

SAFETY DATA SHEET

SECTION 1 - Identification of the Product and Company

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| 1.1 | Product Name: | 87-1720, 87-1721, 87-1722, 87-1723 Kim-Kut Super-Maxx Grinding Wheel |
| 1.2 | Product Use: | For light material removal, blending and polishing |
| 1.3 | Company Details: | Kimball Midwest |
| | Address | 4800 Roberts Road Columbus, OH 43228 |
| | Phone | 800-233-1294 |
| | Emergency Phone Number | Chemtrec 800-233-1294 |

SECTION 2 - Hazard Information

2.1 Precautionary statements

Wear Respirator, eye protection, and protective clothing when using product
Product will produce sparks and debris when in use, avoid using product near reactive
or flammable substances or electrical equipment
Discard if product comes in contact with water

2.2 Description of Hazards

Wheel dust is a respiratory irritant
Wheel dust and fiberglass reinforcement is a skin irritant

Fiberglass

Fiberglass in wheels have a diameter larger than 10 um and are considered non-respirable.

Phenol-formaldehyde Coating

Chronic health effect: Excessive exposure can cause skin sensitization and decreased lung capacity

Eye Contact: Can cause eye irritation

Skin Contact: Can cause skin irritation

Inhalation can cause irritation to mucous membranes and respiratory tracts.

Ingestion: Coating contains cryolite. Large doses of cryolite can cause severe nausea, vomiting, diarrhea, abdominal burning and cramp-like pains.

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| SECTION 3 - Composition |
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| <u>Ingredient</u> | <u>Formula</u> | <u>% Weight</u> | <u>OSHA Regulated</u> | <u>Cas #</u> |
|--------------------------|----------------------------------|-----------------|-----------------------|--------------|
| Aluminum Oxide | Al ₂ O ₃ | 15-30 | No | 1344-28-1 |
| Zirconium Oxide | ZrO ₂ | 0-15 | No | 1314-23-4 |
| Cured Phenolic resin | | 0-20 | No | 15096-52-3 |
| Cryolite | Na ₃ AlF ₆ | 0-15 | No | 9003-35-4 |
| Cured epoxy resin | | 15-20 | No | 68609-97-2 |
| Cotton Cloth | | 13-17 | No | - |
| plastic/aluminum backing | | 39-50 | No | 65997-17-3 |
| Fiberglass backing | | 39-50 | No | - |
| Zinc | Zn | 0-50 | No | 7440-66-6 |

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| SECTION 4-First Aid |
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4.1 First Aid for exposure

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| Dust Inhalation: | Terminate exposure and remove to fresh air. Obtain medical assistance. |
| Ingestion: | Obtain medical assistance. |
| Absorption: | N/A |
| Skin contact: | Terminate exposure and remove to fresh air. Obtain medical assistance. |
| Eye: | Flush eyes with water |

4.2 Signs and Symptoms of Exposure

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| Acute: | May cause coughing and shortness of breath during grinding. Skin irritation. Eye irritation. |
| Chronic: | Decreased lung capacity |

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| SECTION 5 - Fire Fighting Measures |
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| 5.1 | Means Of Extinction: | Water or carbon dioxide |
| 5.2 | Unusual Fire or Explosion Hazards: | None |
| | Flammable Properties: | none |
| 5.3 | Special Fire Fighting Procedures: | Consult NFPA or CFPD procedures |

SECTION 6 - Accidental Release Measures

Normal clean up procedures should be used if material is released.

Gloves and a respirator are recommended to clean up used material.

SECTION 7- Storage, Handling and Use Procedures

- 7.1 Handling:** Avoid damage to wheel. Do not drop. Do not use a wheel that has been damaged. Always handle in accordance with ANSI B7.1.
- 7.2 Storage:** Avoid excessive temperatures in storage. Store in a dry area. Discard if wheel gets wet.

SECTION 8- Personal Protective Control Measures

8.1 Exposure limits

| Chemical | OSHA PEL | ACGIH TLV |
|--------------------------|-----------------------------------|----------------------------------|
| Aluminum Oxide | 15 mg/m ³ | 10mg/m ³ |
| Zirconium Oxide | 5 mg/m ³ | 10mg/m ³ |
| cured epoxy resin | N/A | N/A |
| Cotton Cloth | N/A | N/A |
| plastic/aluminum backing | 15 mg/m ³ | 10mg/m ³ |
| Fiberglass backing | 15 mg/m ³ (total dust) | 5 mg/m ³ (total dust) |
| Cryolite | 2.5mg/m ³ | 2.5mg/m ³ |
| Cured Phenolic resin | 5 ppm | 5 ppm |

8.2 Personal protection requirements and referrals

- Respiratory:** OSHA/NIOSH approved respirator. See OSHA 29 CFR 1910.134/European Standard EN 149
- Ventilation:** Engineering Controls recommended. See ANSI Z43.1. Refer to OSHA 29 CFR 1910.94.
- Protective Gloves:** Leather gloves
- Eye Protection:** Protective eyewear such as safety glasses or face shield. Refer to OSHA 29 CFR 1910.133.
- Hearing Protection:** Hearing protection such as approved ear muffs or ear plugs. Refer to OSHA 29 CFR 1910.95.
- Body Protection:** Leather apron, chaps, or shoe coverings to shield from heavy spark showers in operation.
- Hygienic Practices:** Wash with soap and water after handling and grinding.

SECTION 9- Physical/Chemical Characteristics

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| Boiling Point | N/A | Specific Gravity | 2 - 4 |
| Vapor Pressure (mm Hg.) | N/A | Melting Point | N/A |
| Vapor Density (AIR=1) | N/A | Evaporation Rate (Butyl Acetate=1) | N/A |
| Solubility in Water | Slight | Appearance | Dark colored solid |
| Lower And Upper Explosion Limits | N/A | Odor | plastic |
| Flammable Limits | N/A | Degradation Temperature | ~ 800 F (427 C) |
| Flash Point | N/A | | |

SECTION 10 - Stability and Reactivity Data

Avoid excessive moisture and humidity, temperature extremes and contact with acids or solvents

Not incompatible with any materials

No known hazardous reactions will occur

At temperatures exceeding 250° C hazardous or toxic decomposition products may be generated.

SECTION 11 - Toxicological Data

11.1 Component information

| <u>Chemical</u> | <u>Short term effects</u> | <u>Long term effects</u> | <u>Carcinogen</u> |
|----------------------|------------------------------|--------------------------|-----------------------------|
| Aluminum Oxide | skin, respiratory irritation | N/A | No |
| Zirconium Oxide | skin, respiratory irritation | N/A | No |
| cured epoxy resin | N/A | N/A | No |
| Cotton Cloth | N/A | N/A | No |
| plastic/aluminum | N/A | N/A | No |
| Fiberglass | skin, respiratory irritation | | No |
| Cryolite | skin and | fluorosis | No |
| Cured Phenolic resin | N/A | N/A | contains trace formaldehyde |

11.2 Route(s) of Entry and symptoms of exposure

See section 4.2

Section 12-Ecological Information

No Data Available

Section 13-Disposal Considerations

Dispose in accordance to local and federal regulations

Section 14-Transport Information

Not regulated as a hazardous material for transport

Section 15-Regulatory Information

No Data Available

Section 16-Other Information

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COMPANY USE

The information and recommendations set forth herein are taken from sources and references believed to be accurate and complete as of the date hereof. However, the named supplier makes no expressed or implied warranty with respect to the accuracy of the information or the suitability of the recommendations, and assumes no liability to any user thereof.

