

# 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


<b>1.1</b>	<b>Product Identifier</b>	<b>Duramedia® 50, Duramedia® SC, Duralite® II-S</b>
	<b>GHS Product Identifier</b>	<b>Duramedia® 50, Duramedia® SC, Duralite® II-S</b>
	<b>Chemical Name</b>	<b>Fired Ceramic Mass Finishing Media</b>
	<b>Trade Name</b>	<b>See Product Identifier</b>
	<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>	
	Identified Use(s)	Consult the supplier.
	Uses Advised Against	Users are recommended to seek further advice.
<b>1.3</b>	<b>Details Of The Supplier Of The Safety Data Sheet</b>	
	<b>Company Identification</b>	<b>Washington Mills Ceramic Corp.</b>
	<b>Address</b>	1801 Buffalo Avenue Niagara Falls, NY 14302
	<b>Telephone</b>	(716) 278-6600
	<b>E-Mail (Competent Person)</b>	info@washingtomills.com
<b>1.4</b>	<b>Emergency Telephone Number – CHEMTREC</b>	
		<b>(800)424-9300 (USA/Canada), 703-527-3887 (International)</b>

### SECTION 2: HAZARDS IDENTIFICATION


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

<b>2.4 Additional Information</b>	<b>See Section 16 for additional dust hazard information.</b>	
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 <sup>1</sup>					
Hazardous Ingredient(s)	%W/W	CAS No.	EC No.	REACH Registration No.	Hazard Pictogram(s) and Hazard Statement(s)
Magnesium Aluminum Silicate	>90	1302-88-1	Not referenced	NA	None          None
Silicon Carbide	<10	409-21-2	206-991-8	NA	 3.2/2, 3.3/2, 3.8/3; H315, H319, H335
Impurities <sup>2</sup>	<5	NR	NR	NR	None          None

EC Classification No. 67/548/EEC <sup>1</sup>					
Hazardous Ingredient(s)	%W/W	CAS No.	EC No.	REACH Registration No.	Hazard Pictogram(s) and Risk (R) Phras(es)
Magnesium Aluminum Silicate	>90	1302-88-1	Not referenced	NA	None          None
Silicon Carbide	<10	409-21-2	206-991-8	NA	 Xn ; R36/37/38
Impurities <sup>2</sup>	<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.  
<sup>1</sup>Not all listed components are present in all formulations. <sup>2</sup>Contains trace amounts of crystalline silica.

## SECTION 4: FIRST AID MEASURES

<b>4.1 Description Of First Aid Measures</b>	
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.
<b>4.2 Most Important Symptoms And Effects, Both Acute And Delayed</b>	<b>Acute:</b> Cough and Shortness of breath. <b>Delayed And Chronic Effects:</b> Similar to acute effects, but with potentially irreversible symptoms, due to the possibility of emphysemic illness.
<b>4.3 Indication Of The Immediate Medical Attention And Special Treatment Needed</b>	Treat symptomatically.

## Duramedia® 50, Duramedia® SC, Duralite® II-S

## 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 <sup>3</sup> )	STEL (ppm)	STEL (mg/m <sup>3</sup> )	Note:
Magnesium Aluminum Silicate	1302-88-1	NE	NE	NE	NE	OSHA PEL
		NE	NE	NE	NE	ACGIH
Silicon Carbide	409-21-2	NE	10 (Inhalable) 3 (respirable)	NE	NE	ACGIH
		NE	15 (Total Dust) 5 (Respirable)	NE	NE	OSHA





**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 <sup>3</sup>	ACGIH Limit

**8.1.3 PNECs And DNELs**

No PNECs or DNELs available for product.

**8.2.2 Personal Protection Equipment**

	<b>Respirators</b>	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.
	<b>Eye Protection</b>	Avoid eye contact. Wear protective eyewear (goggles, face shield, or safety glasses).
	<b>Gloves</b>	Wear protective gloves.
	<b>Body Protection</b>	Avoid skin contact. Wear suitable protective clothing and gloves.
	<b>Engineering Controls</b>	Provide sufficient ventilation, particularly in closed rooms. Maintain employee exposure below applicable permissible exposure limits.
	<b>Other</b>	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	Yellow solid ceramic in various shapes.	Color	Yellow.
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)	2.5
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**

<b>10.1 Reactivity</b>	Slight
<b>10.2 Chemical Stability</b>	Stable under normal conditions.
<b>10.3 Possibility Of Hazardous Reactions</b>	Not available
<b>10.4 Conditions To Avoid</b>	Not available
<b>10.5 Incompatible Materials</b>	Not available
<b>10.6 Hazardous Decomposition Product(s)</b>	Not available

## SECTION 11: TOXICOLOGICAL INFORMATION

Substance	CAS No.	LD <sub>50</sub> (Oral, Rat)	LC <sub>50</sub> (Inhalation, Rat)	LD <sub>50</sub> (Dermal, Rat)
Magnesium Aluminum Silicate	1302-88-1	No data	No data	No data
Silicon Carbide	409-21-2	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.

##### Irritation

Causes eye irritation. May cause respiratory irritation. May cause transient irritation.

##### Corrosivity

Not to be expected.

##### Sensitisation

No data.

##### Repeated Dose Toxicity

No data.

##### Carcinogenicity

Contains trace amounts of crystalline silica.

##### Mutagenicity

No data.

##### Toxicity For Reproduction

No data.

#### 11.2 Other Information

No Data.

## SECTION 12: ECOLOGICAL INFORMATION

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

## SECTION 13: DISPOSAL CONSIDERATIONS

13.1	<b>Waste Treatment Methods</b>	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	<b>Additional Information</b>	None

**SECTION 14: TRANSPORT INFORMATION**

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

**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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