

# SAFETY DATA SHEET

## For Organic Bonded Abrasives

### 1. IDENTIFICATION

1.1 Products: Grinding/Cutting wheels

1.2 Product code: 714850 714851

1.3 Date prepared: Jun 28, 2016

### 2. Description of Hazard(s):

**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 restricted breathing

**Hazard status:** This product is classified as non-hazardous under OSHA HCS 29 CFR 1910.1200

Wear respirator, eye protection and protective clothing when using product.

Product will produce sparks and debris when in use, never use this product near reactive or flammable substances.

Never use product if it comes in contact with water.



Carcinogen Category 2

WARNING! Suspected of causing cancer if inhaled

### Supplemental labeling:

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. This dust may present a fire or dust explosion hazard and may present a serious health hazard.

### 3. HAZARDOUS INGREDIENTS

Chemical name	Formula	CAS NO.	WT.%
Aluminum Oxide	Al <sub>2</sub> O <sub>3</sub>	1344-28-1	0 - 80
Silicon Carbide	SiC	409-21-2	0 - 75
Zirconium Oxide	ZrO <sub>2</sub>	N/A	0 - 75
Cured Phenolic Resin	N/A	N/A	10-35
Graphite	C	7782-42-5	0 -10
Calcium Carborate	CaCO <sub>3</sub>	471-34-1	0 -10
Cryolite	Various	15096-52-3	0 -15
Fiberglass	N/A	65997-17-3	0 - 30

### 4. FIRST AID MEASURES

**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.

## 5. FIRE FIGHTING MEASURES

**Extinguishing Media:** Use any media that is appropriate for the surrounding fire.

**Special Firefighting Procedures:** None needed.

**Unusual Fire and Explosion Hazards:** This product is not combustible, however, consideration must be given to the potential fire/explosion hazards from the base material being processed. Many materials create flammable/explosive dusts or turnings when machined or ground.

**Hazardous Combustion Products:** None known.

## 6. ACCIDENTAL RELEASE MEASURES

Pick up, sweep up or vacuum and place in a container for disposal. Minimize generation of dust. Notify authorities as required by local, state and federal regulations.

## 7. HANDLING AND STORAGE

**Recommended Work Practices:** 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.

**Storage:** Store in accordance with ANSI B7.1. Protect abrasive wheels from damage.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Guidelines:

Hazardous Component	OSHA PEL	ACGIH TLV
Aluminum Oxide	5 mg/ m <sup>3</sup> (Respirable fraction) 15 mg/ m <sup>3</sup> (total dust)	10 mg/ m <sup>3</sup>
Silicon Carbide	None Established	10 mg/m <sup>3</sup> (inhalable) 3mg/m <sup>3</sup> (respirable)
Zirconium Oxide (as zirconium compounds)	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup> 10 mg/ m <sup>3</sup> STEL
Cured Phenolic Resin	None Established	None Established
Graphite	15 mppcf	2 mg/ m <sup>3</sup> (respirable)
Calcium Carbonate	5 mg/m <sup>3</sup> (Respirable fraction) 15 mg/m <sup>3</sup> (total dust)	None Established
Cryolite (as fluorides)	2.5 mg/ m <sup>3</sup>	2.5 mg/m <sup>3</sup>
Fiberglass	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>

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

**Ventilation:** Use local exhaust or general ventilation as required to minimize exposure to dust and maintain the concentration of contaminants below the TLVs.

**Respiratory Protection:** Use NIOSH approved respirator if exposure limits are exceeded or where dust exposures are excessive. Consider the potential for exposure to components of the coatings or base material being ground in selecting proper respiratory protection. Refer to OSHA's specific standards for lead, cadmium, etc. where appropriate. Selection of respiratory protection depends on the contaminant type, form and concentration. Select and use respirators in accordance with OSHA 1910.134 and good industrial hygiene practice.

**Gloves:** Cloth or leather gloves recommended.

**Eye Protection:** Safety goggles or face shield over safety glasses with side shields.

**Other:** Protective clothing as needed to prevent contamination of personal clothing. Hearing protection may be required.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Boiling Point:** Not Applicable

**Solubility in Water:** Insoluble Vapor

**Specific Gravity:** Not Applicable

**Vapor Pressure:** (mm Hg) Not Applicable

**Density: (Air = 1)** Not Applicable

**Evaporation Rate:** Not Applicable

**Melting Point:** Not Applicable

**Flash Point:** Non-Combustible

**Flammable Limits: LEL:** Not Applicable

**UEL:** Not Applicable

**Appearance and Odor:** Black, brown or reddish colored solid wheel with no odor.

## 10. STABILITY AND REACTIVITY

**Stability:** Stable

**Incompatibility:** 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.

**Hazardous Polymerization:** Will not occur.

## 11. TOXICOLOGICAL INFORMATION

### HEALTH HAZARDS:

**Ingestion:** None expected under normal use conditions. Swallowing large pieces may cause obstruction of the gastrointestinal tract.

**Inhalation:** Dust may cause respiratory irritation.

**Eye:** Dust may cause eye irritation. Dust particles may cause abrasive injury to the eyes.

**Skin:** None expected under normal use conditions. Rubbing product across the skin may cause mechanical irritation or abrasions. Sensitization: This material is not known to cause sensitization.

**Chronic:** 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:** Unknown.

**Medical Conditions Aggravated by Exposure:** Employees with pre-existing respiratory disease may be at risk from exposure.

**Acute Toxicity Values:** This product and its components are not acutely toxic. The only acute toxicity data available for the components are listed below.

Aluminum Oxide: Oral rat LD50 >5,000 mg/kg

Cryolite: Oral rat LD50 >5,000 mg/kg

## 12. ECOLOGICAL INFORMATION

No ecological data is available for this product. 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.

## 13. DISPOSAL CONSIDERATIONS

Dispose in accordance with all applicable local, state/provincial and federal regulations.

## 14. TRANSPORT INFORMATION

### DOT Hazardous Materials Description:

Proper Shipping Name: Not Regulated

UN Number: None Hazard Class/Packing Group: None

Labels Required: None

## 15. REGULATORY INFORMATION

**SARA Section 311/312 Hazard Categories:** Not Applicable (manufactured articles)

**Safety, Health & Environmental regulation :** No data available.

## 16. OTHER INFORMATION

**Date SDS prepared:** New SDS

**Date Revision:** Mar. 10th, 2016

**For customer's required item:**

#71485-0 14"x1/8"x1" A30R 2G

#71485-1 14"x3/32"x1" A30R 2G