

WASHINGTON MILLS

CERAMICS CORPORATION
SAFETY DATA SHEET

Revision: 11.01CLP

Date: 1 September 2011

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


1.1	Product Identifier	Ceramic Tumbling Media Composition ECH, XC
	GHS Product Identifier	Ceramic Tumbling Media Composition ECH, XC
	Chemical Name	Fired Ceramic Mass Finishing Media
	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 Ceramic Corp.
	Address	1801 Buffalo Avenue Niagara Falls, NY 14302 (716) 278-6600
	Telephone	(716) 278-6600
	E-Mail (Competent Person)	info@washingtomills.com
1.4	Emergency Telephone Number – CHEMTREC	
		(800)424-9300 (USA/Canada), 703-527-3887 (International)


SECTION 2: HAZARDS IDENTIFICATION

2.1	Classification Of The Substance Or Mixture		
2.1.1	Regulation (EC) No. 1272/2008 (CLP) – None		
2.1.2	Directive 67/548/EEC & Directive 1999/45/EC – None		
2.2	Label Elements		
2.2.1	Label Elements According To Regulation (EC) No. 1272/2008 (CLP)		
	GHS Product Identifier (EU)		
	Hazard	None	Signal Word(s) None
	Pictogram(s)		
	Hazard Statement(s)	None	
	Precautionary Statement(s)		
2.2.2	Label elements According to Directive 67/548/EEC & Directive 1999/45/EC		
	Hazard Symbol	None	
	Risk Phrases	None	
	Safety Phrases	None	
2.3	Other Hazards	GHS Classification (USA): Not Hazardous under OSHA Hazard Communication Standard HMIS: Health-1, Flammability-0, Reactivity – 0	
		Hazard Statement(s)	
		None	
		Precautionary Statement(s)	
		None	
		WHMIS/GHS Classification (Canada):	
		None	
		Hazard Statement(s)	
		None	
		Precautionary Statement(s)	
		None	

2.4 Additional Information	See Section 16 for additional dust hazard information.	
Potential Health Effects		
<i>Inhalation</i>	Contains trace amounts of crystalline silica. Inhalation is virtually impossible as material is too large and is normally used wet, preventing dust generation. Respiratory protection suggested when dusts are present.	
<i>Skin Contact</i>	Mechanical irritation. May cause abrasions.	
<i>Eye Contact</i>	Mechanical irritation, corneal scratches. Brittle ceramic – broken pieces may cause damage to eyes.	
<i>Ingestion</i>	Mechanical hazard only - could cause choking.	

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

EC Classification No. 1272/2008/EC And GHS Classification ¹						
Hazardous Ingredient(s)	%W/W	CAS No.	EC No.	REACH Registration No.	Hazard Pictogram(s) and Hazard Statement(s)	
Magnesium Aluminum Silicate	60-90	1302-88-1	Not referenced	NA	None	None
Aluminum Oxide ²	10-40	1344-28-1	215-691-6	NA	None	None
Titanium Dioxide	<2	13463-67-7	236-675-5	NA	None	None
Chromium (III) Oxide	<2	1308-38-9	215-160-9	NA		3.3/2; H319
Impurities ³	<5	NR	NR	NR	None	None

EC Classification No. 67/548/EEC ¹						
Hazardous Ingredient(s)	%W/W	CAS No.	EC No.	REACH Registration No.	Hazard Pictogram(s) and Risk (R) Phras(es)	
Magnesium Aluminum Silicate	60-90	1302-88-1	Not referenced	NA	None	None
Aluminum Oxide ²	10-40	1344-28-1	215-691-6	NA	None	None
Titanium Dioxide	<2	13463-67-7	236-675-5	NA	None	None
Chromium (III) Oxide	<2	1308-38-9	215-160-9	NA		R36
Impurities ³	<5	NR	NR	NR	None	None

Additional Information - For full text of H phrases see section 16. For full text of R phrases see section 16. Non-Hazardous ingredients are not listed and make up the balance of the product.
¹Not all listed components are present in all formulations. ²Non-Fibrous form of Aluminum oxide. ³Contains trace amounts of crystalline silica.

SECTION 4: FIRST AID MEASURES

4.1 Description Of First Aid Measures	
Inhalation	Remove patient from exposure. Keep patient at rest and give oxygen if breathing difficult. If symptoms develop, obtain medical attention.
Skin Contact	Remove contaminated clothing immediately and drench affected skin with plenty of water. If irritation (redness, rash, blistering) develops, get medical attention.
Eye Contact	Irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 15 minutes. Obtain immediate medical attention.
Ingestion	Avoid ingestion. Do not induce vomiting. Get immediate medical attention.

4.2 Most Important Symptoms And Effects, Both Acute And Delayed	Acute: Cough and Shortness of breath. Delayed And Chronic Effects: Similar to acute effects, but with potentially irreversible symptoms, due to the possibility of emphysemic illness.
4.3 Indication Of The Immediate Medical Attention And Special Treatment Needed	Treat symptomatically.

SECTION 5: FIRE-FIGHTING MEASURES

Not Flammable. No declared Flash Point, Explosive Limits, or Auto-Ignition Temperature.

5.1 Extinguishing Media

Suitable Extinguishing Media	Extinguisher suitable for ordinary combustible materials. Class A extinguishing agents.
Unsuitable Extinguishing Media	None known.

5.2 Special Hazards Arising From The Substance Or Mixture

A self contained breathing apparatus and suitable protective clothing should be worn in fire conditions.

5.3 Advice For Fire-Fighters

Extinguish preferably with dry chemical, foam or water spray.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment And Emergency Procedures

Avoid dust generation. Ensure full personal protection (including respiratory protection) during removal of spillages. (For emergency and non-emergency personnel)

6.2 Environmental Precautions

Ventilation recommended. No special measures are required. Collect mechanically and dispose of according to Section 13. Transfer to a lidded container for disposal or recovery. Avoid dust generation. Ensure adequate ventilation.

6.3 Methods And Material For Containment And Cleaning Up**6.4 Reference To Other Sections**

See Also Section 7, 8, 13.

6.5 Additional Information

None

SECTION 7: HANDLING AND STORAGE

7.1 Precautions For Safe Handling	Avoid contact with skin and eyes. Wash hands before eating, drinking or smoking. Avoid accumulation of dust. Use only in well-ventilated areas.
7.2 Conditions For Safe Storage, Including Any Incompatibilities	Store in the original container in a cool, dry well ventilated area. Keep containers tightly sealed.
Storage Temperature	Ambient.
Storage Life	Not available
Incompatible Materials	None
7.3 Specific End Use(s)	Consult the supplier.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters**8.1.1 Occupational Exposure Limits**

Substance	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m ³)	STEL (ppm)	STEL (mg/m ³)	Note:
Aluminum Oxide	1344-28-1	NE	5 (respirable) 15 (total)	NE	NE	OSHA PEL (vacated)
		NE	10	NE	NE	ACGIH
Magnesium Aluminum Silicate	1302-88-1	NE	NE	NE	NE	OSHA PEL
		NE	NE	NE	NE	ACGIH
Titanium Dioxide	13463-67-7	NE	5	NE	NE	ACGIH
		NE	15 (vacated)	NE	NE	OSHA
Chromium (III) Oxide	1308-38-9	NE	NE	NE	NE	OSHA
		NE	NE	NE	NE	ACGIH





8.1.2 Biological Limit Value

Limit Value Type (Country Of Origin)	Substance	CAS No.	Biological Limit Value	Note:
USA	Crystalline Silica	14464-46-1	0.025mg/m ³	ACGIH Limit

8.1.3 PNECs And DNELs

No PNECs or DNELs available for product.

8.2.2 Personal Protection Equipment

	Respirators	Avoid breathing dust. Assess exposure concentrations of all materials involved in the workplace. If concentrations exceed the exposure limits listed in Exposure Guidelines or irritation or other symptoms experienced, follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149.
	Eye Protection	Avoid eye contact. Wear protective eyewear (goggles, face shield, or safety glasses).
	Gloves	Wear protective gloves.
	Body Protection	Avoid skin contact. Wear suitable protective clothing and gloves.
	Engineering Controls	Provide sufficient ventilation, particularly in closed rooms. Maintain employee exposure below applicable permissible exposure limits.
	Other	Remove contaminated, saturated clothing immediately. Contaminated clothing should be thoroughly cleaned.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information On Basic Physical And Chemical Properties

Appearance	Solid ceramic in various shapes.	Color	Tan to Yellow to Grey
Odor	Odorless	Odor Threshold (ppm)	Not available
Melting Point (°C) / Freezing Point (°C)	>1100°C	Boiling Point/Boiling Range (°C)	>2000°C
Flash Point (°C)	None	Explosive Limit Ranges	Not available
Auto Ignition Temperature (°C)	None	Decomposition Temperature (°C)	Not available
Explosive Properties	None	Oxidizing Properties	Not available
Flammability (Solid, Gas)	Not available	pH (Value)	Not available
Evaporation Rate	Not available	Vapor Pressure (mm Hg)	Not available
Vapor Density (Air=1)	Not available	Density (g/ml)	2.2-3.4
Solubility (Water)	Insoluble	Solubility (Other)	Partially in strong mineral acids.
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	Slight
10.2 Chemical Stability	Stable under normal conditions.
10.3 Possibility Of Hazardous Reactions	Not available
10.4 Conditions To Avoid	Not available
10.5 Incompatible Materials	Not available
10.6 Hazardous Decomposition Product(s)	Not available

SECTION 11: TOXICOLOGICAL INFORMATION

Substance	CAS No.	LD ₅₀ (Oral, Rat)	LC ₅₀ (Inhalation, Rat)	LD ₅₀ (Dermal, Rat)
Aluminum Oxide	1344-28-1	No data	No data	No data
Magnesium Aluminum Silicate	1302-88-1	No data	No data	No data
Chromium (III) oxide	1308-38-9	>10000 mg/kg	No data	No data
Titanium Dioxide	13463-67-7	No data	No data	No data

Avoid accumulation of dust.

11.1 Information On Toxicological Effects

11.1.2 Mixtures

Acute Toxicity

Inhalation

Inhalation of the dust may cause coughing, tightness of the chest and difficulty in breathing. Contains trace amounts of crystalline silica.

Skin Contact

Prolonged contact may cause skin abrasion, redness, and itching.

Eye Contact

Eye irritant. May cause tearing and redness.

Ingestion

May cause headache, nausea and vomiting. Causes eye irritation. May cause respiratory irritation. May cause transient irritation.

Irritation

Not to be expected.

Corrosivity

No data.

Sensitisation

No data.

Repeated Dose Toxicity

Contains trace amounts of crystalline silica.

Carcinogenicity

No data.

Mutagenicity

No data.

Toxicity For Reproduction

No Data.

11.2 Other Information

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity	No data
12.2 Persistence And Degradability	No data
12.3 Bioaccumulative Potential	The product has low potential for bioaccumulation.
12.4 Mobility In Soil	No data
12.5 Results Of PBT And vPvB Assessment	No data.
12.6 Other Adverse Effects	No data.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods	Solid or chemical waste generators must determine whether a discarded waste is classified as a hazardous waste. U.S. EPA guidelines for the classifications determination are listed in 40 CFR parts 261.3. Disposal should be in accordance with local, state or national legislation. Containers must not be punctured or destroyed by burning, even when empty.
13.2 Additional Information	None

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><i>(b)- ORM-D may be applicable within the USA for package sizes less than 30kg.</i></p> <p><i>(c)- Consult with transport provider.</i></p> <p><i>(d)- Check relevant regulations for Special Provisions.</i></p> <p>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</p>			

SECTION 15: REGULATORY INFORMATION

15.1 Safety, Health And Environmental Regulations/Legislation Specific For The Substance Or Mixture

15.1.1 EU regulations

Authorizations And/Or Restrictions On Use	Consult the supplier.
European Union (EINECS/ELINCS)	All chemicals listed.
German WGK Number	Not available

15.1.2 National Regulations

USA

TSCA (Toxic Substance Control Act)	Listed
SARA 311/312 - Hazard Categories	None
SARA 302 - Extremely Hazardous Substances	Listed - None
SARA 313 - Toxic Chemicals	Listed - None
CERCLA (Comprehensive Environmental Response Compensation and Liability Act)	Listed - None
CAA (Clean Air Act 1990)	Listed - None
CWA (Clean Water Act)	Listed - None
State Right to Know Lists	Listed as required.

Proposition 65 (California) - This product contains the following substance(s) known to the state of California to cause cancer and/or reproductive harm: Crystalline silica in trace amounts only.

Canada		
WHMIS Classification	Not classified.	
Canada (DSL/NDSL)	Listed. - DSL	
Canada Ingredient Disclosure List (CIDL)	Listed as required.	
15.2	Chemical Safety Assessment	Possible Irritant (Respiratory system – dust only)

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16.

LEGEND

ACGIH	American Conference of Governmental Industrial Hygienists	NA	not applicable, not available
AICS	Australian Inventory of Chemical Substances	NIOSH	National Institute for Occupational Safety and Health
ANSI	American National Standards Institute	ND	not determined
atm	atmosphere (pressure unit)	NFPA	National Fire Prevention Association
BOD	biological oxygen demand	NTP	National Toxicology Program
CAS	Chemical Abstracts Service	OC	open cup
CC	closed cup	OSHA	Occupational Safety and Health Administration
CDTA	Chemical Drug and Trafficking Act	Part	partition
COC	Cleveland Open Cup	PEL	permissible exposure limits
COD	chemical oxygen demand	ppb	parts per billion
coeff.	coefficient	PPE	personal protective equipment
CFR	Code of Federal Regulations	ppm	parts per million
CPR	cardio-pulmonary resuscitation	psi	pounds per square inch
DEA	Drug Enforcement Agency	RCRA	Resource Conservation and Recovery Act
DOT	Department of Transportation	RQ	Reportable quantity
DSCL	Dangerous Substances Classification and Labeling	RTK	Right to Know
EEC	European Economic Community	SARA	Superfund Amendments and Reauthorization Act
FDA	Food and Drug Administration	STEL	short-term exposure limit
HMIS	Hazardous Materials Information System	SUSDP	Standard for the Uniform Scheduling of Drugs and Poisons (Australia)
IARC	International Agency for Research on Cancer	TCC	Tagliabue Closed Cup
IDLH	immediate danger to life or health	TDG	Transportation of Dangerous Goods
kg	kilogram	TPQ	threshold planning quantity
L	liter	TQ	threshold quantity
LC50	median lethal concentration	TSCA	Toxic Substances Control Act
LD50	median lethal dose	TWA	time-weighted average
LEL	lower explosive limit	UEL	upper explosive limit
mg	milligram	WES	Workplace Exposure Standard (New Zealand)
mL	milliliter	WHMIS	Workplace Hazardous Material Information System

References: RTECS, CAS Registry, EINECS/ESIS, *Casarett & Doull's Toxicology*, *Goldfrank's Toxicological Emergencies*, Manufacturer Information

Risk Phrases And Safety Phrases

None

Hazard Statement(s) and Precautionary Statement(s)

None

Training Advice: None

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 Sections 2,4,6,7 and 8 of the MSDS 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 this potential hazard. Consult recognized experts when necessary in order to determine any possible hazard.

Please read the MSDS for specific information concerning these hazards, and contact us with any further questions. We appreciate your continued business.

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