

<b>Alpha Resources Inc.</b>
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**Safety Data Sheet (SDS)**

Revision Date: May 8, 2015

**SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION****Diamond Discs and Wafering Blades**

AM0396, AM0397, AM0398, AM0399, AM0400, AM0401, AM0402, AM0403, AM0404, AM0405, AM0406, AM1136, AM1137, AM1138

This product is intended for laboratory use.

**Alpha Resources Inc. 3090 Johnson Rd. Stevensville, MI 49127 (269)465-5559**

**CHEMTREC Emergency Phone Number: (800) 424-9300**

Signal Word: N/A

**SECTION 2— HAZARDS IDENTIFICATION**

This chemical is considered to be hazardous according to the GHS classification for the HazCom standard OSHA HCS 29 CFR 1910.1200. This material should be treated cautiously.

Even materials that are considered non-hazardous have been known to react unpredictably. Safety is always first when performing laboratory tasks.

When used this product will create dust. This dust can be an irritant to skin, eyes, and respiratory. Wear the proper personal protective equipment when working with this material. Safety glasses, protective clothing, and a respirator should be used while working with these products.

Also, while in use this product may produce sparks and debris. This process shouldn't be done in areas that are near flammable substances.

**SECTION 3— COMPOSITION, INFORMATION ON INGREDIENTS****Hazardous substance required for disclosure.**

Component	CAS #	Common %
Copper	1344-28-1	<90
Tin	409-21-2	<90
Diamond	N/A	<25
Aluminum	7429-90-5	<90
Cubic Boron Nitride	10043-11-5	<10
Iron	7439-89-6	<90
Aluminum oxide	1344-28-1	<10
Nickel	7440-02-0	<10
Silicon Carbide	409-21-3	<10
Graphite powder	7782-42-5	<30

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**SECTION 4— FIRST AID MEASURES**


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**If inhaled:** Remove victim to fresh air and keep at rest in a position comfortable for breathing (P304+P340). Seek medical attention.

**If in eyes:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing (P305+P351+P338). **If eye irritation persists:** Get medical advice or attention (P337+P313).

**If on skin:** Wash with plenty of water. (P302+P352). If persists seek medical attention and bring label.

**If swallowed:** Wash out mouth with water if the person is able to do so. Call a doctor or poison center.

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**SECTION 5 — FIRE FIGHTING MEASURES**


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**Appropriate Extinguishing Media:** Use media appropriate for surrounding areas of fire.

**Inappropriate Extinguishing Media:** N/A

**Specific Hazards Arising from Chemical:** N/A

**Fire Fighting Instructions:** Evacuate area. Firefighters should use standard protective equipment including self-contained breathing apparatus. Water spray can be a good way to cool fire exposed surfaces and protect personnel. This product isn't flammable.

**When heated might emit toxic fumes.**

**Flash Point:** N/A                      **Auto-ignition temperature:** N/A

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**SECTION 6 — ACCIDENTAL RELEASE MEASURES**


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**Personal Precautions:** Use suitable personal protective equipment when cleaning up any spills.

**Clean-up Method:** Collect the material and dispose of according to local, regional, state, and federal regulations. Using damp cloth wipe up spill area. Avoid dust generation.

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**SECTION 7 — HANDLING AND STORAGE**


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**Handling:** Avoid any contact with bare skin, clothing, and eyes. Wash all areas after handling material. Proper ventilation is required when using this product. Check machine speed against established maximum safe operating speed labeled on wheel. Check the mounting flange for equal and correct diameter. Always use mounting blotters. Visually inspect wheels before mounting. Use safety guards covering nearly half of the wheel. Allow newly mounted wheel to run at operating speed with guard in place for at least a minute before proceeding to cut or grind.

**Storage:** This product should be stored in a cool, dry, and well-ventilated place.

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**SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION**


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**Exposure Limit Values:**

Chemical Name	CAS #	OSHA PEL-TWA mg/m <sup>3</sup>	ACGIH TLV-TWA mg/m <sup>3</sup>
Copper	7440-50-8	1	1
Tin	7440-31-5	2	2
Diamond	7782-40-3	10	10
Aluminum	7429-90-5	15	n/a
Cubic Boron	10043-11-5	10	10

Nitride			
Iron	7439-89-6	1	1
Aluminum oxide	1344-28-1	15	10
Nickel	7440-02-0	1	1
Silicon Carbide	409-21-2	10	10
Graphite powder	7782-42-5	10	2

**Engineering Controls:** Proper ventilation must be available to be certain exposure limits are not exceeded.

**Personal Protection:** Wear a NIOSH applicable certified respirator to limit exposure to materials.

**Hand Protection:** Glove suitability will differ depending on the end use of product.

**Eye protection:** Safety glasses with side shields are necessary. Eye wash station should be in close proximity to work area. Safety shower should also be nearby.

**Skin and Body Protection:** Leather apron, chaps, or shoe coverings to shield from heavy spark showers.

**Hygiene:** Wash hands and areas of possible exposure after handling material especially before eating, drinking, and smoking. The work clothing should also be washed regularly to remove any contaminants. Dispose of contaminated clothing that can't be deemed safe.

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## SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

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**Note: Physical and chemical properties are provided for safety, health, and environmental considerations only and may not represent the products specifications. Contact supplier for additional information.**

Appearance: variable color disc

Odorless

Specific Gravity: >1

Melting Point: N/A

Relative Density: N/A

Vapor Density: N/A

Vapor pressure: N/A

Solubility: insoluble in water

Boiling Point: N/A

Flash point: N/A

Auto-Ignition Temperature: N/A

Explosive limits, LEL (vol.%): N/A

Explosive limits, UEL (vol.%): N/A

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## SECTION 10 — STABILITY AND REACTIVITY

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Stable material at normal laboratory conditions.

**Avoid:** Keep away from extreme temperatures, sparks, or open flame.

**Incompatible:** Strong Lewis or mineral acids. Strong bases or oxidants.

**Hazardous Decomposition:** None    **Hazardous Polymerization:** None

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## SECTION 11 — TOXICOLOGICAL INFORMATION

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### Information on toxicological effects

**Acute toxicity:** no data available

**Skin corrosion/irritation:** no data available

**Serious eye damage/eye irritation:** no data available

**Respiratory or skin sensitization:** no data available

**Germ cell mutagenicity:** no data available

**Carcinogenicity:** This product is or contains components that are not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**Reproductive toxicity:** no data available

**Specific target organ toxicity - single exposure:** no data available

**Specific target organ toxicity - repeated exposure:** no data available

**Aspiration hazard:** no data available

**Potential health effects**

**Inhalation** May be harmful if inhaled. May cause respiratory tract irritation

**Ingestion** May be harmful if swallowed. Can cause stomach pain, vomiting, and diarrhea.

**Skin** May cause skin irritation.

**Eyes** Dust or fumes may cause eye irritation.

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**SECTION 12 — ECOLOGICAL INFORMATION**

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**Eco-toxicity Data:** No data

**Mobility in Soil:** No data

**Bio-accumulative Potential:** No data

**Persistence and Degradability:** No data

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**SECTION 13 — DISPOSAL CONSIDERATIONS**

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Waste disposal should be done in compliance with existing federal, state and local environmental regulations. Do not contaminate any streams, lakes, or ponds.

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**SECTION 14 — TRANSPORT INFORMATION**

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Not regulated for land/air/sea transport by DOT/TDG/IMDG/IATA

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**SECTION 15 — REGULATORY INFORMATION**

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N/A

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**SECTION 16 — OTHER INFORMATION**

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The data and information as stated was furnished by the manufacturer/vendor/supplier of this product. Alpha Resources Inc. cannot warrant the accuracy of this information and shall not be responsible or liable for any damage that may result, should any of the information be erroneous.