

## Safety data sheet

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



Printing date: 08.06.2018

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

<b>1.1</b>	<b>Product Identifier</b>	<b>Duralum HSP</b>
	<b>GHS Product Identifier</b>	<b>Duralum HSP</b>
	<b>Chemical Name</b>	<b>Mixture (Aluminum Oxide Mullite)</b>
	<b>Trade Name</b>	See Product Identifier
	<b>CAS No.</b>	Mixture
	<b>EINECS No.</b>	Mixture
	<b>REACH Registration No.</b>	Not available
<b>1.2</b>	<b>Relevant Identified Uses Of The Substance Or Mixture And Uses Advised Against</b>	
	No further relevant information available.	
	<b>Application of the substance / the mixture</b>	Product Component
<b>1.3</b>	<b>Details Of The Supplier Of The Safety Data Sheet</b>	
	Company Identification	<b>Washington Mills Electro Minerals Corp.</b>
	Address	1801 Buffalo Avenue Niagara Falls, NY 14302
	Telephone	(716) 278-6600
	E-Mail (Competent Person)	<a href="mailto:info@washingtomills.com">info@washingtomills.com</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</b>	
	The product is not classified as hazardous according to the Globally Harmonized System (GHS). 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 or Directive 1999/45/EC - Not applicable</b>	
	<b>Information concerning particular hazards for human and environment:</b>	
	The product does not have 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>Labelling according to Regulation (EC) No 1272/2008</b>	
	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.	
	<b>Hazard</b>	Not Regulated <b>Signal Word</b> Not Regulated
	<b>Pictogram(s)</b>	
	<b>Hazard-determining components of labelling:</b> None	
	<b>Hazard description:</b>	
	<b>WHMIS-</b> Not hazardous under WHMIS.	
	<b>symbols:</b>	
	<b>NFPA ratings</b> (scale 0 - 4)	 Health = 0 Fire = 0 Reactivity = 0
	<b>HMIS-ratings</b> (scale 0 - 4)	 Health = 0 Fire = 0 Reactivity = 0
	<b>HMIS Long Term Health Hazard Substances</b>	None of the ingredients are listed.
<b>2.3</b>	<b>Other Hazards</b>	
	<b>Results of PBT</b>	<b>PBT:</b> Not applicable.

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and vPvB assessment vPvB: Not applicable.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.2 Mixtures

**Description:** Mixture of substances listed below with nonhazardous additions.

**Dangerous Components:**

None in reportable quantities.

Hazardous Ingredient(s)	%W/W	CAS No.	EC No.	Hazard Pictogram(s)	Hazard Statement(s) and Risk (R) Phrase(s)
aluminium oxide	50-100	1344-28-1	215-691-6	None	substance with a Community workplace exposure limit
mullite	25-50	1302-93-8	215-113-2	None	substance with a Community workplace exposure limit

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

### 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 Agents** Use fire extinguishing methods suitable to surrounding conditions.

**Unsuitable Extinguishing Agents** 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.

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### SECTION 6: ACCIDENTAL RELEASE MEASURES

<b>6.1 Personal Precautions, Protective Equipment And Emergency Procedures</b>	Ensure adequate ventilation. Avoid formation of dust. For large spills, use respiratory protective device against the effects of fumes/dust/aerosol. For large spills, wear protective clothing.
<b>6.2 Environmental Precautions</b>	Do not allow to enter sewers/ surface or ground water.
<b>6.3 Methods And Material For Containment And Cleaning Up</b>	Pick up mechanically. Ensure adequate ventilation. 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>	Prevent formation of dust. Do not dry clean dust covered objects and floors. Wash thoroughly with plenty of water. Any unavoidable deposit of dust must be regularly removed. Use only in well ventilated areas.
<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 and Receptacles: Information About Storage in One Common Storage Facility: Further information about storage conditions:</b>	No special requirements.  Store away from foodstuffs. Store away from oxidising agents. Do not store together with acids.  None
<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:			
aluminium 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
mullite	1302-93-8	PEL (USA)	Long-term value: 15 (total), 5 (resp) mg/m <sup>3</sup>

**DNELs** No further relevant information available.

**PNECs** No further relevant information available.

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



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<b>8.2</b>	<b>Exposure Controls</b>	
<b>8.2.2</b>	<b>Personal Protective Equipment:</b>	
	<b>General protective and hygienic measures:</b>	The usual precautionary measures are to be adhered to when handling chemicals. Wash hands before breaks and at the end of work. Do not inhale dust / smoke / mist. Keep away from foodstuffs, beverages and feed. Avoid close or long term contact with the skin. Avoid contact with the eyes.
	<b>Respiratory Protection</b>	Not required under normal conditions of use. Use suitable respiratory protective device when high concentrations are present. For spills, respiratory protection may be advisable.
	<b>Eye Protection</b>	Safety glasses.
	<b>Protection of Hands</b>	Wear protective gloves.
	<b>Body Protection</b>	Not required under normal conditions of use. Protection may be required for spills.
	<b>Limitation and supervision of exposure into the environment</b>	No special requirements.
	<b>Risk Management Measures</b>	No special requirements.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>9.1</b>	<b>Information On Basic Physical And Chemical Properties</b>			
	Appearance	Granulate	Color	Grey
	Odor	Odourless	Odor Threshold (ppm)	Not available
	Melting Point (°C) / Freezing Point (°C)	3452° F/ 1900 °C	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 at 20 °C:	3,6 g/cm <sup>3</sup>
	Solubility (Water)	Insoluble	Solubility (Other)	Not available
	Partition Coefficient (N-Octanol/Water)	Not available	Viscosity (mPa.s)	Not available
<b>9.2</b>	<b>Other Information</b>	No further relevant information available.		

## SECTION 10: STABILITY AND REACTIVITY

<b>10.1</b>	<b>Reactivity</b>	
<b>10.2</b>	<b>Chemical Stability</b>	
	<b>Thermal Decomposition / conditions to be avoided:</b>	No decomposition if used according to specifications.
<b>10.3</b>	<b>Possibility of Hazardous Reactions</b>	Reacts with strong alkali. Reacts with strong oxidising agents.
<b>10.4</b>	<b>Conditions To Avoid</b>	No further relevant information available.
<b>10.5</b>	<b>Incompatible Materials</b>	No further relevant information available.
<b>10.6</b>	<b>Hazardous Decomposition Product(s)</b>	Possible in traces.

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### SECTION 11: TOXICOLOGICAL INFORMATION

#### 11.1 Information on Toxicological Effects

**Acute toxicity:**

**Primary Irritant Effect:**

**On the skin:**

No irritant effect.

**On the eye:**

Slight irritant effect on eyes.

**Sensitisation:**

No sensitizing effects known.

**Additional toxicological information:**

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version. When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

### SECTION 12: ECOLOGICAL INFORMATION

#### 12.1 Toxicity

**Aquatic toxicity:**

No further relevant information available.

#### 12.2 Persistence and Degradability

No further relevant information available.

#### 12.3 Bioaccumulative Potential

No further relevant information available.

#### 12.4 Mobility in Soil

No further relevant information available.

**Additional ecological information:**

**General notes:**

Not known to be hazardous to 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 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)

UN Number	None
Proper Shipping Name	Not classified as dangerous for transport.
Transport Hazard Class(es)	None
Packing Group	None
Hazard Label(s)	None
Environmental Hazards	None
Special Precautions For User	None

#### Sea Transport (IMDG) (c)

UN Number	None
Proper Shipping Name	Not classified as dangerous for transport.
Transport Hazard Class(es)	None

#### Land Transport (Within USA) (b)(d)

UN Number	None
Proper Shipping Name	Not classified as dangerous for transport.
Transport Hazard Class(es)	None
Packing Group	None
Hazard Label(s)	None
Environmental Hazards	None
Special Precautions For User	None

#### Air Transport (ICAO/IATA) (c) (d)

UN Number	None
Proper Shipping Name	Not classified as dangerous for transport.
Transport Hazard Class(es)	None

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Packing Group	None	Packing Group	None
Marine Pollutant	None	Marine Pollutant	None
Special Precautions For User	None	Special Precautions For User	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

##### United States (USA)

##### SARA

Section 355 (extremely hazardous substances) None of the ingredients are listed.

SARA 313 (Specific toxic chemical listings) 1344-28-1 aluminium oxide

TSCA (Toxic Substance Control Act) All ingredients are listed.

##### Proposition 65 (California):

Chemicals known to cause cancer: None of the ingredients are listed.

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) None of the ingredients are 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)** None of the ingredients are listed.

##### 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

##### Other regulations, limitations and prohibitive regulations

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:

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- 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 Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

### Sources

SDS Prepared by:

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