye: Slight irritant effect on eyes. No sensitizing effects known. Sensitisation:

Additional toxicological The substance is not subject to classification according to the

information: latest version of the EU lists.

CMR effects (carcinogenity, Product is in non-inhalable form and is nonclassifiable as a

mutagenicity, and toxicity for carcinogen.

reproduction):

SECTION 12: ECOLOGICAL INFORMATION

| 12.1 | Toxicity | No data |
|------|----------|---------|

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Aquatic toxicity: No further relevant information available.

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

biological cleaning processes.

Bioaccumulative Potential 12.3 Does not accumulate in organisms. 12.4 **Mobility in Soil** 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. **PBT:** Not applicable.

Results of PBT and vPvB **Assessment** vPvB: Not applicable.

No further relevant information available. 12.6 Other Adverse Effects

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 **Waste Treatment Methods**

12.5

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 | ISA) (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 |
| | Mana | Marine Pollutant | None |
| Marine Pollutant | None | Marino i dilatant | |

- (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

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| 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 and is not applicable to the product as supplied. | |
| TSCA (Toxic Substance Control Act) | All ingredients are listed. | |
| Proposition 65 (California): | | |
| Chemicals known to cause cancer: | References to chemical components listed belo based on unbound respirable particles and are 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 60676-86-0 silica, fused 1309-37-1 diiron trioxide / iron (III) oxide | |
| 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.



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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:

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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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