

Safety data sheet

Printing date: 06.11.2014



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

Revision: 06.11.2014

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

1.1	Product Identifier	Aluminum Oxide Magnetic Tails, Magtails, Dingtails
	GHS Product Identifier	Aluminum Oxide Magnetic Tails, Magtails, Dingtails
	Chemical Name	Mixture (Aluminum Oxide / Ferrosilicon)
	Trade Name	See Product Identifier
	CAS No.	Mixture
	EINECS No.	Mixture
	REACH Registration No.	Not available
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	Washington Mills Electro Minerals Corp.
	Address	1801 Buffalo Avenue Niagara Falls, NY 14302
	Telephone	(716) 278-6600
	E-Mail (Competent Person)	info@washingtongmills.com
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		
	The following classifications are applicable only to OSHA (USA) regulations and not the specific CLP regulation: H351. The product is not classified as hazardous according to the CLP regulation.		
	Hazard Pictogram(s)		Health hazard
			Carc. 2 H351: Suspected of causing cancer. Route of exposure: Inhalative.
2.1.2	Classification according to Directive 67/548/EEC or Directive 1999/45/EC – Not applicable.		
	Information concerning particular hazards for human and environment:		
	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.		
	Classification system:		
	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.		
2.2	Label Elements		
2.2.1	Label Elements According to Regulation (EC) No. 1272/2008		
	The product is classified and labelled according to the CLP regulation.		
	Hazard Pictogram(s)		Signal Word(s)
		GHS08 Not applicable within the EU; applicable only for North America.	WARNING Not applicable within the EU; applicable only for North America.
	Hazard-determining components of labelling:	titanium dioxide (classification relevant for USA/Canada only)	
	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. Route of exposure: Inhalative.	
	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.	

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P501 Dispose of contents/container in accordance with
local/regional/national/international regulations.

Hazard description:

**WHMIS-
symbols:**

**NFPA ratings
(scale 0 - 4)**



D2A – Very toxic material causing other toxic effects

Health = 0
Fire = 0
Reactivity = 0

**HMIS-ratings
(scale 0 - 4)**



Health = *0
Fire = 0
Reactivity = 0

**HMIS Long
Term Health
Hazard**

13463-67-7 titanium dioxide

2.3

**Substances
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.

Dangerous component(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
Ferrosilicon	10-25	8049-17-0	617-088-7	None	Substance with a Community workplace exposure limit
Titanium dioxide	2,5-10	13463-67-7	236-675-5	None	Substance with a Community workplace exposure limit
Diiron trioxide / iron (III) oxide	2,5-10	1309-37-1	215-168-2	None	Substance with a Community workplace exposure limit

Dangerous Components (Alternative Classifications):

Hazardous Ingredient(s)	%W/W	CAS No.	EC No.	Hazard Pictogram(s)	Hazard Statement(s) and Risk (R) Phrase(s)
Titanium Dioxide (classification relevant for USA/Canada only)	2,5-10	13463-67-7	236-675-5		3.6/2 Carc. 2, H351

3.3 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.

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Hazards	Possible risk of irreversible effects.
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 Media	None.
5.2 Special Hazards Arising From The Substance Or Mixture	No further relevant information available.
5.3 Advice for Fire-Fighters	
Protective equipment	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	For large spills, wear protective clothing. Ensure adequate ventilation. Avoid formation of dust. For large spills, use respiratory protective device against the effects of fumes/dust/aerosol.
6.2 Environmental Precautions	No special measures required.
6.3 Methods And Material For Containment And Cleaning Up	Pick up mechanically. Ensure adequate ventilation. 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

7.1 Precautions For Safe Handling	Prevent formation of dust. Any unavoidable deposit of dust must be regularly removed. Do not dry clean dust covered objects and floors. Wash thoroughly with plenty of water. Use only in well ventilated areas.
Information About Fire – and explosion protection	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:	Provide ventilation for receptacles. Protect from humidity and water. Do not store together with acids. Store away from foodstuffs. Store away from oxidising agents. Store in cool, dry conditions in well sealed receptacles.
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 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
Ferrosilicon	8049-17-0	PEL (USA)	Long-term value: 15 (total), 5 (resp.) mg/m ³
Titanium Dioxide	13463-67-7	PEL (USA)	Long-term value: 15* mg/m ³ *total dust
		REL (USA)	See Pocket Guide App. A
		TLV (USA)	Long-term value: 10 mg/m ³ withdrawn from NIC
		EL (Canada)	Long-term value: 10* 3** mg/m ³ *total dust,**respirable fraction; IARC 2B
		EV (Canada)	Long-term value: 10 mg/m ³ total dust
Diiron trioxide / iron (III) oxide	1309-37-1	PEL (USA)	Long-term value: 10* 15** 5*** mg/m ³ *Fume; Rouge: **Total dust, ***respirable
		REL (USA)	Long-term value: 5 mg/m ³ Dust & fume, as Fe
		TLV (USA)	Long-term value: 5* mg/m ³ *as respirable fraction
		EL (Canada)	Short-term value: 10** mg/m ³ Long-term value: 5* 10*** 3**** mg/m ³ *dust & fume**fume; Rouge: ****total dust****resp.
		EV (Canada)	Long-term value: 5* 10** mg/m ³ *respirable, including Rouge;**total dust
<p>DNELs No further relevant information available.</p> <p>PNECs No further relevant information available.</p> <p>Additional information: The lists valid during the making were used as basis.</p>			

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. Keep away from foodstuffs, beverages and feed. Do not inhale dust / smoke / mist. Avoid contact with the eyes and skin. Wash hands before breaks and at the end of work.
	Respiratory Protection	Suitable respiratory protective device recommended. Use suitable respiratory protective device when high concentrations are present. For spills, respiratory protection may be advisable.
	Eye Protection	Safety glasses.
	Protection of Hands	Wear protective gloves.
	Body Protection	Protective work clothing
	Limitation and supervision of exposure into the environment	No further relevant information available.
	Risk Management Measures	No special requirements.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information On Basic Physical And Chemical Properties

Appearance	Granulate	Color	Brown
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)	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	3,95 g/cm ³
Solubility (Water)	Insoluble	Solubility (Other)	Not available
Partition Coefficient (N-Octanol/Water)	Not available	Viscosity	Not available

9.2 Other Information No further relevant information 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 steam releasing flammable gases (hydrogen). Reacts with strong oxidising agents. Reacts with strong acids and alkali.

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) No dangerous decomposition products known.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects

Acute toxicity:

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.

Acute effects (acute toxicity, irritation and corrosivity):

Suspected of causing cancer by inhalation. Route of exposure: Inhalative. Route of exposure: Inhalative.

CMR effects (carcinogenicity, mutagenicity, and toxicity for reproduction):

Based on IARC classifications and not the CLP classification. Carc. 2

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:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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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	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

(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 aluminum oxide
TSCA (Toxic Substance Control Act)	All ingredients are listed.
Proposition 65 (California):	
Chemicals known to cause cancer:	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.

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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, chemically prepared	3
	13463-67-7 titanium dioxide	2B
	1309-37-1 diiron trioxide / iron (III) oxide	3
TLV (Threshold Limit Value established by ACGIH)	1344-28-1 aluminium oxide	A4
	13463-67-7 titanium dioxide	A4
	1309-37-1 diiron trioxide / iron (III) oxide	A4
MAK (German Maximum Workplace Concentration)	1344-28-1 aluminium oxide	2
	13463-67-7 titanium dioxide	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	
	8049-17-0 Ferrosilicon	
	7631-86-9 silicon dioxide, chemically prepared	
	1309-37-1 diiron trioxide / iron (III) 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:

- 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)

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NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

Carc. 2: Carcinogenicity, Hazard Category 2

Sources

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