

Safety data sheet

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

Printing date: 20.08.2015

Revision: 20.08.2015

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

1.1	Product Identifier	Duralum Special White - AB, BP, RF, SK, S2, LAP/F, REF, VLD
	GHS Product Identifier	Duralum Special White - AB, BP, RF, SK, S2, LAP/F, REF, VLD
	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 substance/the mixture	Product component
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@washingtomills.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)	clive.wood@washingtomills.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 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	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									
	Pictogram(s)										
	Hazard-determining components of labelling:	None									
	Hazard	Not regulated									
	Statement(s)										
	NFPA ratings (scale 0 - 4)	<table style="display: inline-table; border: none;"> <tr> <td style="text-align: center; color: white; background-color: red; width: 20px; height: 20px;">0</td> <td style="text-align: center; color: white; background-color: yellow; width: 20px; height: 20px;">0</td> <td style="text-align: center; color: white; background-color: blue; width: 20px; height: 20px;">0</td> </tr> </table> Health = 0 Fire = 0 Reactivity = 0	0	0	0						
0	0	0									
	HMSI-ratings (scale 0 - 4)	<table style="display: inline-table; border: none;"> <tr> <td style="background-color: blue; color: white; padding: 2px;">HEALTH</td> <td style="border: 1px solid black; text-align: center; width: 20px;">0</td> <td style="padding-left: 10px;">Health = 0</td> </tr> <tr> <td style="background-color: red; color: white; padding: 2px;">FIRE</td> <td style="border: 1px solid black; text-align: center;">0</td> <td style="padding-left: 10px;">Fire = 0</td> </tr> <tr> <td style="background-color: yellow; color: black; padding: 2px;">REACTIVITY</td> <td style="border: 1px solid black; text-align: center;">0</td> <td style="padding-left: 10px;">Reactivity = 0</td> </tr> </table>	HEALTH	0	Health = 0	FIRE	0	Fire = 0	REACTIVITY	0	Reactivity = 0
HEALTH	0	Health = 0									
FIRE	0	Fire = 0									
REACTIVITY	0	Reactivity = 0									
	HMSI Long Term Health Hazard	None of the ingredients are listed.									

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2.3	Substances	
	Other Hazards	
	Results of PBT and vPvB assessment	PBT: Not applicable. vPvB: Not applicable.

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, Both Acute And Delayed	Slight irritant effect on eyes.
	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 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	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 required.
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

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6.4 Reference To Other Sections	13.
	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

7.1 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.
	No special measures required.
7.2 Conditions For Safe Storage, Including Any Incompatibilities: Requirements to be Met by Storerooms and Receptacles: Information About Storage in One Common Storage Facility: Further information about storage conditions:	No special requirements.
	Store away from oxidizing agents. Store away from foodstuffs. Do not store together with acids.
7.3 Specific End Use(s)	None.
	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 ³ *Total dust; ** Respirable fraction
		REL (USA)	Long-term value: 10* 5** mg/m ³ As Al *Total dust **Respirable/pyro powd./welding f.
		TLV (USA)	Long-term value: 1* mg/m ³ 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

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	
8.2.2	Personal Protective Equipment:	
	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.

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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	According to product specification
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)	3,88 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 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	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 information:	The substance is not subject to classification according to the latest version of the EU lists.
CMR effects (carcinogenity, mutagenicity, and toxicity for reproduction):	No further relevant information available.

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SECTION 12: ECOLOGICAL INFORMATION

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	No further relevant information available.
Additional ecological information:	
General notes:	Generally not hazardous for water.
12.5 Results of PBT and vPvB Assessment	PBT: Not applicable. 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 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 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
<p>(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.</p>			
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 Regulations/Legislation Specific For The Substance Or Mixture

USA

SARA

Section 355 (extremely hazardous substances) Substance is not listed.

Section 313 (Specific toxic chemical listings) Substance is listed.

TSCA (Toxic Substance Control Act) Substance is listed.

Proposition 65 (California):

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 regulations

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations. Substances of very high concern (SVHC) Substance is not listed. according to REACH, Article 57

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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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

WHMIS: Workplace Hazardous Materials Information System (Canada)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

Sources

SDS Prepared by:

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