
GRS

Accu-Finish®

PRODUCT LINE

**MATERIAL
SAFETY
DATA
SHEET**

GLENDO
CORPORATION

900 Overlander Road
P.O. Box 1153
Emporia, KS 66801
Phone: 620-343-1084 • 800-835-3519
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002-957

I. Product Identification

Trade Name: Diamond Files
 Part Numbers: 001-714, 001-719
 Manufacturer's Name: Glendo Corporation
 Address: 900 Overlander Rd.
 Emporia, KS 66801
 Phone: 620-343-1084

EMERGENCY HAZARD RATING

HEALTH: **2** FIRE: **N**
 REACTIVITY: **0** SPECIFIC HAZARD: **X**

II. Composition

Chemical Name: Nickel
 %: <0.1
 Reg. by OSHA: Yes
 CAS#: 7440-02-0
 OSHA PEL: 1.0
 ACGIH / TLV: mg/m3 as Sn
 Carcinogen: No

III. Physical Properties

Boiling point: 2900 °C
 Freezing point: 1455 °C
 Specific gravity: 8.908
 Vapor pressure @ 20 °C: N/A
 Percent volatile by volume: None
 Vapor density: N/A
 Evaporation rate: N/A
 Solubility in other solvent: insoluble
 Solubility in alcohol: N/A
 Appearance and odor: Silver metal bars, no odor

IV. Corrosivity and Reactivity Data

Stability: Stable
 Polymerization: Will not occur
 Incompatibility: N/A
 Decomposition products: Nitrogen Oxides
 Conditions to be avoided: N/A

V. Health, First Aid and Medical Data

Chronic Toxicity: IARC indicated nickel refining and certain nickel compounds were cancer-causing but could not state with certainty which forms of nickel may be carcinogenic. NTP lists nickel powder, nickel subsulfide, nickel oxide, nickel carbonate, nickel carbonyl, and nickelocene as suspect carcinogens.

PRIMARY ROUTE(S) OF ENTRY:**INHALATION:**

Effects of Overexposure: May cause respiratory irritation.
 First Aid and Medical Information: Move exposed individual to fresh air. Seek medical attention as needed.

INGESTION:

Effects of Overexposure: May cause digestive irritation, nausea.

First Aid and Medical Information: Never give fluids or induce vomiting if patient is unconscious or having convulsions. Seek medical attention as needed.

SKIN:

Effects of Overexposure: May produce a dermatitis known as "nickel itch". Skin sensitization is the most commonly seen toxic reaction to nickel and nickel compounds.

(CONTINUED NEXT COLUMN)

First Aid and Medical Information: Flush with flowing water for 15 minutes, then wash area with mild soap and water. If irritation develops seek medical attention.
EYE:

Effects of Overexposure: May cause irritation.
 First Aid and Medical Information: Immediately flush eyes with flowing water for at least 15 minutes. Get medical attention.

OTHER POTENTIAL HEALTH RISKS: None known.**VI. Special Precautions in Handling / Storage**

Precautions to be taken in handling and storage: None. Normal warehouse storage.

VII. Fire and Explosion Hazard Data

Flash point: N/A
 Flammable limits: N/A
 LEL: N/A
 UEL: N/A

Extinguishing Media: Dry chemical, carbon dioxide, foam. Water spray can be used to cool adjacent surfaces.

Special fire fighting procedures: N/A

Conditions of Flammability: Requires a continuous flame source to ignite and sustain combustion.

Explosion Data:

Impact Sensitivity: Not sensitive to mech. impact
 Static Discharge: Potential dust ignition explosion hazard at 10 micron size or less

VIII. Spill, Leak and Disposal Procedures

Steps to be taken in case of leaks or spills: Sweep or gather up material, avoid breathing dust. Waste disposal method:

Product is not a RCRA hazardous waste.
 Disposing in landfill is acceptable.

IX. Regulatory Information

Listed is the chemical substance subject to supplier notification requirements.

EPCRA 313 WHMIS CA-65 FLA RI
 Nickel - 0.1 0.1 0.1

CA-P65: Chemical substance identified under the California Proposition 65 column is known to the State of California to cause cancer and/or reproductive toxicity. TSCA Status: This product complies with the Chemical Substance Inventory requirements of the US EPA Toxic Substances Control Act. WHMIS Classification: D2

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Accu-Finish®

I. Product Identification

Trade Name: Spray Diamond
 Part Numbers: 002-752, 002-753, 002-754,
 002-755, 001-782

Manufacturer's Name: Glendo Corporation
 Address: 900 Overlander Rd.
 Emporia, KS 66801
 Phone: 620-343-1084

EMERGENCY HAZARD RATING

HEALTH: 1 **FIRE: 3**
REACTIVITY: 2 **SPECIFIC HAZARD: X**

II. Composition

Chemical Names:

Isopropyl alcohol - %: >1.0
 Reg. by OSHA: NO
 CAS#: 67-63-0
 OSHA PEL: N/A
 ACGIH / TLV: 983mg/m3
 Carcinogen: NO

Industrial diamond - %: >1.0
 Reg. by OSHA: NO
 CAS#: 7782-40-3
 OSHA PEL: N/A
 ACGIH / TLV: 10.0mg/m3 (PNOC)
 Carcinogen: NO

III. Physical Properties

Boiling point: 190 °F
 Melting point: 110 °F
 Specific gravity: 0.8
 Vapor pressure: N/A
 Percent volatile by volume: 50%
 Vapor density: 2.0
 Evaporation rate: 2.5
 Solubility in other solvent: N/A
 Solubility in alcohol: 100%
 Appearance and odor: Diamond slurry,
 alcohol odor

IV. Corrosivity and Reactivity Data

Stability: Stable
 Polymerization: Will not occur
 Incompatibility (materials to avoid): Oxidizers
 Decomposition products: N/A
 Conditions to be avoided: Heat, flames, other
 sources of ignition

V. Health, First Aid and Medical Data

PRIMARY ROUTE(S) OF ENTRY:

INHALATION:

Effects of Overexposure:
 May cause dizziness, headache,
 difficulty in breathing.

First Aid and Medical Information:
 Move to fresh air. Seek medical
 attention as needed.

INGESTION:

Effects of Overexposure:
 May cause nausea, headache or dizziness.

First Aid and Medical Information:
 Induce vomiting. Seek medical attention.

(CONTINUED NEXT COLUMN)

SKIN:

Effects of Overexposure:
 May cause irritation.
 First Aid and Medical Information:
 Flush with large volume of water for 15
 minutes. Seek medical attention as needed.

EYE:

Effects of Overexposure:
 May cause irritation.
 First Aid and Medical Information:
 Flush with large volume of water for 15
 minutes. Seek medical attention as needed.

OTHER POTENTIAL HEALTH RISKS: None known.**VI. Special Precautions in Handling / Storage**

Precautions to be taken in handling and storage:
 Store as a flammable liquid. (NFPA Rating =3)

Other precautions:
 Utilize neoprene gloves, safety glasses with
 side shields, and protective apron when
 handling. Vapors are heavier than air.

VII. Fire and Explosion Hazard Data

Flash point: 57°F / 14°C
 Method used: N/A
 Flammable limits: N/A
 LEL: N/A
 UEL: N/A

Extinguishing Media: Foam, dry chemical, or
 carbon dioxide.

Special fire fighting
 procedures: N/A

Explosion potential: Closed containers
 may explode if subjected
 to heat.

VIII. Spill, Leak and Disposal Procedures

Steps to be taken in case of leaks or spills:
 Use any non-combustible absorbent.

Waste disposal method:
 Observe all applicable local, state,
 and federal regulations.

IX. Regulatory Information

Proper shipping name: Chemical N.O.S.
 Shipping label requirement: Flammable Liquid

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**Accu-Finish®**

I. Product Identification

Trade Name: Cleaning Stick
Part Numbers: 001-783

Manufacturer's Name: Glendo Corporation
Address: 900 Overlander Rd.
Emporia, KS 66801
Phone: 620-343-1084

EMERGENCY HAZARD RATING

HEALTH: 1 **FIRE: 0**
REACTIVITY: 0 **SPECIFIC HAZARD: X**

II. Composition / Information on Ingredients

Substance	%	CAS#
Aluminum Oxide, non-fibrous	30.0 - 95.0	1344-28-1
Cobalt Aluminate (*)	.1 - .2	1333-88-6
Amorphous Silica, Fused	2.0 - 30.0	60676086-0
Silicon Carbide	30.0 - 95.0	409-21-2
Sulfur	15.0 - 40.0	7704-34-9

(*) This substance is regulated under Section 3131 of the Emergency Planning and Community Right-to-Know Act of 1986 and the Canadian National Pollution Reduction Initiative (NPRI). The grinding wheel may be comprised of only some of the above.

III. Hazards Identification**INHALATION ACUTE EXPOSURE EFFECTS**

Dust may be slightly irritating to eyes and respiratory tract at high concentrations.

INHALATION CHRONIC EXPOSURE EFFECTS

May affect breathing capacity, for products containing Amorphous Silica, Fused, there is limited evidence in animals that excessive and prolonged exposure to this chemical may cause pulmonary fibrosis.

EYE CONTACT ACUTE EXPOSURE EFFECTS

Some may experience skin irritation from dust.

INGESTION ACUTE EXPOSURE EFFECTS

No known adverse effects, ingestion not recommended.

IV. Physical Properties

Appearance and odor: Solid article, Odorless.

V. Health, First Aid and Medical Data**PRIMARY ROUTE(S) OF ENTRY:**

INHALATION: Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical attention immediately.

SKIN CONTACT: Wash affected areas with soap and water. Obtain medical assistance.

EYE CONTACT: Wash with large amounts of water. Obtain first aid and medical assistance, if needed.

INGESTION: Call poison control center, hospital emergency room or physician immediately.

OTHER POTENTIAL HEALTH RISKS: None known.**VI. Special Precautions in Handling / Storage**

Precautions to be taken in handling and storage:
Store in a cool dry place.

Other precautions: N/A

VII. Fire and Explosion Hazard Data

LEL: N/A

UEL: N/A

Extinguishing Media: Not Flammable

Hazard rating source: NFPA

VIII. Spill, Leak and Disposal Procedures

Steps to be taken in case of leaks or spills:

Solid material does not spill or leak.

(CONTINUED NEXT COLUMN)

Waste disposal method:

Observe all applicable local, state, and federal regulations.

IX. Exposure Controls / Personal Protection**VENTILATION PROTECTION**

Handle with adequate ventilation. See OSHA 29 CFR 1910.94 (ventilation) and 29 CFR 1910.1000 (Air contaminants).

RESPIRATORY PROTECTION

Respirators are required when airborne contaminant levels exceed the TLV(s).

EYE PROTECTION

Always WEAR SAFETY GLASSES or some type of eye protection when grinding.

OTHER PROTECTION

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).

X. Stability and Reactivity

INCOMPATIBILITIES: Avoid acids of all types with a pH<4.0.

DECOMPOSITION: In use, dusts and decomposing odors may be generated. In most cases, the material removed from the workpiece will be significantly greater than the grinding wheel components.

Coolants may produce other decomposition products.

XI. Toxicological Information**CARCINOGENICITY**

Silica, Amorphous, Fused - IARC-3, NIOSH-X LD50/LC50. Values are not appropriate or available

XII. Transport Information

This product is not hazardous as defined by the Department of Transportation (USA). This product is "Not Regulated" under the Transportation of Dangerous Goods Act (CAN)

X. Regulatory Information

Aluminum Oxide, non-fibrous	MG/M3	15.00	10.00	10.00
Cobalt Aluminate (*)	MG/M3	0.05	0.02	0.00
Amorphous Silica, Fused	MG/M3	0.10	0.10	0.00
Silicon Carbide	MG/M3	10.00	10.00	10.00
Sulfur	MG/M3	0.00	0.00	0.00

Exposure limit descriptions: N/A

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Accu-Finish®

I. Product Identification

Trade Name: Wheel Wetting Agent
 Part Numbers: 001-659, 001-660
 Manufacturer's Name: Glendo Corporation
 Address: 900 Overlander Rd.
 Emporia, KS 66801
 Phone: 620-343-1084

EMERGENCY HAZARD RATING

HEALTH: 2 **FIRE: 2**
REACTIVITY: 3 **SPECIFIC HAZARD: X**

II. Composition

Chemical Names:

Sodium Borate Hydrate -
 %: >1.0
 Reg. by OSHA: Yes
 CAS#: 1303-96-4
 OSHA PEL: N/A
 ACGIH / TLV: 5mg/m3
 Carcinogen: No

Sodium Nitrate - %: >1.0
 Reg. by OSHA: Yes
 CAS#: 07632-00-0
 OSHA PEL: N/A
 ACGIH / TLV: N/A
 Carcinogen: NO

III. Physical Properties

Boiling point: N/A
 Melting point: N/A
 Specific gravity: N/A
 Vapor pressure: N/A
 Percent volatile by volume: N/A
 Vapor density: N/A
 Evaporation rate: N/A
 Solubility in other solvent: 5%
 Solubility in alcohol: N/A
 Appearance and odor: Off-white powder mixture,
 slight odor

IV. Corrosivity and Reactivity Data

Stability: Stable
 Polymerization: Will not occur
 Incompatibility
 (materials to avoid): Reducing agents,
 Flammable materials.
 Decomposition products: Nitrogen Oxides
 Conditions to be avoided: Excessive heat, contact
 with flammable materials,
 electrical shock.

V. Health, First Aid and Medical Data

PRIMARY ROUTE(S) OF ENTRY:

INHALATION:

Effects of Overexposure:
 May cause respiratory irritation.
 First Aid and Medical Information:
 Remove to fresh air. Seek medical
 attention as needed.

INGESTION:

Effects of Overexposure:
 May cause digestive irritation, nausea.
 First Aid and Medical Information:
 If conscious, induce vomiting. Seek medical
 attention as needed.

(CONTINUED NEXT COLUMN)

SKIN:

Effects of Overexposure:
 May cause irritation.
 First Aid and Medical Information:
 Wash with mild soap and water.

EYE:

Effects of Overexposure:
 May cause irritation.
 First Aid and Medical Information:
 Flush with water for 15 minutes. Seek medical
 attention as needed.

OTHER POTENTIAL HEALTH RISKS: None known.**VI. Special Precautions in Handling / Storage**

Precautions to be taken in handling and storage:
 Keep containers closed and away from
 flammable materials. Store in a cool dry place.

Other precautions:

Utilize neoprene gloves, goggles and outer
 protective covering when handling.

VII. Fire and Explosion Hazard Data

Flash point: N/A
 Method used: N/A
 Flammable limits: N/A
 LEL: N/A
 UEL: N/A
 Extinguishing Media: Water spray or fog
 Special fire fighting procedures: N/A
 Explosion potential: May react violently
 with reducers,
 flammable or
 electric shock.

VIII. Spill, Leak and Disposal Procedures

Steps to be taken in case of leaks or spills:
 Collect dry spilled material. Use water only
 for final clean-up.
 Waste disposal method:
 Observe all applicable local, state, and
 federal regulations.

IX. Regulatory Information

Proper shipping name: N/A
 Shipping label requirement: N/A

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Accu-Finish®

I. Product Identification

Trade Name: Ceramic Lap
 Part Numbers: 001-671, 002-417
 Manufacturer's Name: Glendo Corporation
 Address: 900 Overlander Rd.
 Emporia, KS 66801
 Phone: 620-343-1084

EMERGENCY HAZARD RATING

HEALTH: **0** FIRE: **0**
 REACTIVITY: **0** SPECIFIC HAZARD: **X**

II. Hazardous Ingredients

Pigments: N/A
 Catalyst: N/A
 Vehicle: N/A
 Solvents: N/A
 Additives: N/A
 Base Metal: N/A
 Alloys: N/A
 Metallic coatings: N/A
 Filler/Coating/Core Flux: N/A

III. Physical Properties

Boiling point: None
 Melting point: N/A
 Specific gravity: 3.75
 Vapor pressure: N/A
 Percent volatile by volume: N/A
 Vapor density: N/A
 Evaporation rate: N/A
 Solubility in other solvent: Totally insoluble
 Solubility in alcohol: Totally insoluble
 Appearance and odor: White ceramic disk,
 odorless

IV. Corrosivity and Reactivity Data

Stability: Stable
 Polymerization: Will not occur
 Incompatibility (materials to avoid): None know
 Decomposition products: None
 Conditions to be avoided: N/A

V. Health, First Aid and Medical Data**PRIMARY ROUTE(S) OF ENTRY:****INHALATION:**

Effects of Overexposure:
 No lasting effects of over exposure to
 the dust is known to exist.

First Aid and Medical Information:
 None required.

EYE:

Effects of Overexposure:
 Dust may cause irritation.
 First Aid and Medical Information:
 Flush with water for 15 minutes. Seek medical
 attention as needed.

OTHER POTENTIAL HEALTH RISKS: None known.

VI. Special Precautions in Handling / Storage

Precautions to be taken in handling and storage:
 Store in a cool dry place.

Other precautions: N/A

VII. Fire and Explosion Hazard Data

Flash point: None
 Method used: N/A
 Flammable limits: N/A
 LEL: N/A
 UEL: N/A
 Extinguishing Media: Not Flammable
 Special fire fighting procedures: N/A
 Explosion potential: N/A

VIII. Spill, Leak and Disposal Procedures

Steps to be taken in case of leaks or spills:
 Solid material does not spill or leak.
 Waste disposal method:
 Any solid waste disposal method is acceptable.

IX. Regulatory Information

Proper shipping name: N/A
 Shipping label requirement: N/A

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GIRS **Accu-Finish®**

