

According to 1907/2006/EC (REACH), 1272/2008/EC (CLP), Printing date: 11.02.2015 and US GHS

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

Revision: 11.02.2015

Duramedia 30, 40, WK, C,HE, TB, PK-40 **Product Identifier** 1.1 **GHS Product Identifier** Duramedia 30, 40, WK, C,HE, TB, PK-40

Chemical Name Fired Ceramic Mass Finishing Media

Trade Name See Product Identifier

CAS No. Not available **EINECS No.** Not available **REACH Registration No.** Not available

1.2 Relevant Identified Uses Of The Substance Or Mixture And Uses Advised Against

No further relevant information available.

Application of the

Preparation of ceramic parts and coatings substance / the mixture

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

(716) 278-6600 Telephone

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

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 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 Labelling according to Regulation (EC) No 1272/2008

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 Signal Not Regulated Not Regulated

Pictogram(s)

Word(s)

Hazard-determining components of labelling: Not Regulated Hazard

Statement(s)

Not Regulated

Hazard description:

WHMIS-Not hazardous under WHMIS.

symbols:

NFPA ratings

(scale 0 - 4)

Health = 0Fire = 0Reactivity = 0

HMIS-ratings (scale 0 - 4)



Health = 0Fire = 0Reactivity = 0

HMIS Long

Term Health Hazard

13463-67-7 titanium dioxide

Substances

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2.3 **Other Hazards**

> Results of PBT PBT: Not applicable. and vPvB vPvB: Not applicable.

assessment

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Dangerous Components:

| zangoreae eempenene. | | | | | | |
|-------------------------|-------|------------|-----------|-----------|------------------------|---|
| Hazardous Ingredient(s) | %W/W | CAS No. | EC No. | Index No. | Hazard Pictogram(s) | Hazard Statement(s) and Risk (R) Phrase(s) |
| aluminium oxide | < 20 | 1344-28-1 | 215-691-6 | NA | None | substance with a Community workplace exposure limit |
| titanium dioxide | 0 - 2 | 13463-67-7 | 236-675-5 | 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. | Hazard Pictogram(s) | Hazard Statement(s) and Risk (R) Phrase(s) |
|-------------------------|-------|------------|-----------|------------------------|--|
| | | | | × | Xn R48/20 |
| cristobalite | ≤ 0,1 | 14464-46-1 | 238-455-4 | | 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 oxygen treatment if affected person has difficulty breathing.

After Skin Contact: Brush off loose particles from skin. Immediately rinse with 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

No further relevant information available.

Treatment Needed

SECTION 5: FIRE-FIGHTING MEASURES

5.1 **Extinguishing Media**

Suitable Extinguishing

Use fire extinguishing methods suitable to surrounding conditions.

Agents

Unsuitable Extinguishing None.

Agents

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| 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, | For large spills, use respiratory protective device against the effects of |
|-----|----------------------------------|--|
| | Protective Equipment And | fumes/dust/aerosol. Avoid formation of dust. Wear protective |
| | Emergency Procedures | equipment. Keep unprotected persons away. Ensure adequate ventilation. |
| 6.2 | Environmental Precautions | No special measures required. |
| 6.3 | Methods And Material For | Pick up mechanically. Send for recovery or disposal in suitable |
| | Containment And Cleaning Up | 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 | Wash thoroughly with plenty of water. Any unavoidable deposit of dust must be regularly removed. Prevent formation of dust. | |
| | Information About | No special measures required. |
| | Fire – and explosion protection | |
| 7.2 | Conditions For Safe S | torage, Including Any Incompatibilities: |
| | Requirements to be | No special requirements. |
| | Met by Storerooms and Receptacles: | |
| | Information About Storage in One | Store away from foodstuffs. Store away from oxidizing agents. Do not store together with acids. |
| | Common Storage | |
| | Facility: | |
| | Further information | Keep container tightly sealed. |
| | about storage conditions: | |
| 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. 3.1 Control Parameters | | | | | | |
|---|-------------------|---------------------|---|--|--|--|
| Ingredients with limi | t values that red | quire monitoring at | the workplace: | | | |
| | | PEL (USA) | Long-term value: 15*; 15** mg/m³ *Total dust; ** Respirable fraction | | | |
| | | REL (USA) | Long-term value: 10* 5** mg/m³ as Al*Total dust**Respirable/pyro powd./welding f. | | | |
| aluminium oxide | 1344-28-1 | TLV (USA) | Long-term value: 10* 5** mg/m³ as Al*Total dust**Respirable/pyro powd./welding f. Long-term value: 1* mg/m³ as Al; *as respirable fraction Long-term value: 1,0 mg/m³ | | | |
| | | EL (Canada) | Long-term value: 1,0 mg/m³ respirable, as Al | | | |
| | | EV (Canada) | Long-term value: 10 mg/m³ total dust | | | |

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| | | PEL (USA) | Long-term value: 15* mg/m³ *total dust | | | |
|------------------|------------|-------------|--|--|--|--|
| | | REL (USA) | See Pocket Guide App. A | | | |
| titanium dioxide | 13463-67-7 | TLV (USA) | Long-term value: 10 mg/m³ withdrawn from NIC | | | |
| | | EL (Canada) | *total dust See Pocket Guide App. A Long-term value: 10 mg/m³ withdrawn from NIC Long-term value: 10* 3** mg/m³ *total dust;**respirable fraction; IARC 2B Long-term value: 10 mg/m³ | | | |
| | | EV (Canada) | Long-term value: 10 mg/m³ total dust | | | |

DNELs No further relevant information available. PNECs No further relevant information available.

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

| 8.2 | Exposure Contro | Exposure Controls | | | |
|-------|---|---|--|--|--|
| 8.2.2 | Personal Protect | ive 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 close or long term contact with the skin. Avoid contact with the eyes. | | | |
| | 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 | Safety glasses. | | | |
| | Protection of Hands | Wear protective gloves. | | | |
| | Body Protection | Protective work clothing. | | | |
| | Limitation and supervision of exposure into the environment | | | | |
| | 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 | c Physical And Chemic | al 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) | 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: | 2,5 g/cm ³ |
| | Solubility (Water) | Insoluble | Solubility (Other) | Not available |
| | Partition Coefficient | Not available | Viscosity (mPa.s) | Not available |

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(N-Octanol/Water)

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9.2 Other Information No further relevant information available

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

10.2 **Chemical Stability**

> **Thermal Decomposition / conditions** No decomposition if used according to specifications.

to be avoided:

10.3 Possibility of Hazardous Reactions Reacts with strong acids and alkali. Reacts with strong

oxidising agents.

10.4 **Conditions To Avoid** Prevent formation of dust. Store away from oxidising agents.

10.5 **Incompatible Materials** No further relevant information available.

10.6 Hazardous Decomposition Product(s) Possible in traces.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

Acute toxicity:

Primary Irritant Effect:

On the skin: No irritant effect.

On the eve: Slight irritant effect on eyes. Sensitisation: No sensitizing effects known.

Additional toxicological The product is not subject to classification according to the calculation information: 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 known or suspect carcinogens when inhaled. Product is in

non-inhalable form and is non-classifiable as a carcinogen.

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.

Results of PBT and vPvB PBT: Not applicable. 12.5 **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

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:

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

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Recommendation: Disposal must be made according to official regulations. Recommended cleansing Water, if necessary together with cleansing agents.

agents:

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SECTION 14: TRANSPORT INFORMATION

| Land Transport (ADR/RID) | (c)(d) | Land Transport (Within U | JSA) (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.

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 None of the ingredients are listed.

substances)

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: References to chemical components listed below are

based on unbound respirable particles and are not generally applicable to product as supplied.

13463-67-7 titanium dioxide 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 13463-67-7 titanium dioxide

3

2B

⁽c)- Consult with transport provider.

⁽d)- Check relevant regulations for Special Provisions.

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and US GHS

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| TLV (Threshold Limit Value established by | 1344-28-1 aluminium oxide | A4 |
|---|--|----|
| ACGIH) | 13463-67-7 titanium dioxide | A4 |
| MAK (German Maximum Workplace | 1344-28-1 aluminium oxide | 2 |
| Concentration) | 13463-67-7 titanium dioxide | 3A |
| | 14464-46-1 cristobalite | 1 |
| 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 | |
| , | 7631-86-9 silicon dioxide, chemically prepared | |
| Other regulations, limitations and prohibitiv | e regulations | |
| Substances of very high concern (SVHC) according to REACH, Article 57 | None of the ingredients are listed. | |

| 15.2 Chemical Safety Ass | sment A Chemical S out. | afety Assessment has not been carried |
|--------------------------|-------------------------|---------------------------------------|
|--------------------------|-------------------------|---------------------------------------|

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)

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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

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