# Safety Data Sheet (SDS)

Revision Date: 5/12/15

## 1 Identification

Supplier: Kimball Midwest
4800 Roberts Road
Columbus, OH 43228

Contact: Kimball Midwest
Phone: 800-233-1294
Product Number: 87-286
Product Name: Kim-Kut Cut-Off wheel
Revision Date: 5/12/2015
Version 1: 1
CAS Number: Mixture
Product Use: Cutting/Grinding
Emergency Phone: Chemtrec 800-424-9300

## 2 Hazards Identification

GHS Signal Word: N/A
GHS Classifications: This product is classified as non-hazardous under OSHA Hazard Communication Standard 29 CFR 1910.1200.
Pictogram: N/A
Hazard Statements: N/A
Precautionary: N/A
Statements: N/A

## 3 Composition/Information on Ingredients

Ingredients:

| CAS # | Percentage | Chemical Name |
|---|---|---|
| 1344-28-1 | 0-80 | Aluminum Oxide |
| 409-21-2 | 0-75 | Silicon Carbide |
| 1314-23-4 | 0-75 | Zirconium Oxide |
| N/A | 10-30 | Cured Phenolic Resin |
| 1305-78-8 | 0-10 | Calcium Oxide |
| 12068-85-8 | 0-20 | Iron Pyrite |
| 14075-53-7 | 0-10 | Potassium Fluoroborate |
| 7782-42-5 | 0-5 | Graphite |
| 7789-75-5 | 0-10 | Fluorspar |
| 7728-43-7 | 0-10 | Barium Sulfate |
| 471-34-1 | 0-10 | Calcium Carbonate |
| 60304-36-1/15096-52-3 | 0-15 | Alkali Aluminum Fluorides |
| 7778-80-2 | 0-10 | Potassium Sulfate |
| 65997-17-3 | 0-5 | Fiberglass |

## 4 First Aid Measures

Inhalation: Move to fresh air. If breathing is difficult, have qualified personnel administer oxygen. Seek medical attention if irritation or other symptoms persist.

Skin Contact: Wash skin with soap and water. If irritation or other symptoms develop, seek medical attention.
Eye Contact: Remove contact lenses if present. Flush eyes thoroughly with large amounts of water, holding eyelids open. If irritation persists, seek medical attention.
Ingestion: Do not induce vomiting. Rinse mouth with water. Seek medical attention if large amount is swallowed or if you feel unwell.

Most important symptoms and effects, both acute and delayed:
Dust may cause eye and respiratory irritation. Prolonged inhalation of high concentration of dust may cause adverse effects on the lungs. Contains titanium dioxide. Prolonged overexposure to respirable dust may increase the risk of lung cancer. Risk of cancer depends on duration and level of exposure. Exposure to dust generated from processing the base material or coatings may present additional health hazards.

Indication of any immediate medical attention and special treatment needed: No data available.

## 5 Fire Fighting Measures

| | |
|---|---|
| Flammability: | Not Flammable |
| Flash Point: | DNA |
| Flash Point Method: | DNA |
| Burning Rate: | No data Available |
| Autoignition Temp: | No data Available |
| LEL: | DNA |
| UEL: | DNA |

Extinguishing Media:
Dry Powder
Do NOT use Water

Special Hazards Arising From the Substance or Mixture:
Explosive dusts

Advice for Firefighters:
Firefighters should wear full emergency equipment and NIOSH approved positive pressure self-contained breathing apparatus.

Further Information:
See Section 7 for more information on safe handling.
See Section 8 for more information on personal protection equipment.

## 6 Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:
Wear appropriate respirator and protective clothing as needed to avoid eye contact and inhalation of dust.

Environmental precautions:
Avoid contamination of water supplies and environmental releases. Report spills as required by authorities.

Methods and materials for containments and cleaning up:
Collect dry material, avoiding creating airborne dust. Place in a suitable container for disposal.

Reference to other sections:
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for information on proper disposal.

## 7 Handling and Storage

Handling Precautions:
Inspect wheel prior to mounting on machine for damage. Do not use at speeds greater than product maximum rates per minute (rpm) as indicated. Use with adequate ventilation. Avoid breathing dust. Avoid eye and skin contact with grinding dust. Wear suitable eye protection, gloves and appropriate protective clothing. Wash thoroughly after handling. Consider potential exposure to components of the base materials or coatings being ground or cut. Refer to OSHA substance specific standards for additional work practice requirements where applicable.

Storage Requirements:
No special storage required. Avoid excessive temperatures in storage. Store in a dry area.

## 8 Exposure Controls/Person Protection

Engineering Controls:
All ventilation should be designed in accordance with OSHA standard (29 CFR 1910.94).

Personal Protective Equip:
Eye/face protection: Protective eyewear such as safety goggles, safety glasses or a face shield is recommended. See OSHA 29 CF1910.133.

Skin/Body protection: Leather apron, fire retardant jacket/shirt/lab coat to shield from heavy spark showers in operation.

Respiratory protection: OSHA/NIOSH approved respirator. See OSHA 29 CFR 1910.134.

Control of environmental exposure:
No special requirements are necessary.

Components with workplace control parameters:

Component(s):

| Chemical Name | OSHA PEL respirable ($mg/m^3$) | OSHA PEL total dust ($mg/m^3$) | ACGIH TLV ($mg/m^3$) |
|---|---|---|---|
| Aluminum Oxide | 5 | 15 | 10 |
| Silicon Carbide | 5 | 15 | 3 |
| Zirconium Oxide | 5 | N/A | 10 |
| Cured Phenolic Resin | None Established | None Established | None Established |
| Calcium Oxide | 5 | N/A | 2 |
| Iron Pyrite | None Established | None Established | None Established |
| Potassium Fluoroborate | 2.5 | N/A | 2.5 |
| Graphite | 5 | 15 | 2 |

| | | | |
|---|---|---|---|
| Fluorspar | 2.5 | N/A | 2.5 |
| Barium Sulfate | 5 | 15 | 5 |
| Calcium Carbonate | 5 | 10 | 10 |
| Alkali Aluminum Fluorides | 2.5 | N/A | 2.5 |
| Potassium Sulfate | 15 | N/A | 10 |
| Fiberglass | 5 | 15 | 5 |

Biological occupational exposure limits:
Contains no substances with biological occupational exposure limits values.

## 9 Physical and Chemical Properties

| | | | | |
|---|---|---|---|---|
| Appearance | Dark Colored, solid bonded wheel | | Odor | Faint phenolic |
| Physical State | Solid | | Molecular Formula | Mixture |
| Odor Threshold | DNA | | Solubility | Insoluble |
| Particle Size | DNA | | Softening Point | DNA |
| Spec Grav/Density | DNA | | Percent Volatile | DNA |
| Viscosity | DNA | | Heat Value | DNA |
| Sat. Vap Cone | DNA | | Freezing/Melting Point | DNA |
| Boiling Point | DNA | | Flash Point | Not Flammable |
| Flammability | Not flammable | | Octanol | DNA |
| Partition Coefficient | DNA | | Vapor Density | DNA |
| Vapor Pressure | DNA | | VOC | DNA |
| pH | DNA | | Bulk Density | DNA |
| Evaporation rate | DNA | | Auto-Ignition Temp | DNA |
| Molecular Weight | DNA | | UFL/LFL | DNA |
| Decomp Temp | 800°F (425°C) | | | |

## 10 Stability and Reactivity

Stability: Stable.
Conditions to Avoid: N/A
Materials to Avoid: N/A
Hazardous Decomposition: N/A
Hazardous Polymerization: Will not occur.

## 11 Toxicological Information

| Chemical Name | Route of Exposure | Acute LD50 |
|---|---|---|
| Aluminum Oxide | Oral | >10000 mg/kg (rat) |
| Silicon Carbide | Oral | >2000 mg/kg (rat) |
| Zirconium Oxide | Oral | >5000 mg/kg (rat) |
| Cured Phenolic Resin | N/A | No acute toxicity data available. |
| Calcium Oxide | N/A | No acute toxicity data available. |
| Iron Pyrite | N/A | No acute toxicity data available. |
| Potassium Fluoroborate | Oral | >5000 mg/kg (rat) |

| | | |
|---|---|---|
| Graphite | Oral | >5000 mg/kg (rat) |
| Fluorspar | Oral | >4000 mg/kg (rat) |
| Barium Sulfate | Oral | >5000 mg/kg (rat) |
| Calcium Carbonate | Oral | >5000 mg/kg (rat) |
| Alkali Aluminum Fluorides | Oral | >5000 mg/kg (rat) |
| Potassium Sulfate | Oral | >5000 mg/kg (rat) |
| Fiberglass | N/A | No acute toxicity data available. |

Routes of Exposure:
Inhalation, skin contact, eye contact and ingestion

Related Symptoms:
Breathing in dust may cause irritation to the nose, throat and upper respiratory tract. May cause abrasive skin irritation. May cause eye irritation and injury. Not toxic if ingested. Swallowing may cause gastrointestinal disturbances or obstructions.

Acute and Chronic Effects:
Prolonged inhalation of respirable dust may cause adverse lung effects, including cancer. Smoking may aggravate chronic effects. Prolonged exposure to elevated noise levels during operations may affect hearing. In most cases, the greater hazard is the exposure to the dust/fumes from the material (paint/coatings) being cut and ground. Most of dust is generated during grinding and cutting of the base material and the potential hazard from this exposure must be evaluated.

Carcinogenicity:
Unknown.

Mutagenicity:
Unknown.

Reproductive Effects:
Unknown.

## 12 Ecological Information

Data from Toxicity Test:
No adverse effects on aquatic organisms are expected.

## 13 Disposal Considerations

Proper Disposal Practices:
Disposal practices are in accordance with local, state and national regulations.

## 14 Transport

**DOT (US)** Non-regulated material
**IMDG** Non-regulated material
**IATA** Non-regulated material
**IMO** Non-regulated material
Special Shipping Information: None.

## 15 Regulatory Information

Safety, Health and Environmental Regulations:
No Data Available.

## 16 Other Information

Disclaimer:

The data in this Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material in any process. The information set forth herein is furnished free of charge and is based on technical data that the supplier believes to be reliable. It is intended for use by persons having technical skill and at their own discretion and risk. Since conditions of use are outside of the supplier's control, the supplier makes no warranties, expressed or implied, and assumes no liability in connection with any use of this information. Nothing herein is to be taken as a license to operate under, or a recommendation to infringe upon, any patents.