

1	Product and Company Information
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Supplier: Kimball Midwest
4800 Roberts Road
Columbus, OH 43228

Contact: Kimball Midwest
Phone: 800-233-1294
Product Number: 87-060, 87-061, 87-062, 87-064, 87-065
Product Name: Abrasive Sheets
Revision Date: 2/16/2015
Version 1: 1
CAS Number: Mixture
Product Use: Abrasive Product
Emergency Phone: Chemtrec 800-424-9300

2	Hazards Identification
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GHS Signal Word: Warning
GHS Classifications: Health: Serious Eye Damage/Eye Irritation 2B
Hazard Statements: Causes eye irritation
Precautionary Statements:
Avoid breathing dust produced while using this product.
Wash face, hands and any exposed skin thoroughly after handling.
Use only outdoors or in a well ventilated area.
Wear protective gloves/protective clothing/eye protection/face protection.
In case of inadequate ventilation wear respiratory protection.
IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
IF IN EYES: Do NOT rub. Rinse continuously with water for several minutes.
Remove contact lenses if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.
If experiencing respiratory symptoms: Get medical advice/attention.
Store in a dry place.

3	Composition/Information on Ingredients
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Ingredients

CAS #	Percentage	Chemical Name
1344-28-1	0-50%	Natural Aluminum Oxide (Al ₂ O ₃), Corundum
9003-35-4	5-30%	Cured Resin, Phenol-Formaldehyde polymer
9011-05-6	10-30%	Cured Resin, Urea-Formaldehyde polymer
1317-65-3	0-25%	Limestone

1332-58-7	0-15%	Kaolin Clay
N/A	0-30%	Cotton or Polyester Cloth, Mesh or Paper Backing

4	First Aid Measures
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Inhalation: Blow nose to remove substance from nasal passages. Give oxygen or artificial respiration if needed. If symptoms develop, move victim to fresh air. If symptoms persist, obtain medical attention.

Skin Contact: No need for first aid is anticipated for non-abrasive exposure to product. If reddening develops and/or persists, obtain medical attention.

Eye Contact: Do NOT rub eyes. Flush with large amounts of water for at least 15 minutes, lifting upper and lower lids occasionally. If irritation persists, obtain medical attention.

Ingestion: No need for first aid is anticipated. If symptoms develop, obtain medical attention.

Most important symptoms and effects, both acute and delayed:

The most important known symptoms and effects are described in the labelling (see Section 2) and/or Section 11.

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

5	Fire Fighting Measures
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Flammability: Not Classified

Flash Point: DNA

Flash Point Method: DNA

Burning Rate: No data Available

Autoignition Temp: No data Available

LEL: DNA

UEL: DNA

Product is flammable when exposed to direct flame. During proper, recommended use of this product, no flammability hazard exists.

Extinguishing Media:

Water Spray

Carbon Dioxide

Alcohol-Resistant Foam

Dry Chemical

Special Hazards Arising From the Substance or Mixture:

Aluminum Oxides

Calcium Oxides

Carbon Oxides

Nitrogen Oxides (NO_x)

Silicon Oxides

Advice for Firefighters:

Firefighters should wear full-face, positive-pressure respirators.

Further Information:

If incinerated, may release toxic fumes.

See Section 7 for more information on safe handling.

See Section 8 for more information on personal protection equipment.

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Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:

Use personal protective equipment, including dust respirator. Avoid breathing dust. Ensure adequate ventilation.

Environmental precautions:

No special environmental precautions required.

Methods and materials for containments and cleaning up:

Pick up and arrange disposal without creating dust. Sweep up, shovel or collect spillage and place material into suitable container for disposal. Inspect product for torn or damaged areas. Do not use if product is torn or damaged. Dispose of contaminated material according to Section 13. Ensure adequate ventilation.

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.

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Handling and Storage

Handling Precautions: Ensure adequate ventilation.

Avoid breathing of dust created while sanding, grinding or machining – use dust Respirator while using product. Avoid contact with skin, eyes and clothing.

Damaged product can break apart during use and cause serious bodily injury, specifically to the eyes. Use safety glasses while using product.

Check product for damages such as tears or cracks prior to use. Do not use damaged product.

Comply with RPM rating specified on this product.

Comply with ANSI 87.1-2010 Safety Requirements for the Use, Care and Protection of Abrasive Wheels (if applicable).

Combustible dust may be formed as a result of using this product. Take care to not let generated dust accumulate.

Accumulated dust may present an explosive hazard when dispersed in sufficient concentration while near an ignition source.

Collect dust and dispose of regularly.

Storage Requirements: Keep away from heat, sparks and flames.

Store in a dry place – keep away from moisture.

Store at temperatures between 40-90F at 30-80% relative humidity.
Store away from strong acids, strong oxidizing agents, pure Aluminum and Magnesium.

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Exposure Controls/Person Protection

Engineering Controls:

All ventilation should be designed in accordance with OSHA standard (29 CFR 1910.94). Use local exhaust at filling zones and where leakage and dust formation is probable. Use mechanical (general) ventilation for storage areas. Use appropriate ventilation as required to keep Exposure Limits in Air below TLV & PEL limits.

Personal Protective Equip:

Eye/face protection: When using material use safety glasses, gloves, and dust respirator according to HMIS PP, E. All safety equipment should be tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Skin protection: Handling material with gloves is not required, but strongly recommended in order to prevent accidental secondary contact with eyes. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact. Dispose of contaminated gloves according to applicable laws and practices.

Body Protection: Safety glasses, gloves and dust respirator are recommended. Type of protective equipment should be selected based on ventilation conditions and other conditions of use of this material.

Respiratory protection: Use a NIOSH/MSHA dust mask according to 24 CFR 1910.134. Full-face dust respirator may be required as backup to engineering controls when proper engineering controls are not in place to keep TLV and PEL limits below defined thresholds.

Control of environmental exposure:

No special requirements are necessary.

Components with workplace control parameters:

Component(s): Silicon Carbide, Corundum; Limestone; Kaolin Clay

CAS No(s): 409-21-2; 1317-65-3; 1332-58-7

USA OSHA Occupational Exposure Limits Table Z-1 Limits for Air Contaminant (TWA): 15.0 mg/m³ (as total dust)

USA OSHA Occupational Exposure Limits Table Z-1 Limits for Air Contaminant (TWA): 5.0 mg/m³ (as respirable fraction)

USA OSHA Table Z-1 Limits for Air Contaminants - 1910-1000 (TWA): 10.0 mg/m³ (as total dust)USA OSHA Table Z-1 Limits for Air Contaminants - 1910-1000 (TWA): 5.0 mg/m³ (as respirable fraction)USA ACGIH (TWA/TLV): 1.0 fiber/cm³USA ACGIH (TWA/TLV): 3.0 mg/m³USA NIOSH (TWA): 10.0 mg/m³ (as total dust)USA NIOSH (TWA): 5.0 mg/m³ (as respirable fraction)

Biological occupational

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

9	Physical and Chemical Properties
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Appearance	Cloth, paper or screen coated with abrasive material	Odor	Faint
Physical State	Solid	Molecular Formula	Mixture
Odor Threshold	DNA	Solubility	DNA
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	DNA
Flammability	Not classified	Octanol	DNA
Partition Coefficient	DNA	Vapor Density	DNA
Vapor Pressure	DNA	VOC	DNA
pH	DNA	Bulk Density	DNA
Evap rate	DNA	Auto-Ignition Temp	DNA
Molecular Weight	DNA	UFL/LFL	DNA
Decomp Temp	DNA		

10	Stability and Reactivity
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Stability:

Product is stable under normal conditions.

Conditions to Avoid:

Incompatibilities, flames, ignition sources and moisture.

Materials to Avoid:

Strong acids, strong oxidizing agents, pure Aluminum and Magnesium.

Hazardous Decomposition:

Aluminum Oxides, Calcium Oxides, Carbon Oxides, Nitrogen Oxides (NO_x) and Silicon Oxides.

Hazardous Polymerization:

Will not occur.

11**Toxicological Information**

Component(s): Natural Aluminum Oxide (AL₂O₃), Corundum; Cured Resin, Phenol-formaldehyde polymer, Cured Resin, Urea-Formaldehyde polymer; Limestone; Kaolin Clay

CAS No(s): 1344-28-1; 9003-35-4; 9011-05-6; 1317-65-3; 1332-58-7 Acute Toxicity:

Acute Toxicity:

LD50 Oral - Rat: > 2,900 mg/kg

LD50 Dermal - Rabbit: > 20,800 mg/kg

LC50 Inhalation - Rat: 2.3 mg/m³ (6 h)

Skin Corrosion/Irritation: Skin - Human: The product itself does not present hazards when used correctly. Mechanical irritation (abrasion) may cause skin irritation.

Serious Eye Damage/Eye Irritation: The product itself does not present hazards. Dust created by grinding, sanding or machining may cause eye irritation.

Respiratory or Skin Sensitation: Skin allergy was observed in humans and guinea pigs following repeated exposure to this material. Certain sensitive individuals may experience allergy symptoms following prolonged, repeated skin contact with this material.

Germ Cell Mutagenicity: No data available.

Carcinogenicity:

This product is or contains a component that is classifiable as to its carcinogenicity by the IARC, ACGIH, NTP or OSHA (Kaolin Clay).

IARC: 1 - Group 1: Carcinogenic to humans (Kaolin Clay).

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: Known to be a human carcinogen (Kaolin Clay).

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Specific Target Organ Toxicity - Single Exposure: Respiratory system: The product itself does not present hazards. Dust created by grinding, sanding or machining may cause respiratory irritation.

Specific Target Organ Toxicity - Repeated Exposure: Respiratory system: May cause damage to the respiratory system through prolonged or repeated exposure.

Aspiration Hazard: No data available.

Additional Information:

Component: Natural Aluminum oxide (AL₂O₃), Corundum; RTECS: BD1200000

Component: Cured Resin, Phenol-Formaldehyde polymer; RTECS: SM8542500

Component: Cured Resin, Urea-Formaldehyde polymer; RTECS: YU1610000

Component: Limestone; RTECS: FF9335000

Component: Kaolin Clay; RTECS: GF1670500

12	Ecological Information
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Component(s): Natural Aluminum oxide (AL₂O₃), Corundum; Cured Resin, Phenol-Formaldehyde polymer; Cured Resin, Urea-Formaldehyde polymer; Limestone; Kaolin Clay
CAS No(s): 1344-28-1; 9003-35-4; 9011-05-6; 1317-65-3; 1332-58-7

Toxicity:

Toxicity to fish:

No data available.

Toxicity to daphnia and other aquatic invertebrates:

No data available.

Persistence and Degradability: No data available.

Bioaccumulative potential: No data available.

Mobility in Soil: No data available.

Results of PBT and vPvB assessment: Not required/conducted.

Other Adverse Effects:

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Harmful to aquatic life with long lasting effects.

13	Disposal Considerations
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Product: Hazardous wastes shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution, release into the environment or damage to people and animals. Contact a licensed professional waste disposal service to dispose of this material. Consult all applicable authorities and regulations to ensure proper classification. Any abraded material remaining on used product (from the substrate being abraded) may need to be considered as a factor in the disposal classification, method or handling of used product.

Contaminated Packaging: Dispose of as unused product.

14	Transport
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DOT (US) Non-regulated material

IMDG Non-regulated material

IATA Non-regulated material

IMO Non-regulated material

Special Shipping Information:

WHMIS Controlled Product Class D2B

15	Regulatory Information
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COMPONENT / (CAS/PERC) / CODES

*Natural Aluminum oxide (Al₂O₃), Corundum (1344281 0 -50%) MASS, NJHS, OSHAWAC, PA, SARA313, TSCA, TXAIR

*Cured Resin, Phenol-Formaldehyde polymer (9003354 5-30%) TSCA

*Cured Resin, Urea-Formaldehyde polymer (9011056 5-30%) TSCA

*Limestone (1317653 0-25%) MASS, NJHS, OSHAWAC, PA, TSCA, TXAIR

*Kaolin Clay (1332587 0-15%) MASS, NJHS, OSHAWAC, PA, PROP65, SARA311/312, TSCA, TXAIR

REGULATORY KEY DESCRIPTIONS

MASS = MA Massachusetts Hazardous Substances List

NJHS = NJ Right-to-Know Hazardous Substances

OSHAWAC = OSHA Workplace Air Contaminants

PA = PA Right-To-Know List of Hazardous Substances

SARA313 = SARA 313 Title III Toxic Chemicals

TSCA = Toxic Substances Control Act

TXAIR = TX Air Contaminants with Health Effects Screening Level

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.