
 844-784-6518

 716-235-5286

METALLOGRAPHY WORLD CORPORATION
dba **METALLURGICAL SUPPLIES CORP**
PO BOX 516
BUFFALO, NY 14207
metallurgicalsupplies.com

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1. Identification

1.1. Product identifier

Product Name: **Vitrified Bonded STICK**
Product Code: Bonded Abrasives

[Details of the supplier of the safety data sheet](#)
[Metallography World Corp dba Metallurgical Supplies](#)
[PO Box 516](#)
[Buffalo, NY 14207](#)
[1-844-784-6518](#)

2. Hazards identification

2.1. Classification of the chemical in accordance with CFR 1910.1200(d)(f):

Signal Word: Not applicable.
GHS Class: Not classified as hazardous according to OSHA Hazard Communication Standard, 29 CFR 1910.1200
Hazard Statements: Not applicable.
Precautionary Statements: Not applicable.

2.2. 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.

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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.

3. Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	EC Num.
Silicon carbide	(CAS No) 409-21-2	60 - 100	206-991-8
Amorphous Silica, Fused	(CAS No) 60676-86-0	10 - 30	262-373-8

4 : First Aid Measures

4.1. Description of first aid measures

Eye Contact: 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. Remove contacts if present and easy to do. Continue rinsing. Get medical 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 by trained personnel. Seek immediate medical attention.

Ingestion: If swallowed, do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

4.2. Most important symptoms and effects, both acute and delayed

Other First Aid: Not applicable.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

5. Firefighting measures

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5.1. Extinguishing media

Suitable extinguishing media: Use alcohol resistant foam, carbon dioxide, dry chemical, or water fog or spray when fighting fires involving this material.

Unsuitable extinguishing media: Not applicable.

5.2. Special hazards arising from the substance or mixture

Hazardous Combustion Byproducts

5.3. Advice for firefighters

Firefighting instructions: As in any fire, wear Self-Contained Breathing Apparatus (SCBA), MSHA/NIOSH (approved or equivalent) and full protective gear.

Protection during firefighting: Not applicable.

NFPA Ratings:

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



6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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

6.2. Environmental precautions

Avoid runoff into storm sewers, ditches, and waterways.

6.3. Methods and material for containment and cleaning up

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

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

6.4. Reference to other sections

Not applicable

7. Handling and storage

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7.1. Precautions for safe handling

Precautions for safe handling: Use with adequate ventilation. Avoid breathing vapor and contact with eyes, skin and clothing.

Hygiene measures: Wash thoroughly after handling. Avoid contact with eyes and skin. Avoid inhaling vapor or mist.

7.2. Conditions for safe storage, including any incompatibilities

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

8. Exposure controls/personal protection

8.1. Exposure Guidelines

Ingredient	Guideline OSHA	Guideline NIOSH	Guideline ACGIH	Quebec Canada	Ontario Canada
Silicon carbide	PEL-TWA: 15 mg/m3 Total particulate/dust (T) PEL-TWA: 5 mg/m3 Respirable fraction (R)		TLV-TWA: 10 mg/m3 Inhalable fraction (I) TLV-TWA: 3 mg/m3 Respirable fraction (R) TLV-TWA: 0.1 f/cc Respirable fraction (R)	VEMP-TWA: 10 mg/m3 Total particulate/dust (T)	OEL-TWAEV: 3 mg/m3 Respirable fraction (R) OEL-TWAEV: 10 mg/m3 Inhalable fraction (I) OEL-TWAEV: 0.1 f/cc Respirable fraction (R)
Amorphous Silica, Fused	OSHA PEL-TWA 0.1 mg/m3	REL-TWA: 0.05 mg/m3 (Respirable)	ACGIH TLV-TWA 0.1 mg/m3	VEMP-TWA: 0.1 mg/m3 Respirable fraction (R)	OEL-TWAEV: 0.1 mg/m3 Respirable fraction (R)
Ingredient	Alberta Canada	Mexico	British Columbia Canada		
Silicon carbide	OEL-TWA: 10 mg/m3	LMPE-PPT: 10 mg/m3 LMPE-CT: 20 mg/m3	OEL-TWA: 10 mg/m3 Inhalable fraction (I) OEL-TWA: 3 mg/m3 Respirable fraction (R) OEL-TWA: 0.1 f/cc Respirable fraction (R)		
Amorphous Silica, Fused	OEL-TWA: 0.1 mg/m3 Respirable fraction (R)	MPE-PPT: 0.1 mg/m3 Respirable fraction (R)			

Appropriate engineering controls:

Engineering Controls: Use appropriate engineering control such as process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Good general

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ventilation should be sufficient to control airborne levels. Where such systems are not effective wear suitable personal protective equipment, which performs satisfactorily and meets OSHA or other recognized standards. Consult with local procedures for selection, training, inspection and maintenance of the personal protective equipment.

Individual protection measures:

- Eye/Face Protection:** Wear appropriate protective glasses or splash goggles as described by 29 CFR 1910.133, OSHA eye and face protection regulation, or the European standard EN 166.
- Skin Protection Description:** Chemical-resistant gloves and chemical goggles, face-shield and synthetic apron or coveralls should be used to prevent contact with eyes, skin or clothing.
- Respiratory Protection:** A NIOSH approved air-purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.
- Other Protective:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

PPE Pictograms:



9. Physical and chemical properties

9.1. Information on basic 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.



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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.

10. Stability and reactivity

10.1. Reactivity

Not applicable.

10.2. Chemical stability

Stable under normal temperatures and pressures

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Heat, flames, incompatible materials, and freezing or temperatures below 32 deg. F.

10.5. Incompatible materials

Oxidizing agents. Strong acids and alkalis

10.6. Hazardous decomposition products

Not applicable.


11. Toxicological information


11.1. Information on toxicological effects

Acute toxicity: Not classified

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



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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 Respiration - Changes in lung weight] (RTECS)

12. Ecological information

12.1 Ecotoxicity:

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

13. Disposal considerations

13.1. Waste treatment methods

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

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.

15. Regulatory information



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15.1. US Federal Safety, health and environmental regulations specific for the product:

	<u>TSCA Inventory Status</u>	EINECS Number	Canada DSL
Silicon carbide	Listed	206-991-8	Listed
Amorphous Silica, Fused	Listed	262-373-8	Listed

Silicon carbide:

EC Number: 206-991-8

Amorphous Silica, Fused:

EC Number: 262-373-8

16. Other information

16.1 HMIS Ratings:

HMIS Ratings:

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

Health Hazard	1
Fire Hazard	1
Reactivity	0
Personal Protection	

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