

Precautionary Statements: Not applicable.

Hazards not otherwise classified that have been identified during the classification process:

Route of Exposure: Eyes. Skin. Inhalation. Ingestion.

Eye: Causes eye irritation.

Skin: Causes skin irritation.

Inhalation: Prolonged or excessive inhalation may cause respiratory tract irritation.

Ingestion: May be harmful if swallowed. May cause vomiting.

Chronic Health Effects: Prolonged or repeated contact may cause skin irritation.

Signs/Symptoms: Overexposure may cause headaches and dizziness.

Target Organs: Eyes. Skin. Respiratory system. Digestive system.

Aggravation of Pre-Existing Conditions: None generally recognized.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures:

Chemical Name	CAS#	Ingredient Percent
Silicon carbide	409-21-2	60 - 100 by weight
Amorphous Silica, Fused	60676-86-0	30 - 60 by weight

Notes : Actual grinding tests with wheels known to contain Crystalline Silica did not produce any respirable free Crystalline Silica.

SECTION 4 : FIRST AID MEASURES

Description of necessary measures:

Eye Contact: Immediately flush eyes with plenty of water for at least 15 to 20 minutes. Ensure adequa by separating the eyelids with fingers. Remove contacts if present and easy to do. Contir attention, if irritation or symptoms of overexposure persists.

Skin Contact: Immediately wash skin with soap and plenty of water. Get medical attention if irritation develops or persists.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration or give oxygen Seek immediate medical attention.

Ingestion: If swallowed, do NOT induce vomiting. Call a physician or poison control center immediat by mouth to an unconscious person.

Most important symptoms/effects, acute and delayed:

Other First Aid: Not applicable.

Indication of immediate medical attention and special treatment needed:

Note to Physicians: Not applicable.

SECTION 5 : FIRE FIGHTING MEASURESSuitable and unsuitable extinguishing media:

Suitable Extinguishing Media: Use alcohol resistant foam, carbon dioxide, dry chemical, or water fog or spray when fighting material.

Unsuitable extinguishing media: Not applicable.

Specific hazards arising from the chemical:

Hazardous Combustion Byproducts: Not applicable.

Unusual Fire Hazards: Not applicable.

Special protective equipment and precautions for fire-fighters:

Protective Equipment: As in any fire, wear Self-Contained Breathing Apparatus (SCBA), MSHA/NIOSH (approved) protective gear.

Fire Fighting Instructions: Not applicable.

NFPA Ratings:

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

SECTION 6 : ACCIDENTAL RELEASE MEASURESPersonal precautions, protective equipment and emergency procedures:

Personal Precautions: Evacuate area and keep unnecessary and unprotected personnel from entering the spill area. Use personal protective equipment as listed in Section 8.

Environmental precautions:

Environmental Precautions: Avoid runoff into storm sewers, ditches, and waterways.

Methods and materials for containment and cleaning up:

Spill Cleanup Measures: Not applicable.

Methods and materials for containment and cleaning up:

Methods for containment: Contain spills with an inert absorbent material such as soil or sand. Prevent from spreading by other means. Provide ventilation.

Methods for cleanup: Clean up spills immediately observing precautions in the protective equipment section. Place spill in a container for disposal. Provide ventilation. After removal, flush spill area with soap and water to remove residue.

Reference to other sections:

Other Precautions: Not applicable.

SECTION 7 : HANDLING and STORAGE

Precautions for safe handling:

Handling: Use with adequate ventilation. Avoid breathing vapor and contact with eyes, skin and clo

Hygiene Practices: Wash thoroughly after handling. Avoid contact with eyes and skin. Avoid inhaling vapor c

Conditions for safe storage, including any incompatibilities:

Storage: Store in a cool, dry, well ventilated area away from sources of heat, combustible materia substances. Keep container tightly closed when not in use.

SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

EXPOSURE GUIDELINES:

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

Appropriate engineering controls:

Engineering Controls: Use appropriate engineering control such as process enclosures, local exhaust ventilator controls to control airborne levels below recommended exposure limits. Good general ve sufficient to control airborne levels. Where such systems are not effective wear suitable li equipment, which performs satisfactorily and meets OSHA or other recognized standards procedures for selection, training, inspection and maintenance of the personal protective

Individual protection measures:

Eye/Face Protection: Wear appropriate protective glasses or splash goggles as described by 29 CFR 1910.133, protection regulation, or the European standard EN 166.

Skin Protection Description: Chemical-resistant gloves and chemical goggles, face-shield and synthetic apron or cove prevent contact with eyes, skin or clothing.

Respiratory Protection: A NIOSH approved air-purifying respirator with an organic vapor cartridge or canister ma certain circumstances where airborne concentrations are expected to exceed exposure li by air purifying respirators is limited. Use a positive pressure air supplied respirator if the uncontrolled release, exposure levels are not known, or any other circumstances where a may not provide adequate protection.

Other Protective: Facilities storing or utilizing this material should be equipped with an eyewash facility and

PPE Pictograms:



SECTION 9 : PHYSICAL and CHEMICAL PROPERTIES

PHYSICAL AND CHEMICAL PROPERTIES:

Physical State Appearance:	Solid article.
Color:	Not determined.
Odor:	Odorless.
Odor Threshold:	Not determined.
Boiling Point:	Not determined.
Melting Point:	Not determined.
Density:	Not determined.
Solubility:	Not determined.
Vapor Density:	Not determined.
Vapor Pressure:	Not determined.
Evaporation Rate:	Not determined.
pH:	Not determined.
Viscosity:	Not determined.
Coefficient of Water/Oil Distribution:	Not determined.
Flammability:	Not determined.
Flash Point:	None.
Lower Flammable/Explosive Limit:	Not applicable.
Upper Flammable/Explosive Limit:	Not applicable.
Auto Ignition Temperature:	Not applicable.
Explosive Properties:	Excessive dust accumulation could present a potential combustible dust hazard.
VOC Content:	Not determined.

SECTION 10 : STABILITY and REACTIVITY

Reactivity:

Reactivity: Not applicable.

Chemical Stability:

Chemical Stability: Stable under normal temperatures and pressures.

Possibility of hazardous reactions:

Hazardous Polymerization: Not reported.

Conditions To Avoid:

Conditions to Avoid: Heat, flames, incompatible materials, and freezing or temperatures below 32 deg. F.

Incompatible Materials:

Incompatible Materials: Oxidizing agents. Strong acids and alkalis.

Hazardous Decomposition Products:

Special Decomposition Products: Not applicable.

SECTION 11 : TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION:

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

Carcinogens:						
	ACGIH	NIOSH	OSHA	IARC	NTP	
Silicon carbide	Not listed					
Amorphous Silica, Fused	No Data	NIOSH carcinogen	No Data	No Data	No Data	

Silicon carbide :

RTECS Number: "VW0450000"

Inhalation: No Data

Amorphous Silica, Fused :

RTECS Number: "VV7328000"

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

SECTION 12 : ECOLOGICAL INFORMATION

Ecotoxicity:

Ecotoxicity: Please contact the phone number or address of the manufacturer listed in Section 1 for i ecotoxicity.

SECTION 13 : DISPOSAL CONSIDERATIONS

Description of waste:

Waste Disposal: Consult with the US EPA Guidelines listed in 40 CFR Part 261.3 for the classifications of h disposal. Furthermore, consult with your state and local waste requirements or guideline compliance. Arrange disposal in accordance to the EPA and/or state and local guidelines.

SECTION 14 : TRANSPORT INFORMATION

UN number:	Not regulated as hazardous material for transportation.
UN proper shipping name:	Not regulated as hazardous material for transportation.
Transport hazard class(es):	Not regulated as hazardous material for transportation.
Packing group:	Not regulated as hazardous material for transportation.
Environmental hazards:	Not regulated as hazardous material for transportation.
Special precautions for user:	Not regulated as hazardous material for transportation.

SECTION 15 : REGULATORY INFORMATION

Safety, health and environmental regulations specific for the product:

Inventory Status

	EINECS Number	Canada DSL	TSCA Inventory Status	
Silicon carbide		Listed	Listed	
Amorphous Silica, Fused	262-373-8	Listed	Listed	

Amorphous Silica, Fused :

Canada IDL: Identified under the Canadian Hazardous Products Act Ingredient Disclosure List: 0.1%.1

Silicon carbide :

EC Number: 206-991-8

Amorphous Silica, Fused :

EC Number: 262-373-8

State Right To Know

	RI	PA	MA	
Silicon carbide		Listed	Listed	
Amorphous Silica, Fused	Listed		Listed	

SECTION 16 : ADDITIONAL INFORMATION

HMIS Ratings:

HMIS Health Hazard:	1
HMIS Fire Hazard:	1
HMIS Reactivity:	0

Heal
Fire
Reac
Pers

SDS Creation Date: August 15, 2009
SDS Revision Date: March 31, 2015
MSDS Revision Notes: GHS Update
SDS Format: In accordance to U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

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