

**K-T INDUSTRIES, INC.**  
P.O. Box 123, Sheldon, Iowa 51201  
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# SAFETY DATA SHEET (SDS)

DATE: 11/4/2015  
APPROVED BY: Kt

## SECTION 1 - PRODUCT IDENTIFICATION

**Name & Address:**

K-T Industries, Inc.  
P.O. Box 123  
Sheldon, Ia 51201

**Emergency Telephone Number:**

712-324-5361

**Recommended Use:**

Cutting and Grinding

**Product Name & Synonyms:**

Reinforced Resin Bonded Abrasive Products  
Cutting Wheels, Grinding Wheels

**Restrictions on Use:**

Improper use may cause wheels to break or cause serious injury. Only use wheel for it's intended purpose and only if wheel is mounted, guarded and operated according to ANSI B7.1 and OSHA regulations. Read all safety instructions in package.

## SECTION 2 - HAZARDS IDENTIFICATION

**Classification:**

Not classified as hazardous according to OSHA Hazard Communication Standard, 29 CFR 1920.1200

**Label Elements:**

Not applicable.

**Potential Health Effects**

**Respiratory:**

Wheel dust is a respiratory irritant.

**Skin:**

Wheel dust and fiberglass reinforcement is a skin irritant.

**Ingestion:**

Acute product toxicity unknown

**Eyes:**

Wheel dust is an eye irritant.

**Chronic:**

Potential chronic effects include skin sensitization and restricted breathing.

**Additional Info:**

Wear respirator, eye protection and protective clothing when using product.  
Product will produce sparks and debris when in use. Never use product near reactive or flammable substances.

**SECTION 3 - COMPOSITION**

<b>Ingredients:</b>	<b>CAS#</b>	<b>% by Wt</b>
Aluminum Oxide	1344-28-1	0 - 80
Silicon Carbide	409-21-2	0 - 75
Zirconium Oxide	1314-23-4	0 - 75
Cured Phenolix Resin	N/A	10 - 30
Calcium Oxide	1305-78-8	0 - 10
Iron Pyrite	12068-85-8	0 - 20
Potassium Fluoborate	14075-53-7	0 - 10
Graphite	7782-45-5	0 - 5
Fluorspar	7789-75-5	0 - 10
Barium Sulfate	7727-43-7	0 - 10
Calcium Carbonate	471-34-1	0 - 10
Alkali Aluminum Fluorides	60304-36-1 / 15096-52-3	0 - 15
Potassium Sulfate	7778-80-5	0 - 10
Fiberglass Backing	65997-17-3	0 - 5

**SECTION 4 - FIRST AID MEASURES**

<b>Eye Contact:</b>	Immediately flush eyes with water, holding eyelids open. Obtain medical assistance.
<b>Skin Contact:</b>	Wash dust from skin with soap and water. Launder contaminated clothing before reuse.
<b>Inhalation:</b>	Move to fresh air. If breathing is difficult, have qualified personnel administer oxygen and seek medical attention.
<b>Ingestion:</b>	Rinse mouth with water. Slight chance of intestinal blockage. If needed, obtain medical assistance.
<b>Symptoms:</b>	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.

**SECTION 5 - FIRE-FIGHTING MEASURES**

<b>Extinguishing Media:</b>	Use any media that is appropriate for the surrounding fire
<b>Specific Hazards:</b>	These products are not combustible, however, consideration must be given to the potential fire/explosion hazards from the base materials being processed. Many materials create flammable/explosive dusts or turnings when sanded, machined or ground.
<b>Special Procedures:</b>	Firefighters should wear full emergency equipment and NIOSH approved positive pressure self-contained breathing apparatus.

**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

**Protective Equipment:** OSHA or NIOSH approved dust respiratory, gloves and eye protection are required.

**Procedures:** Normal cleanup procedures should be used if material is released. Report releases as required by local, state and federal authorities.

**Containment:** Pick up, sweep up or vacuum and place in trash.

**SECTION 7 - HANDLING AND STORAGE**

**Handling and Storage:** Handle with care. See ANSI Standard B.71 (1978). Store in a dry area. Physical damage must be prevented. If damage is suspected, a 100% inspection of all items must be taken. Use only with adequate ventilation and avoid breathing dust. Wash hands after use. Use suitable globes and eye/face protection.

**SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION**

<u>Ingredients:</u>	<u>OSHA PEL</u>	<u>OSHA PEL total dust</u>	<u>ACGIH TLV</u>
Aluminum Oxide	5 mg/m3	15 mg/m3	10 mg/m3
Silicon Carbide	5 mg/m3	15 mg/m3	3 mg/m3
Zirconium Oxide	5 mg/m3	N/A	10 mg/m3
Cured Phenolix Resin	N/A	N/A	N/A
Calcium Oxide	5 mg/m3	N/A	2 mg/m3
Iron Pyrite	N/A	N/A	N/A
Potassium Fluoborate	2.5 mg/m3	N/A	2.5 mg/m3
Graphite	5 mg/m3	15 mg/m3	2 mg/m3
Fluorspar	2.5 mg/m3	N/A	2.5 mg/m3
Barium Sulfate	5 mg/m3	15 mg/m3	5 mg/m3
Calcium Carbonate	5 mg/m3	10 mg/m3	10 mg/m3
Alkali Aluminum Fluorid	2.5 mg/m3	N/A	2.5 mg/m3
Potassium Sulfate	15 mg/m3	N/A	10 mg/m3
Fiberglass Backing	5 mg/m3	15 mg/m3	5 mg/m3

**Ventilation:** Engineering controls recommended. See ANSI Z43.1.  
Refer to OSHA 29 CFR 1910.94

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

**Eye Protection:** Protective eyewear such as safety goggles, safety glasses or face shield is recommended. See OSHA 29 CFR 1910.133

**Protective Gloves:** Leather gloves.

**Hearing Protection:** Hearing protection such as earplugs or earmuffs. Refer to OSHA 29 CFR 1910.95

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

**Other Info:** Visually inspect all wheels, before mounting, for possible damage. Do not operate above maximum operating speed, as noted on the product or product packaging. Always use a guard. Refer to ANSI B7.1

**SECTION 9 - PHYSICAL CHEMICAL PROPERTIES**

<b>Boiling Point (degrees F.)</b>	N/A
<b>Vapor Pressure (mm HG)</b>	N/A
<b>Vapor Density (Air = 1)</b>	N/A
<b>Solubility in Water</b>	Insoluble
<b>Specific Gravity (H2O = 1)</b>	Varies
<b>Percentage Volatiles by Volume (%)</b>	Zero
<b>Evaporation Rate (H2O = 1)</b>	N/A
<b>Appearance and Odor</b>	Dark colored with no odor or faint phenolix odor
<b>Decomposition Temperature</b>	800° F (425° C)

**SECTION 10 - STABILITY AND REACTIVITY**

<b>Chemical Stability:</b>	Stable
<b>Conditions to Avoid:</b>	None known
<b>Incompatibility (Materials to Avoid):</b>	None known
<b>Hazardous Polymerization:</b>	Will not occur
<b>Other Info:</b>	Dust from grinding and cutting could contain potentially hazardous components of the base material being ground or coatings applied to the base material.

**SECTION 11 - TOXICOLOGICAL INFORMATION**

<b><u>Chemical Name</u></b>	<b><u>Route of Exposure</u></b>	<b><u>Acute LD50</u></b>
Aluminum Oxide	Oral	>10000 mg/kg (rat)
Silicon Carbide	Oral	>2000 mg/kg (rat)
Zirconium Oxide	Oral	>5000 mg/kg (rat)
Cured Phenolix Resin	N/A	No data available.
Calcium Oxide	N/A	No data available.
Iron Pyrite	N/A	No data available.
Potassium Fluoborate	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 Backing	N/A	No data available.

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

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

**Acute & 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 the dust is generated during grinding and cutting of the base material and the potential hazard from this exposure must be evaluated.

**SECTION 12 - ECOLOGICAL INFORMATION**

**Ecotoxicity:** No ecotoxicity was found for this product.

**SECTION 13 - DISPOSAL CONSIDERATIONS**

**Disposal Method:** Material should be disposed of in a secured, sanitary landfill in accordance with federal, state and local regulations.

**SECTION 14 - TRANSPORT INFORMATION**

**Transport Info:** Not regulated as hazardous material for transportation.

**SECTION 15 - REGULATORY INFORMATION**

**California Proposition 65:**

WARNING! You create dust when you cut, sand, drill or grind materials such as wood, paint, cement, masonry or metal. This dust often contains chemicals known to cause cancer, birth defects or other reproductive harm.

**SECTION 16 - OTHER INFORMATION**

**SDS Creation Date:** April 2, 2011

**SDS Revision Date:** November 4, 2015

**Revision Summary:** Changed all sections. Updated format to GHS.

**Company Note**

The information and recommendations set forth herein are taken from sources and references believed to be accurate and complete as of the date thereof. However, K-T Industries, Inc. 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.