Safety data sheet

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

Printing date: 11.02.2015 Revision: 11.02.2015

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

1.1	**Product Identifier**	**Duramedia 50, Duramedia SC, Duralite II-S**
	GHS Product Identifier	**Duramedia 50, Duramedia SC, Duralite II-S**
	Chemical Name	Codierite and Silicon Carbide; 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**	
	Application of the substance / the mixture	Preparation of ceramic parts and coatings
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@washingtonmills.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 (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 CLP regulation.

2.1.2 Classification according to Directive 67/548/EEC & 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 (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 Pictogram(s)	Not Regulated	**Signal Word(s)**	Not Regulated

Hazard-determining components of labelling: None

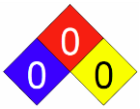
Hazard Statement(s) Not Regulated

Precautionary Statement(s) Not Regulated.

Hazard description:

WHMIS-symbols: Not hazardous under WHMIS.

NFPA ratings (scale 0 - 4)



Health = 0
Fire = 0
Reactivity = 0

HMIS-ratings (scale 0 - 4)

Health = 0
Fire = 0
Reactivity = 0

HMIS Long Term Health Hazard Substances None of the ingredients are listed.

2.3 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 Components:

Hazardous Ingredient(s)	%W/W	CAS No.	EC No.	REACH Registration No.	Index No.	Hazard Pictogram(s) and Hazard Statement(s)	
silicon carbide	3 - 10	409-21-2	206-991-8	NA	NA	None	substance with a Community workplace exposure limit

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

Notable Trace Components (≤ 0,1% w/w):

Hazardous Ingredient(s)	%W/W	CAS No.	EC No.	REACH Registration No.	Hazard Pictogram(s) and Hazard Statement(s)	
cristobalite	≤ 0,1	14464-46-1	238-455-4	NA		Xn R48/20
						Carc. 1A, H350; STOT RE 2, H373

SECTION 4: FIRST AID MEASURES

4.1 Description of First Aid Measures

General Information: No special measures required

After Inhalation: Provide fresh air; consult doctor in case of complaints.

After Skin Contact: Brush off loose particles from skin. Wash with soap and water.

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 No further relevant information available.

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**	For large spills, use respiratory protective device against the effects of fumes/dust/aerosol. Avoid formation of dust. Wear protective equipment. Keep unprotected persons away. 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 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

	Precautions For Safe	Use only in well ventilated areas. Do not dry clean dust covered objects and floors.
7.1	**Handling**	Wash thoroughly with plenty of water. Any unavoidable deposit of dust must be regularly removed. Prevent formation of dust.
	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:	No special requirements.
	Information About Storage in One Common Storage Facility:	Store away from oxidizing agents. Store away from foodstuffs. Do not store together with acids.
	Further information about storage conditions:	Keep container tightly sealed.
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

Ingredients with limit values that require monitoring at the workplace:			
silicon carbide	409-21-2	PEL (USA)	Long-term value: 15* 5** mg/m³ fibrous dust: *total dust **respirable fraction
		REL (USA)	Long-term value: 10* 5** mg/m³

			*total dust **respirable fraction
		TLV (USA)	Long-term value: 10* 3** mg/m³ fibrous dust:0,1 f/cc; nonfibrous:*inh.,**resp.
		EL (Canada)	Long-term value: 10* 3** mg/m³ *inhalable;**respirable
		EV (Canada)	Long-term value: 10* 3** mg/m³, 0,1f/cc*** ppm nonfibrous: *inh.,**resp.; ***fibrous, resp.

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. Keep away from foodstuffs, beverages and feed. Do not inhale dust / smoke / mist. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes. Avoid close or long term contact with the skin.
	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.
	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.
	Limitation and supervision of exposure into the environment	No further relevant information available.
	Risk Management Measures	See Section 7 for additional information. No further relevant information available.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information On Basic Physical And Chemical Properties

Appearance	Solid	Color	Yellow
Odor	Odourless	Odor Threshold (ppm)	Not available
Melting Point (°C) / Freezing Point (°C)	>2012°F/ >1100 °C	Boiling Point/Boiling Range (°C)	>3632 °F/ >2000 °C
Flash Point (°C)	No Data	Explosive Limit Ranges	Not available
Auto Ignition Temperature (°C)	370 °C	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)	2,77 g/cm³
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

Substance	CAS No.	LD_{50} (Oral, Rat)	LD_{50} (Dermal, Rat)
silicon dioxide, chemically prepared	7631-86-9	10000 mg/kg	5000 mg/kg

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.
CMR effects (carcinogenity, mutagenicity and toxicity for reproduction):	Contains suspect carcinogen in less than reportable quantities.

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 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 manufacturer 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.
Recommended cleansing agents:	Water, if necessary together with cleansing agents.

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

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:	14464-46-1 cristobalite	
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)	7631-86-9 silicon dioxide, chemically prepared	3

TLV (Threshold Limit Value established by ACGIH)	1344-28-1 aluminium oxide 409-21-2 silicon carbide	A4 A2
MAK (German Maximum Workplace Concentration)	1344-28-1 aluminium oxide 409-21-2 silicon carbide 14464-46-1 cristobalite	2 2 1
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%)	7631-86-9 silicon dioxide, chemically prepared 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:

- 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)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent

Sources
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