



Safety Data Sheet

Product Name: Aluminum Oxide Dressing Stick
MSDS Date: 05/2015

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Aluminum Oxide Dressing Stick
General Use: dressing sintered diamond tools.

24 HR. Emergency Telephone Numbers:

Manufacturer:
His Glassworks, Inc.
2000 Riverside Drive, Suite 19
Asheville NC 28804
800-914-7463 toll free
828-254-2581 fax

ChemTel, Inc.
Toll Free: 800-255-3924
International: +813-248-0585

2. HAZARDS IDENTIFICATION

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

3. COMPOSITION AND INFORMATION ON INGREDIENTS

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Mixtures:

CHEMICAL NAME	CAS#	INGREDIENT PERCENTAGE	EC NUM.
Calcium Oxide	1305-78-8	1-5 by weight	215-138-9
Resin	9003-35-4	5-10 by weight	
Aluminum Oxide, Non-fibrous	1344-28-1	60-100 by weight	215-691-6

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

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 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, move 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.

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

5. FIRE-FIGHTING MEASURES

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Suitable and unsuitable 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

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 fire, wear Self-Contained Breathing Apparatus (SCBA), MSHA/NIOSH (approved or equivalent) and full protective gear.

Fire Fighting Instructions: Not applicable

NFPA Ratings:

NFPA Health:	1
NFPA Flammability:	1
NFPA Reactivity	0

6. ACCIDENTAL RELEASE MEASURES

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Personal precautions, protective equipment and emergency procedures:

Personal Precautions: Evacuate area and keep unnecessary and unprotected personnel from entering the spill area. Use proper 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:

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.

Reference to other sections:

Other Precautions: Not applicable

7. HANDLING AND STORAGE

Precautions for safe handling:

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

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

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

EXPOSURE GUIDELINES:

Ingredient	Guideline OSHA	Guideline ACGIH	Quebec Canada	Ontario Canada	Alberta Canada
Calcium Oxide	PEL-TWA: 5 mg/ m ³	TLV-TWA: 2 mg/ m ³	VEMP-TWA: 2 mg/ m ³		OEL-TWA: 2 mg/ m ³
Aluminum Oxide, Non-fibrous	PEL-TWA: 5 mg/ m ³ Respirable fraction (R) PEL-TWA: 15 mg/ m ³ Total particulate/dust (T)	TLV-TWA: 10 mg/ m ³	VEMP-TWA: 10 mg/ m ³ Total particulate/dust (T)	OEL-TWAEV: 10 mg/ m ³ Total particulate/dust (T)	OEL-TWA: 10 mg/ m ³
Ingredient	Mexico	British Columbia Canada			
Calcium Oxide	LMPE-PPT: 2mg/ m ³	OEL-TWA: 2 mg/ m ³			
Aluminum Oxide, Non-fibrous	MPE-PPT: 0.1 mg/ m ³ Respirable fraction (R)	OEL-TWA: 2 mg/ m ³ Respirable fraction (R) OEL-TWA: 10 mg/ m ³ OEL-TWA: 2 mg/ m ³ Total particulate/dust (T) OEL-STEL: 20 mg/ m ³ Total particulate/dust (T)			

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 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:

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Eye/Face Protection: Wear appropriate protective glasses or splash goggles as describes 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

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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
Evaporation Rate:	Not determined
pH:	Not determined
Viscosity:	Not determined
Coefficient of Water/Oil:	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

10. STABILITY AND REACTIVITY

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Reactivity:

Reactivity: Not applicable

Chemical stability:

Chemical Stability: Stable under normal temperatures and pressures

Possibilities 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:

Hazardous Decomposition Products: Not applicable

11. TOXICOLOGICAL INFORMATION

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Toxicological information:

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

Carcinogens:

ACGIH

NIOSH

OSHA

IARC

NTP

Mexico

Aluminum Oxide, Non-fibrous

A4 Not classifiable as a Human Carcinogen

No data

No data

No data

No data

A4 Not classifiable as a Human Carcinogen

Calcium Oxide:

RTECS Number: EW3100000

Resin:

RTECS Number: SM8542500

Skin: Administration onto the skin – Rat LD50: > 2 gm/kg [Details of toxic effects not reported other than lethal dose value] (RTECS)

Ingestion: Oral – Rat LD50: > 5gm/kg [Details of toxic effects not reported other than lethal dose value] (RTECS)

Aluminum Oxide, Non-fibrous:

RTECS Number: ED1000000

12. ECOLOGICAL INFORMATION

Ecotoxicity:

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

13. DISPOSAL CONSIDERATIONS

Description of waste:

Waste Disposal: Consult with the US EPA Guidelines listed in 40 CFR Part 261.3 for the classification 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 agencies.

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

His Glassworks, Inc. - Part A MSDS Sheets
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Safety, health and environmental regulations specific for the product:

Inventory Status

Japan ENCS

EINECS Number

South Korea KECL

Australia AICS

Canada DSL

Calcium Oxide

Listed

Resin

Listed

Aluminum Oxide, Non-Fibrous

(1) - 23

262-373-8

KE-01012

Listed

Listed

TSCA Inventory Status

16. OTHER INFORMATION

	HMIS III
Health:	1
Flammability	1
Reactivity:	0
Personal Protection	0