

SAFETY DATA SHEET

Printing Date: 1/10/2018

Section 1: Identification

Product Identity / Trade Name:	Cut-off Wheel and Depressed Centre Wheel
Product Use	Best-suited for general purpose deburring and blending, commonly used on ferrous alloys and high-tensile materials.
Restriction on Use	Use only as directed. For industrial use only.
Manufacturer	Grabber Construction Products, Inc.
Internet	www.GrabberPro.com
Information Phone	800-477-8876
Emergency Phone	800-477-8876
Date of Preparation	January 10 th , 2018

Section 2: Hazard(s) identification

As sold, this product is a manufactured article. During processing, dust generated has the following hazards:

Classification:

Physical	Health
Not Hazardous	Specific Target Organ Toxicity-Repeated Exposure Category 1 (Respiratory tract, teeth and bones) Carcinogen Category 2

Labeling Elements:



Danger

Hazard statement(s)

H351 Suspected of causing cancer by inhalation.

H372 Causes damage to respiratory tract, teeth and bones through prolonged or repeated exposure.

Precautionary statement(s)

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P260 Do not breathe dust.

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P280 Wear eye protection.

P308+P313 IF exposed or concerned: Get medical attention.

P405 Store locked up.

P501 Dispose of contents in accordance with local, regional and national regulations.

Section 3: Composition/information on ingredients

Chemical name	CAS No.	Concentration
Aluminum Oxide	1344-28-1	0-95
Silicon Carbide	409-21-2	0-95
Zirconium Oxide	1314-23-4	0-80
Cured Phenolic Resin	N/A	1-20
Woven Fiberglass	N/A	1-15
Iron Pyrite	12068-85-8	0-5
Cryolite	15096-52-3	0-5
Aluminum Potassium Fluoride	14484-69-6	0-5
Calcium Carbonate	1317-65-3	0-5
Sulphur Compounds	N/A	0-5
Titanium Dioxide	13463-67-7	0-5
Silicon Dioxide	7631-86-9	0-2
Iron Oxide	1309-37-1	0-2
Carbon Black	1333-86-4	0-2

The specific identity and/or exact percentage has been withheld as a trade secret.

Section 4: First-aid measures

Route	Symptoms and Treatment
Ingestion	If grinding dust is swallowed, seek medical attention.
Inhalation	If overexposed to grinding dust, remove victim to fresh air and get medical attention.
Eye Contact	Flush eyes thoroughly with water, holding open eyelids. Get medical attention if irritation persists. Obtain immediate medical attention for foreign body in the eye.
Skin Contact	Wash dust from skin with soap and water. Launder contaminated clothing before reuse.

Most important symptoms/effects, acute and delayed: May cause mechanical eye and skin irritation. Inhalation of dust may cause nose, throat and upper respiratory tract irritation. Prolonged inhalation of high concentration of dust may cause adverse effects on the lungs. Suspected of causing cancer based on animal data. Prolonged overexposure may cause damage to the respiratory tract, bones and teeth by inhalation.

Indication of immediate medical attention and special treatment, if necessary: Immediate medical attention is not required.

Most important symptoms/effects, acute and delayed: May cause mechanical eye and skin irritation. Inhalation of dust may cause nose, throat and upper respiratory tract irritation. Prolonged inhalation of high concentration of dust may cause adverse effects on the lungs. Suspected of causing cancer based on animal data. Prolonged overexposure may cause damage to the respiratory tract, bones and teeth by inhalation.

Indication of immediate medical attention and special treatment, if necessary: Immediate medical attention is not required.

Section 5: Fire-fighting measures

Suitable (and unsuitable) extinguishing media: Use any media that is appropriate for the surrounding fire.
Specific hazards arising from the chemical: This product is not combustible; however, consideration must be given to the potential fire or explosion hazards from the base material being processed. Many materials create flammable or explosive dusts or turnings when machined or ground.
Special protective equipment and precautions for fire-fighters: Firefighters should wear full emergency equipment and NIOSH approved positive pressure self-contained breathing apparatus.

Section 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 release into the environmental. Report releases as required by local, state and federal authorities.
Methods and materials for containment and cleaning up: Pick up, sweep up or vacuum and place in a container for disposal. Minimize generation of dust.

Section 7: Handling and storage

Precautions for safe handling: Use only with adequate ventilation. Avoid breathing dust. Wash thoroughly after handling and use, especially before eating, drinking or smoking. Refer to ANSI B7.1, Safety Requirements for the Use, Care and Protection of Abrasive Wheels for additional information. Consider potential exposure to components of the base materials or coatings being ground. Refer to OSHA's substance specific standards for additional work practice requirements where applicable.
Conditions for safe storage, including any incompatibilities: Store in accordance with ANSI B7.1. Protect abrasive wheels from damage. Store in a dry place.

Section 8: Exposure controls/personal protection

Exposure Guidelines:

<p>Aluminum Oxide</p>	<p>5 mg/m3 ACGIH TLV (respirable fraction) (as Al metal) 15 mg/m3 TWA OSHA PEL (total dust) 5 mg/m3 TWA OSHA PEL (respirable fraction)</p> <p>5 mg/m3 ACGIH TLV(呼吸分数)(金属) 15 mg/m3 TWA OSHA PEL(全尘) 5 mg/m3 TWA OSHA PEL(呼吸分数)</p>
<p>Silicon Carbide</p>	<p>3 mg/m3 TWA ACGIH TLV (respirable fraction) 10 mg/m3 TWA ACGIH TLV (inhalable fraction) 15 mg/m3 TWA OSHA PEL (total dust) 5 mg/m3 TWA OSHA PEL (respirable fraction)</p> <p>3 mg/m3 TWA ACGIH TLV(呼吸分数) 10 mg/m3 TWA ACGIH TLV(可吸入馏分) 15 mg/m3 TWA OSHA PEL(全尘) 5 mg/m3 TWA OSHA PEL(呼吸分数)</p>
<p>Zirconium Oxide (as zirconium compounds)</p>	<p>5 mg/m3 TWA ACGIH TLV 10 mg/m3 STEL ACGIH TLV 5 mg/m3 TWA OSHA PEL</p>
<p>Cured Phenolic Resin</p>	<p>None Established</p>
<p>Woven Fiberglass</p>	<p>5 mg/m3 TWA ACGIH TLV (inhalable) 1 f/cc TWA ACGIH TLV (respirable)</p>
<p>Iron Pyrite</p>	<p>None Established</p>

Section 8: Exposure controls/personal protection

Cryolite (as fluorides)	2.5mg/m ³ TWA ACGIH TLV 2.5mg/m ³ TWA OSHA PEL
Aluminum Potassium Fluoride	5 mg/m ³ ACGIH TLV (respirable fraction) (as Al metal) 15 mg/m ³ TWA OSHA PEL (total dust) 5 mg/m ³ TWA OSHA PEL (respirable fraction)
Calcium Carbonate	15 mg/m ³ TWA OSHA PEL (total dust) 5 mg/m ³ TWA OSHA PEL (respirable fraction)
Titanium Dioxide	10 mg/m ³ TWA ACGIH TLV 15 mg/m ³ TWA OSHA PEL (total dust)
Iron Oxide	5 mg/m ³ TWA ACGIH TLV (respirable fraction) 10 mg/m ³ TWA OSHA PEL (fume)

Note: Consider also components of base materials and coatings being ground.

Section 9: Physical and chemical properties

Appearance (physical state, color, etc.): Black, brown or reddish colored solid wheel.

Odor: No Odor

Odor threshold	Not applicable	pH	Not applicable
Melting point/freezing point	Not applicable	Boiling Point	Not applicable
Flash point	Not applicable	Evaporation rate	Not applicable
Flammability (solid, gas)	Not combustible	UEL	
Flammable limits :LEL	Not applicable	Vapor density	Not applicable
Vapor pressure	Not applicable	Solubility(ies)	Not soluble
Relative density	Not applicable	Auto-ignition temperature	Not applicable
Partition coefficient: n-octanol/water	Not applicable	Viscosity	Not applicable
Decomposition temperature	~800°F(427°C)		

Section 10: Stability and reactivity

Reactivity	Not reactive
Chemical stability	Stable
Possibility of hazardous reactions	None known
Conditions to avoid	None known
Incompatible materials	None known
Hazardous decomposition products	Dust from grinding could contain ingredients listed in Section 3 and other, potentially more hazardous components of the base material being ground or coatings applied to the base material.

Section 11: Toxicological information**Routes of exposure:**

Ingestion	None expected under normal use conditions. Swallowing large pieces may cause obstruction of the gastrointestinal tract.
Inhalation	Dust may cause respiratory irritation.
Eye Contact	Dust may cause mechanical irritation.
Skin Contact	None expected under normal use conditions. Rubbing product across the skin may cause mechanical irritation or abrasions.

Chronic effects from short- and long-term exposure: Long-term overexposure to respirable dust may cause lung damage (fibrosis) with symptoms of coughing, shortness of breath and diminished breathing capacity. Chronic effects may be aggravated by smoking. Prolonged overexposure to fluorides may cause a bone condition, fluorosis. Prolonged exposure to elevated noise levels during operations may affect hearing. A greater hazard, in most cases, is the exposure to the dust/fumes from the material or paint/coatings being ground. Most of the dust generated during grinding is from the base material being ground and the potential hazard from this exposure must be evaluated.

Carcinogenicity: Titanium Dioxide is listed by IARC as a group 2B Carcinogen (suspected human carcinogen). None of the other components is listed as a carcinogen or potential carcinogen by OSHA, NTP or IARC.

Numerical measures of toxicity:

Aluminum Oxide	LD50 Oral rat >5,000 mg/kg
Silicon Carbide	Oral rat LD50 >2000 mg/kg, Dermal rat LD50 >2000 mg/kg
Zirconium Oxide	Oral rat LD50 >5000 mg/kg
Iron Pyrite	No toxicity data available
Sulfur	Oral rat LD50 >2000 mg/kg, Inhalation rat LC50 >5.43 mg/L/4 hr, Dermal rat LD50 >200 mg/L
Calcium Oxide	Oral rat LD50 >7340 mg/kg
Cryolite	LD50 Oral rat >5,000 mg/kg
Titanium Dioxide	LD50 Oral rat >5,000 mg/kg, Inhalation rat LC50 >6.82 mg/L/4 hr
Calcium Carbonate	No toxicity data available
Aluminum Potassium fluoride	LD50 oral rat 2150 mg/kg, LC50 inhalation rat > 3.4 mg/L, LD50 dermal rabbit >2000 mg/kg.
Iron Oxide	LD50 oral rat > 10000 mg/kg

Section 12: Ecological information**Ecotoxicity:**

Aluminum Oxide	96 hr LC50 Pimephales promelas 35 mg/L
Silicon Carbide	No data available
Zirconium Dioxide	96 hr LC50 Danio rerio >100 mg/L, 48 hr EC50 daphnia magna >100 mg/L, 72 hr
Iron Pyrite	No data available
Cryolite	No data available
Titanium Dioxide	48 hr EC50 daphnia magna >500 mg/L
Calcium Carbonate	No data available
Aluminum Potassium fluoride	Brachydanio rerio LC50 > 10 mg/L/96h
Iron Oxide	No data available

Persistence and degradability: Biodegradation is not applicable to inorganic compounds.

Bioaccumulative potential: No data available

Mobility in soil: No data available.

Other adverse effects: No hazards to the environment are expected from this product. However, consideration must be given to potential environment effects of the base material being processed

Section 13: Disposal considerations

Dispose in accordance with all applicable local, state/provincial and federal regulations. Local regulations may be more stringent than regional and national requirements. It is the responsibility of the waste generator to determine the toxicity and physical characteristics of the material to determine the proper waste identification and disposal in compliance with applicable regulations.

Section 14: Transport information

	UN Number	Proper shipping name	Hazard Class	Packing Group	Environment Hazard
DOT	None	Not Regulated	None	None	
TDG	None	Not Regulated	None	None	

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code):

Not applicable - product is transported only in packaged form.

Special precautions: None identified.

Section 15: Regulatory information

SARA Section 311/312 Hazard Categories: Not Applicable

SARA Section 313: Some products contain the following toxic chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372 (Toxic Chemical Release Reporting): None

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.

Canadian WHMIS Classification: Not a controlled product. This product meets the definition of a "manufactured article" under the WHMIS regulations. This product has been classified under the CPR and this SDS discloses information elements required by the CPR.

Section 16: Other information, including date of preparation or last version

NFPA Rating: Health = 1	Flammability = 0	Instability = 0
HMIS Rating: Health = 1	Flammability = 0	Physical Hazard = 0

The preceding information is believed to be correct and current as of the date of preparation of this Material Safety Data Sheet. Since the use of this information and the conditions of use of this product are not within the control of Pearl Abrasive Co., it is the user's obligation to assure safe use of this product.