



## SECTION 4 : FIRST AID MEASURES

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<b>Eye Contact:</b>	Immediately flush eyes with plenty of water for at least 15 to 20 minutes. Ensure adequate flushing of the eyes by separating the eyelids with fingers. Get medical attention, if irritation or symptoms of overexposure persists.
<b>Skin Contact:</b>	Immediately wash skin with soap and plenty of water. Get medical attention if irritation develops or persists.
<b>Inhalation:</b>	If dust from cutting or drilling is inhaled, remove the affected person to fresh air. If symptoms persist, get medical attention.
<b>Ingestion:</b>	Accidental ingestion of this material is unlikely. If this does occur, watch person for several days to make sure intestinal blockage does not occur. If symptoms persist, call a physician.
<b>Note to Physicians:</b>	No information available.

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## SECTION 5 : FIRE FIGHTING MEASURES

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<b>Flammable Properties:</b>	Non Flammable.
<b>Flash Point:</b>	Does not apply.
<b>Auto Ignition Temperature:</b>	Not determined.
<b>Lower Flammable/Explosive Limit:</b>	Not available.
<b>Upper Flammable/Explosive Limit:</b>	Not available.
<b>Extinguishing Media:</b>	Use any extinguishing media appropriate for the surrounding fires.
<b>Unsuitable Media:</b>	None.
<b>Protective Equipment:</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

### **NFPA Ratings:**

NFPA Health:	0
NFPA Flammability:	0
NFPA Reactivity:	1
NFPA Other:	

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## SECTION 6 : ACCIDENTAL RELEASE MEASURES

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<b>Methods for containment:</b>	Containment of this material should not be necessary.
<b>Methods for cleanup:</b>	Shovel or sweep up for re-use or disposal. Avoid creating dusty conditions. Evaluate residue to determine if it is a hazardous waste by characteristic. Dispose of in accordance with Local, State, Federal and Provincial regulations.

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## SECTION 7 : HANDLING and STORAGE

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<b>Handling:</b>	Always HANDLE AND STORE wheels in a CAREFUL manner. Always VISUALLY INSPECT all wheels before mounting. Always CHECK MACHINE SPEED against the established maximum safe operating speed MARKED ON THE WHEEL. Always CHECK MOUNTING FLANGES for equal and correct diameter. Always USE MOUNTING BLOTTERS. Always be sure WORK REST is properly adjusted. Always USE A SAFETY GUARD covering at least one-half of the grinding wheel. Always allow NEWLY MOUNTED WHEELS to run at operating speed, with guard in place, for at least one minute before grinding. Always TURN OFF COOLANT before stopping wheel to avoid creating an out-of-balance wheel.
<b>Storage:</b>	No special storage conditions required.
<b>Hygiene Practices:</b>	Wear suitable gloves and eye/face protection.

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## SECTION 8 : EXPOSURE CONTROLS, PERSONAL PROTECTION - EXPOSURE GUIDELINES

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**Engineering Controls:**

General dilution ventilation and/or local exhaust ventilation should be provided as necessary to maintain exposures below occupational exposure limits.

- Eye/Face Protection:** Always WEAR SAFETY GLASSES or some type of eye protection when grinding.
- Skin Protection Description:** Protective gloves.  
Long sleeved shirt and long pants.
- Respiratory Protection:** When workers are facing airborne particulate/dust concentrations above the exposure limit they must use appropriate certified respirators.  
A properly fitted NIOSH approved disposable N 95 type dust respirator or better is recommended.
- Other Protective:** Use of this product may create elevated sound levels. Hearing protection should be worn where required (see OSHA 29 CFR 1910.134 and other applicable regulations).
- General Hygiene Considerations:** Handle in accordance with good industrial hygiene and safety practice.  
Remove and wash contaminated clothing before re-use.  
Avoid getting dust into boots and gloves through wrist bands and pant tucks.

EXPOSURE GUIDELINES

Ingredient	Guideline OSHA	Guideline NIOSH	Guideline ACGIH	Quebec Canada	Ontario Canada
Silicon carbide	PEL-TWA: 15 mg/m <sup>3</sup> Total particulate/dust (T) PEL-TWA: 5 mg/m <sup>3</sup> Respirable fraction (R)		TLV-TWA: 10 mg/m <sup>3</sup> Inhalable fraction (I) TLV-TWA: 3 mg/m <sup>3</sup> Respirable fraction (R) TLV-TWA: 0.1 f/cc Respirable fraction (R)	VEMP-TWA: 10 mg/m <sup>3</sup> Total particulate/dust (T)	OEL-TWAEV: 10 mg/m <sup>3</sup> Total particulate/dust (T) OEL-TWAEV: 3 mg/m <sup>3</sup> Respirable fraction (R) OEL-TWAEV: 10 mg/m <sup>3</sup> Inhalable fraction (I) OEL-TWAEV: 0.1 f/cc Respirable fraction (R)
Amorphous Silica, Fused	OSHA PEL-TWA 0.1 mg/m <sup>3</sup>	REL-TWA: 0.05 mg/m <sup>3</sup> (Respirable)	ACGIH TLV-TWA 0.1 mg/m <sup>3</sup>	VEMP-TWA: 0.1 mg/m <sup>3</sup> Respirable fraction (R)	OEL-TWAEV: 0.1 mg/m <sup>3</sup> Respirable fraction (R)
Ingredient	Alberta Canada	Mexico	British Columbia Canada		
Silicon carbide	OEL-TWA: 10 mg/m <sup>3</sup>	LMPE-PPT: 10 mg/m <sup>3</sup> LMPE-CT: 20 mg/m <sup>3</sup>	OEL-TWA: 10 mg/m <sup>3</sup> Inhalable fraction (I) OEL-TWA: 3 mg/m <sup>3</sup> Respirable fraction (R) OEL-TWA: 0.1 f/cc Respirable fraction (R)		
Amorphous Silica, Fused	OEL-TWA: 0.1 mg/m <sup>3</sup> Respirable fraction (R)	MPE-PPT: 0.1 mg/m <sup>3</sup> Respirable fraction (R)			

SECTION 9 : PHYSICAL and CHEMICAL PROPERTIES

- Physical State Appearance:** Solid article.
- Odor:** Odorless.
- Flash Point:** Does not apply.
- Auto Ignition Temperature:** Not determined.

SECTION 10 : STABILITY and REACTIVITY

- Chemical Stability:** Stable under normal conditions.
- Hazardous Polymerization:** Hazardous polymerization does not occur.
- Special Decomposition Products:** In use, dust and decomposing odors may be generated. In most cases, the material removed from the workplace will be significantly greater than the grinding wheel components. Coolants may produce other decomposition products.

SECTION 11 : TOXICOLOGICAL INFORMATION

- Acute Toxicity:** This product has not been tested for its toxicity.

<b>Carcinogens:</b>	<b>ACGIH</b>	<b>NIOSH</b>	<b>OSHA</b>	<b>IARC</b>	<b>NTP</b>
<b>Silicon carbide</b>	Not listed				
<b>Amorphous Silica, Fused</b>	No Data		No Data	No Data	No Data

**Silicon carbide :**

RTECS Number: VW0450000

Inhalation: No Data

**Zirconium silicate :**

RTECS Number: ZH9000000

**Amorphous Silica, Fused :**

RTECS Number: VV7328000

Inhalation: Inhalation - Rat TCLo: 197 mg/m3/6H/26W (Intermittent) [Lungs, Thorax, or Respiration - Changes in lung weight] (RTECS)

**SECTION 12 : ECOLOGICAL INFORMATION**

Biodegradation: No environmental information found for this product.

**SECTION 13 : DISPOSAL CONSIDERATIONS**

Waste Disposal: Use standard landfill methods consistent with applicable Federal, State, Provincial and local laws.

**SECTION 14 : TRANSPORT INFORMATION**

DOT Shipping Name: Not regulated as hazardous material for transportation.

DOT UN Number: Not regulated as hazardous material for transportation.

IATA Shipping Name: Not regulated as hazardous material for transportation.

Canadian Shipping Name: This product is Not Regulated under the Transportation of Dangerous Goods Act. (CAN).

**SECTION 15 : REGULATORY INFORMATION**

**Silicon carbide :**

TSCA Inventory Status: Listed

Massachusetts: Listed

Pennsylvania: Listed

Canada DSL: Listed

EC Number: 206-991-8

**Zirconium silicate :**

TSCA Inventory Status: Listed

Canada DSL: Listed

Canada IDL: Identified under the Canadian Hazardous Products Act Ingredient Disclosure List: 0.1%.1729(1734)

EC Number: 239-019-6

**Amorphous Silica, Fused :**

TSCA Inventory Status: Listed

EINECS Number: 262-373-8

Massachusetts: Listed

Rhode Island: Listed  
Canada DSL: Listed  
Canada IDL: Identified under the Canadian Hazardous Products Act Ingredient Disclosure List: 0.1%.1404(1487)  
EC Number: 262-373-8

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## SECTION 16 : ADDITIONAL INFORMATION

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### HMIS Ratings:

HMIS Health Hazard: 1  
HMIS Fire Hazard: 0  
HMIS Reactivity: 1  
HMIS Personal Protection: X

SDS Creation Date: December 15, 2010  
SDS Revision Date: July 01, 2013  
SDS Format: ANSI

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