

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

Revision: 08.06.2018 Printing date: 08.06.2018 and US GHS

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

Duralum Mono, HT, T, HT T, HD, HD HT, HD T, HD HT T, Mono R **Product Identifier** 1.1

GHS Product Identifier Duralum Mono, HT, T, HT T, HD, HD HT, HD T, HD HT T, Mono R

Chemical Name Mixture (White Aluminum Oxide)

Trade Name See Product Identifier

CAS No. 1344-28-1 **EINECS No.** 215-691-6

REACH Registration No. 01-2119529248-35-0043

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

Application of the

Product component substance/the mixture 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

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

Further information obtained from:

+ 0044 (0)161 873 5512 Telephone

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

Emergency Telephone Number - ChemTel 1.4

(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 the OSHA GHS regulation within the United States.

The product is not classified as hazardous according to the CLP regulation.

Additional information:

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

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) NFPA ratings (scale 0 - 4)

Health = 0Fire = 0Reactivity = 0

HMIS-ratings (scale 0 - 4)



Health = 0Fire = 0Reactivity = 0

HMIS Long

Term Health None of the ingredients are listed.

Hazard

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Substances Other Hazards

2.3

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

assessment

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances CAS No. Description 1344-28-1 aluminum oxide Identification number(s) EC number: 215-691-6

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, Slight irritant effect on eyes.

Both Acute And Delayed

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

Media

Unsuitable Extinguishing None.

Media

5.2 Special Hazards Arising

From The Substance Or

Mixture

5.3 Advice for Fire-Fighters

No further relevant information available.

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 large spills, use respiratory protective device against the effects of fumes/dust/aerosol. Ensure adequate ventilation.

6.2 Environmental Precautions No special measures required.

6.3 Methods And Material For Containment And Cleaning UpPick up mechanically. Send for recovery or disposal in suitable receptacles. Dispose contaminated material as waste according to item 13.



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6.4 **Reference To Other Sections** See Section 7 for information on safe handling.

No special measures required.

No special requirements.

See Section 8 for information on personal protection equipment.

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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

Store away from oxidizing agents. Store away from foodstuffs. Do not store together

with plenty of water. Prevent formation of dust.

Information About

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Fire - and explosion

protection

7.2 Conditions For Safe Storage, Including Any Incompatibilities:

with acids.

None.

Requirements to be

Met by Storerooms

and Receptacles: Information About

Storage in One **Common Storage**

Facility:

Further information

conditions:

Specific End Use(s)

7.3

about storage

No further relevant information available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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

Control Parameters

Ingredients with limit values that require monitoring at the workplace:			
Aluminum Oxide 1:		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.
	1344-28-1	TLV (USA)	Long-term value: 1* mg/m³ as Al; *as respirable fraction
		EL (Canada)	Long-term value: 1,0 mg/m³ respirable, as Al
		EV (Canada)	Long-term value: 10 mg/m ³ total dust

DNELs No further relevant information available. PNECs No further relevant information available.

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

8.2 Exposure Controls

Personal protective equipment:

General protective and hygienic measures:

8.2	Exposure Controls Personal Protective Equipment:		
8.2.2			
	General protective and hygienic measures:	The usual precautionary measures are to be adhered to when handling chemicals. Wash hands before breaks and at the end of work. Avoid contact with the eyes. Do not inhale dust / smoke / mist. Avoid close or long term contact with the skin. Keep away from foodstuffs, beverages and feed.	
	Respiratory Protection	Not required under normal conditions of use. Use suitable respiratory protective device when high concentrations are present. For spills, respiratory protection may be advisable.	

Safety data sheet
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Eye Protection	Wear safety glasses.	
Protection of Hands	Wear protective gloves.	
Body Protection	Not required under normal conditions of use. Protection may be required for spills.	
Risk Management Measures	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	Powder	Color	White
	Odor	Characteristic	Odor Threshold (ppm)	Not available
	Melting Point (°C) / Freezing Point (°C)	2050 °C (3812 °F)	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)	3,98 g/cm ³
	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	l (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	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)	Possible in traces.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects				
LD/LC50 values relevant for classification: None				
Primary Irritant Effect:				
On the skin:	Slight irritant effect on skin and mucous membranes.			
On the eye:	Slight irritant effect on eyes.			
Sensitisation:	No sensitizing effects known.			
Additional toxicological	The substance is not subject to classification according to the			
information:	latest version of the EU lists.			
CMR effects (carcinogenity,	No further relevant information available.			
mutagenicity, and toxicity for reproduction):				

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SECTION 12: ECOLOGICAL INFORMATION

No data 12.1 **Toxicity**

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. No further relevant information available. 12.4 **Mobility in Soil**

Additional ecological information:

General notes: Generally not hazardous for 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

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wastes. Residual materials should be treated as hazardous.

Uncleaned Packaging:

Recommendation: Disposal must be made according to official regulations.

SECTION 14: TRANSPORT INFORMATION

Land Transport (ADR/RID)	(c)(d)	Land Transport (Within U	JSA) (b)(d)
UN Number	None	UN Number	None
Proper Shipping Name	Not classified as	Proper Shipping Name	Not classified as dangerous fo
	dangerous for transport.		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 fo transport.
Transport Hazard Class(es)	None	Transport Hazard Class(es)	None
Packing Group	None	Packing Group	None
i acking Group			
Marine Pollutant	None	Marine Pollutant	None

(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

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SECTION 15: REGULATORY INFORMATION

15.1	Safety, Health And Environmental Regulation	s/Legislation Specific For The Substance O	r Miyture
13.1	USA	is/Legislation specific For The substance O	i wiixture
	SARA		
	Section 355 (extremely hazardous substances)	Substance is not listed.	
	Section 313 (Specific toxic chemical listings)	Aluminum oxide listing is only relevant to fibrand is not applicable to the product as suppli	
	TSCA (Toxic Substance Control Act) Proposition 65 (California):	Substance is listed.	
	Chemicals known to cause cancer:	Substance is not listed.	
	Chemicals known to cause reproductive toxicity for females:	Substance is not listed.	
	Chemicals known to cause reproductive toxicity for males:	Substance is not listed.	
	Chemicals known to cause developmental toxicity:	Substance is not listed.	
	Carcinogenic Categories		
	EPA (Environmental Protection Agency)	Substance is not listed.	
	IARC (International Agency for Research on Cancer)	Substance is not listed.	
	TLV (Threshold Limit Value established by ACGIH)	1344-28-1 aluminium oxide	A4
	MAK (German Maximum Workplace Concentration)	1344-28-1 aluminium oxide	2
	NIOSH-Ca (National Institute for Occupational Safety and Health)	Substance is not listed.	
	Canada		
	Canadian Domestic Substances List (DSL)	Substance is listed.	
	Canadian Ingredient Disclosure list (limit 0.1%)	Substance is not listed.	
	Canada Ingredient Disclosure list (limit 1%)	Substance is listed.	
	Other regulations, limitations and prohibitive This product has been classified in accordance Regulations and the SDS contains all the inform	with hazard criteria of the Controlled Products	ulations.
	Substances of very high concern (SVHC) according to REACH, Article 57	Substance is not listed.	

15.2	Chemical Safety Assessment	A Chemical Safety Assessment has not been carried out.
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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



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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:

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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)

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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

WHMIS: Workplace Hazardous Materials Information System (Canada)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

Sources

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