

# Safety data sheet

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

Printing date: 28.01.2015

Revision: 28.01.2015

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

<b>1.1</b>	<b>Product Identifier</b>	<b>BLASTITE, BLITZBLAST, DURATRED, FASTBLAST, NIAGARA BLAST, EXOBLAST, DURALUM, DURABLU</b>
	<b>GHS Product Identifier</b>	<b>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 RK, LT C PT, LT C PRT, XA, SK, EB, PB, REF/P, PC, TP RK, WP,BFA, G52</b> <b>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</b>
	<b>Chemical Name</b>	<b>Mixture (Brown Aluminum Oxide)</b>
	<b>Trade Name</b>	See Product Identifier
	<b>CAS No.</b>	Mixture
	<b>EINECS No.</b>	Mixture
	<b>REACH Registration No.</b>	01-2119529248-35-0043
<b>1.2</b>	<b>Relevant Identified Uses Of The Substance Or Mixture And Uses Advised Against</b>	
	Identified Use(s)	Consult the supplier.
	Uses Advised Against	Users are recommended to seek further advice.
<b>1.3</b>	<b>Details Of The Supplier Of The Safety Data Sheet</b>	
	Company Identification	<b>Accurate Thermal Systems LLC</b>
	Address	4106 Sylon Blvd Hainesport,NJ 08036
	Telephone	609-326-3190
	E-Mail (Competent Person)	info@accuthermal.com
	<b>REACH Registration Company Information</b>	
	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
	<b>Further information obtained from:</b>	
	Telephone	+ 0044 (0)161 873 5512
	E-Mail (expert)	<a href="mailto:clive.wood@washingtomills.co.uk">clive.wood@washingtomills.co.uk</a>
<b>1.4</b>	<b>Emergency Telephone Number – ChemTel</b>	
		<b>(800)255-3924 (USA/Canada), 813-248-0585 (International)</b>

## SECTION 2: HAZARDS IDENTIFICATION

<b>2.1</b>	<b>Classification Of The Substance Or Mixture</b>	
<b>2.1.1</b>	<b>Classification according to Regulation (EC) No. 1272/2008 (CLP)</b>	
		The following Hazard Statements are applicable only according to OSHA regulations within the United States. These Statements are not applicable for the CLP regulation )1272/2008/EC) in the EU: H351
	<b>Hazard Pictogram(s)</b>	 GHS08 Health hazard
	Carc. 2 H351:	Suspected of causing cancer.
		The product is not classified as hazardous according to the CLP regulation.
<b>2.1.2</b>	<b>Classification according to Directive 67/548/EEC &amp; Directive 1999/45/EC – Not applicable.</b>	
	<b>Information concerning particular hazards for human and environment:</b>	
		The product has to be labelled due to the calculation procedure of the “General Classification guideline for preparations of the EU” in the latest valid version.
	<b>Classification system:</b>	
		The classification is according to the latest editions of the EU-lists, and extended by company and literature data.
		The classification is in accordance with the latest editions of international substances lists, and is supplemented by information from technical literature and by information provided by the company.
<b>2.2</b>	<b>Label Elements</b>	
<b>2.2.1</b>	<b>Label Elements According to Regulation (EC) No. 1272/2008 (CLP)</b>	
		The following classifications are applicable only to OSHA (USA) regulations and not the specific CLP

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regulation: H351.

This product does not have a classification according to the CLP regulation.

**Hazard Pictogram(s)**  Not applicable within the EU; applicable only for North America. **Signal Word(s)** **WARNING** Not applicable within the EU; applicable only for North America.

**Hazard-determining components of labelling:** titanium dioxide

**Hazard Statement(s)** The following Hazard Statements are applicable only according to OSHA regulations within the United States. These Statements are not applicable for the CLP regulation (1272/2008/EC) in the EU: H351  
H351: Suspected of causing cancer.

**Precautionary Statement(s)** Applicable only within the United States (USA)  
P281: Use personal protective equipment as required.  
P202: Do not handle until all safety precautions have been read and understood.  
P308 + P313: IF exposed or concerned: Get medical advice/attention.

**Hazard description:**

**WHMIS-symbols:**  D2A – Very toxic material causing other toxic effects

**NFPA ratings (scale 0 - 4)**  Health = 1  
Fire = 0  
Reactivity = 0

**HMIS-ratings (scale 0 - 4)**  Health = \*1  
Fire = 0  
Reactivity = 0

**HMIS Long Term Health Hazard** 13463-67-7 titanium dioxide

2.3

**Other Hazards**

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

## 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.	Hazard Pictogram(s) and Hazard Statement(s)
Aluminum Oxide	>90	1344-28-1	215-691-6	NA	None Substance with a Community workplace exposure limit
Silica, fused	<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.	EC No.	REACH Registration No.	Hazard Pictogram(s) and Hazard Statement(s)
Titanium Dioxide	<5	13463-67-7	236-675-5	NA	 3.6/2 H351

**3.3 Additional Information:** For the wording of the listed risk phrases refer to section 16.

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## SECTION 4: FIRST AID MEASURES

<b>4.1 Description of First Aid Measures</b>	
<b>General Information:</b>	Take affected persons out into the fresh air.
<b>After Inhalation:</b>	Supply fresh air; consult doctor in case of complaints.
<b>After Skin Contact:</b>	Generally the product does not irritate the skin. Immediately rinse with water. If skin irritation continues, consult a doctor.
<b>After Eye Contact:</b>	Remove contact lenses if worn. Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
<b>After Swallowing:</b>	Rinse out mouth and then drink plenty of water. Do not induce vomiting; call for medical help immediately.
<b>4.2 Most Important Symptoms And Effects, Both Acute And Delayed</b>	Coughing, breathing difficulty.
<b>Hazards</b>	Danger of impaired breathing. Limited evidence of a carcinogenic effect.
<b>4.3 Indication Of The Immediate Medical Attention And Special Treatment Needed</b>	If swallowed, gastric irrigation. If necessary oxygen respiration treatment.

## SECTION 5: FIRE-FIGHTING MEASURES

<b>5.1 Extinguishing Media</b>	
Suitable Extinguishing Media	Use fire extinguishing methods suitable to surrounding conditions.
Unsuitable Extinguishing Media	None.
<b>5.2 Special Hazards Arising From The Substance Or Mixture</b>	No further relevant information available.
<b>5.3 Advice for Fire-Fighters</b>	Wear self-contained respiratory protective device. Wear fully protective suit.
<b>Additional Information</b>	No further relevant information available.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

<b>6.1 Personal Precautions, Protective Equipment And Emergency Procedures</b>	Use respiratory protective device against the effects of fumes/dust/aerosol. Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation. Avoid formation of dust.
<b>6.2 Environmental Precautions</b>	Damp down dust with water spray.
<b>6.3 Methods And Material For Containment And Cleaning Up</b>	Pick up mechanically. Dispose contaminated material as waste according to item 13.
<b>6.4 Reference To Other Sections</b>	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

<b>7.1 Precautions For Safe Handling</b>	Use only in well ventilated areas. Any unavoidable deposit of dust must be regularly removed. Prevent formation of dust. Do not dry clean dust covered objects and floors. Wash thoroughly with plenty of water.
<b>Information About Fire – and explosion protection</b>	No special measures required.
<b>7.2 Conditions For Safe Storage, Including Any Incompatibilities: Requirements to be Met by Storerooms</b>	No special requirements.

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<b>and Receptacles:</b>	
<b>Information About Storage in One Common Storage Facility:</b>	Store away from oxidizing agents. Store away from foodstuffs. Do not store together with acids.
<b>Further information about storage conditions:</b>	Store receptacle in a well-ventilated area. Protect from humidity and water.
<b>7.3 Specific End Use(s)</b>	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

Ingredients with limit values that require monitoring at the workplace:			
Aluminum Oxide	1344-28-1	PEL (USA)	Long-term value: 15*; 15** mg/m <sup>3</sup> *Total dust; ** Respirable fraction
		REL (USA)	Long-term value: 10* 5** mg/m <sup>3</sup> As Al *Total dust **Respirable/pyro powd./welding f.
		TLV (USA)	Long-term value: 1* mg/m <sup>3</sup> as Al; *as respirable fraction
		EL (Canada)	Long-term value: 1,0 mg/m <sup>3</sup> respirable, as Al
		EV (Canada)	Long-term value: 10 mg/m <sup>3</sup> total dust
Silica, fused	60676-86-0	PEL (USA)	See Quartz listing
		TLV (USA)	TLV withdrawn
		EV (Canada)	Long-term value: 0,1 mg/m <sup>3</sup> respirable
Titanium Dioxide	13463-67-7	PEL (USA)	Long-term value: 15* mg/m <sup>3</sup> *total dust
		REL (USA)	See Pocket Guide App. A
		TLV (USA)	Long-term value: 10 mg/m <sup>3</sup> withdrawn from NIC
		EL (Canada)	Long-term value: 10* 3** mg/m <sup>3</sup> *total dust; **respirable fraction; IARC 2B
		EV (Canada)	Long-term value: 10 mg/m <sup>3</sup> total dust
Diiron trioxide / iron (III) oxide	1309-37-1	PEL (USA)	Long-term value: 10* 15** 5***mg/m <sup>3</sup> *Fume; Rouge: **Total dust, ***respirable
		REL (USA)	Long-term value: 5 mg/m <sup>3</sup> Dust & fume, as Fe
		TLV (USA)	Long-term value: 5* mg/m <sup>3</sup> *as respirable fraction
		EL (Canada)	Short-term value: 10** mg/m <sup>3</sup> Long-term value: 5* 10*** 3**** mg/m <sup>3</sup> *dust & fume ** fume; Rouge: ***total dust ****resp.
		EV (Canada)	Long-term value: 5* 10** mg/m <sup>3</sup> *respirable, including Rouge; **total dust

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

### 8.2 Exposure Controls

**Personal protective equipment:**

**General protective and hygienic measures:**

<b>8.2</b>	<b>Exposure Controls</b>	
<b>8.2.2</b>	<b>Personal Protective Equipment:</b>	
	<b>General protective and hygienic</b>	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. Avoid contact with the eyes. Do not

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	<b>measures:</b>	inhale dust / smoke / mist.
	<b>Respiratory Protection</b>	Use suitable respiratory protective device in case of insufficient ventilation. Use suitable respiratory protective device when high concentrations are present.
	<b>Eye Protection</b>	Wear safety glasses.
	<b>Protection of Hands</b>	Wear protective gloves.
	<b>Body Protection</b>	Not required under normal conditions of use.
	<b>Limitation and supervision of exposure into the environment</b>	No further relevant information available.
	<b>Risk Management Measures</b>	No further relevant information available. See Section 7 for additional information.

## 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 Chemical (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 Information on Toxicological Effects

**LD/LC50 values relevant for classification:**

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<b>13463-67-7 titanium dioxide</b>		
Oral	LD50	> 20000 mg/kg (rat)
Dermal	LD50	>10000 mg/kg (rabbit)
Inhalative	LC50/4 h	> 6,82 mg/l (rat)
<b>Primary Irritant Effect:</b>		
<b>On the skin:</b>		Slight irritant effect on skin and mucous membranes.
<b>On the eye:</b>		Slight irritant effect on eyes.
<b>Sensitisation:</b>		No sensitizing effects known.
<b>Additional toxicological information:</b>		The substance is not subject to classification according to the latest version of the EU lists.
<b>CMR effects (carcinogenicity, mutagenicity, and toxicity for reproduction):</b>		Based on IARC classifications and not the CLP classifications. Carcinogen 2B

## SECTION 12: ECOLOGICAL INFORMATION

<b>12.1</b>	<b>Toxicity</b>	No data
	<b>Aquatic toxicity:</b>	No further relevant information available.
<b>12.2</b>	<b>Persistence and Degradability</b>	Inorganic product, is not eliminable from water by means of biological cleaning processes.
<b>12.3</b>	<b>Bioaccumulative Potential</b>	Does not accumulate in organisms.
<b>12.4</b>	<b>Mobility in Soil</b>	No further relevant information available.
	<b>Additional ecological information:</b>	
	<b>General notes:</b>	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.
<b>12.5</b>	<b>Results of PBT and vPvB Assessment</b>	<b>PBT:</b> Not applicable. <b>vPvB:</b> Not applicable.
<b>12.6</b>	<b>Other Adverse Effects</b>	No further relevant information available.

## SECTION 13: DISPOSAL CONSIDERATIONS

<b>13.1</b>	<b>Waste Treatment Methods Recommendation</b>	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.
	<b>Uncleaned Packaging: Recommendation:</b>	Packaging may be reused or recycled after cleaning. Disposal must be made according to official regulations.

## SECTION 14: TRANSPORT INFORMATION

<b>Land Transport (ADR/RID) (c)(d)</b>		<b>Land Transport (Within USA) (b)(d)</b>	
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
<b>Sea Transport (IMDG) (c)</b>		<b>Air Transport (ICAO/IATA) (c) (d)</b>	
UN Number	None	UN Number	None
Proper Shipping Name	Not classified as dangerous for transport.	Proper Shipping Name	Not classified as dangerous for transport.



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## 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 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