

## Safety Data Sheet: Sanding and Polishing Discs

### SECTION 1: IDENTIFICATION

Product Name: Sanding and Polishing Discs  
Catalog Numbers: All sizes, all grits, all centers, all backings  
Product Classification: Abrasive product  
Manufactured By: E.C. Moore Co., Inc.  
13325 Leonard Street  
Dearborn, MI 48126  
Telephone: 1-800-331-3548  
Emergency Number: Chemtrec 1-800-424-9300  
Date Prepared: April 8, 2015  
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Product Use: Abrasive product.

### SECTION 2: HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

This information is based on findings from related and/or similar materials

This product is paper or plastic coated with abrasive material and cut into round discs of various diameters, grits, and centers.

#### Potential Health Effects, Signs, and Symptoms of Exposure:

**Eye:** Under normal use conditions, no health effects are anticipated. However, dust may cause abrasive injury to the eye.

**Skin:** Under normal use conditions, no health effects are anticipated.

**Inhalation:** Under normal use conditions, no health effects are anticipated.

**Ingestion:** Under normal use conditions, no health effects are anticipated.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Identity	CAS Number	EINECS#	INCI Name	Exposure OSHA TWA/STEL	Limits ACGIH TWA/STEL	Carcinogen IARC/NTP/OSHA	% *
Aluminum Oxide	1344-28-1	215-691-6	Aluminum Oxide	15 mg/m <sup>3</sup> (as total dust): 5 mg/m <sup>3</sup> (respirable fraction)	1 mg/m <sup>3</sup> (respirable fraction)	Not Listed	0 – 50
And/or Iron Oxide	1309-37-1	215-168-2	Iron Oxide	15 mg/m <sup>3</sup> (as total dust): 5 mg/m <sup>3</sup> (respirable fraction)	10 mg/m <sup>3</sup> (as total dust): 3 mg/m <sup>3</sup> (respirable fraction)	Not Listed	0 - 30
And/or Silicon Carbide	409-21-2	206-991-8	Silicon Carbide	15 mg/m <sup>3</sup> (as total dust): 5 mg/m <sup>3</sup> (respirable fraction)	10 mg/m <sup>3</sup> (as total dust): 3 mg/m <sup>3</sup> (respirable fraction)	Not Listed	0 – 50
And/or Garnet	1302-62-1	Not Listed	Not Applicable	15 mg/m <sup>3</sup> (as total dust): 5 mg/m <sup>3</sup> (respirable fraction)	None Established	Not Listed	0 – 50
And/or Emery	1309-37-1	Not Listed	Not Applicable	15 mg/m <sup>3</sup> (as total dust): 5 mg/m <sup>3</sup> (respirable fraction)	None Established	Not Listed	0 – 50
Trace Minerals	Mixture	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	0 – 3
Titanium Dioxide	13463-67-7	263-675-5	Titanium Dioxide	15 mg/m <sup>3</sup> (as total dust): 5 mg/m <sup>3</sup> (respirable fraction)	10 mg/m <sup>3</sup> (as total dust): 3 mg/m <sup>3</sup> (respirable fraction)	Possible Human Carcinogen	≤1
Cured Resin	Mixture	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	5 – 20
Backing	Mixture	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	20 - 50

\*The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret by the manufacturer.

## SECTION 4: FIRST AID MEASURES

The following first aid recommendations are based on an assumption that appropriate personal hygiene and industrial hygiene practices are followed.

- Eye Contact:** Flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms persist, get medical attention.
- Skin Contact:** Wash with soap and water. If signs/symptoms persist, get medical attention.
- Inhalation:** Remove person to fresh air. If you feel unwell, get medical attention.
- Ingestion:** Under normal use conditions, no need for first aid measures is anticipated.

## SECTION 5: FIRE FIGHTING MEASURES

### Suitable Extinguishing Media:

In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam to extinguish.

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## **Special Hazards Arising from the Substance of Mixture:**

None inherent in this product.

## **Hazardous Decomposition or By-Products:**

Carbon Monoxide during combustion.

Carbon Dioxide during combustion.

## **Special Protective Actions for Fire Fighters:**

No unusual fire or explosion hazards are anticipated.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

### **Personal Precautions:**

Observes precautions from other sections.

### **Environmental Precautions:**

Not applicable.

### **Methods and Material for Containment and Cleaning Up:**

Not applicable.

## **SECTION 7: HANDLING AND STORAGE**

### **Precautions for Safe Handling:**

Avoid breathing dust created by sanding or polishing. Damaged product can break apart during use and may cause injury to face and eyes. Use appropriate PPE, which may include gloves, eye protection, and face protection. Check product for damage such as cracks or nicks prior to use. Replace if damaged. Always wear eye and face protection when working at sanding or polishing operations, or when near such operations. Avoid release to the environment. Combustible dust may form by action of this product on another material (substrate). Dust generated from the substrate during use of this product may be explosive if in sufficient concentration with an ignition source. Dust deposits should not be allowed to accumulate on surfaces because of the potential for secondary explosion.

### **Conditions for Safe Storage Including Any Incompatibilities:**

No special storage requirements.

## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **Engineering Controls:**

Provide appropriate local exhaust ventilation for sanding or polishing. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures. If ventilation is not adequate, use respiratory protection equipment. Provide local exhaust at process emission sources to control exposure near the source and to prevent escape of dust into the work area. Ensure that dust-handling systems are designed in a manner to prevent the escape of dust into the work area.

### **Eye/Face Protection:**

To minimize the risk of injury to face and eyes, always wear eye and face protection when working at sanding or polishing operations, or when near such operations. Select and use eye/face protection to prevent contact based on results of an exposure assessment. Safety glasses with side shields are recommended.

### **Skin/Hand Protection:**

Wear appropriate gloves to minimize risk of injury to skin from contact with dust or physical abrasion from sanding or polishing.

**Respiratory Protection:**

Assess exposure concentrations of all materials involved in the work process. Consider material being abraded when determining the appropriate respiratory protection. Select and use appropriate respirators to prevent inhalation overexposure. An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select a half face-piece or full face-piece air-purifying respirator suitable for particulates. Specific questions about the suitability of using any respirator should be discussed with your respirator manufacturer.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

**Information on Basic Physical and Chemical Properties:**

General Physical Form:	Solid	Odor, Color, Grade:	Solid Abrasive Product
Odor Threshold:	Not Applicable	Odor Threshold:	Not Applicable
pH:	Not Applicable	Melting Point:	Not Applicable
Boiling Point:	Not Applicable	Flash Point:	Not Applicable
Flammability (solid, gas):	Not Classified	Flammable Limits (LEL):	Not Applicable
Flammable Limits (UEL):	Not Applicable	Vapor Pressure:	Not Applicable
Vapor Density:	Not Applicable	Specific Gravity:	Not Applicable
Solubility in Water:	Not Applicable	Solubility-Non-Water:	Not Applicable
Partition coefficient: n-octanol/water:	Not Applicable	Autoignition Temperature:	Not Applicable
Decomposition Temperature:	Not Applicable	Viscosity:	Not Applicable

**SECTION 10: STABILITY AND REACTIVITY**

**Reactivity:**

This material is considered to be non-reactive under normal use conditions.

**Chemical Stability:**

Stable.

**Possibility of Hazardous Reactions:**

Hazardous polymerization will not occur.

**Conditions to Avoid:**

None known.

**Incompatible Materials:**

None known.

**Hazardous Decomposition Products:**

None known.

**SECTION 11: TOXICOLOGY INFORMATION**

**Inhalation:**

Dust from sanding and polishing may cause irritation of the respiratory system. Signs/symptoms may include: cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

**Skin Contact:**

Mechanical skin irritation. Signs/symptoms may include: abrasion, redness, pain and itching.

**Eye Contact:**

Mechanical eye irritation. Signs/symptoms may include: pain, redness, tearing and corneal abrasion. Dust created by sanding and polishing may cause eye irritation. Signs/symptoms may include: redness, swelling, pain, tearing, and blurred or hazy vision.

**Ingestion:**

No health effects are expected.

**Carcinogenicity:**

Titanium Dioxide, CAS# 13463-67-7 (EINECS# 263-675-5) is listed by the IARC as a Group 2B material, a *Possible Human Carcinogen*.

**Additional Information:**

This document covers only the standard abrasive discs produced by EC Moore. For complete assessment, when determining the degree of hazard, the material being abraded must also be considered.

While this product contains small amounts of titanium dioxide, under normal use conditions, no exposure to inhaled titanium dioxide is expected. The health effects associated with titanium dioxide are not expected during normal use of this product.

**Toxicological Data:**

Acute Toxicity:	Aluminum Oxide Dermal: LD50 estimated >5000mg/kg Inhalation: LC 50 >2.3 mg/l Ingestion: LD50 >5000mg/kg  Silicon Carbide Dermal: LD50 estimated >2000mg/kg Inhalation: Ingestion: LD50 >5000mg/kg  Titanium Dioxide Dermal: LD50 estimated >10000mg/kg Inhalation: LC 50 >6.8 mg/l Ingestion: LD50 >5000mg/kg
Skin Corrosion/Irritation:	Aluminum Oxide: No significant irritation Titanium Dioxide: No significant irritation
Serious Eye Damage/Irritation:	Aluminum Oxide: No significant irritation Titanium Dioxide: No significant irritation
Skin Sensitization:	Titanium Dioxide: Not sensitizing
Respiratory Sensitization:	
Germ Cell Mutagenicity:	Aluminum Oxide: Not mutagenic Titanium Dioxide: Not mutagenic
Carcinogenicity:	Aluminum Oxide: Not carcinogenic Titanium Dioxide: Inhalation: Possible carcinogen Ingestion: Not carcinogenic
Reproductive and/or Developmental Effects:	
Specific Target Organ Toxicity – Single Exposure:	
Specific Target Organ Toxicity – Repeated Exposure:	Aluminum Oxide: Inhalation: Pnuemoconiosis / Pulmonary Fibrosis (occupational exposure)  Silicon Carbide: Inhalation: Pnuemoconiosis  Titanium Dioxide: Inhalation: Respiratory System (2-years) Pulmonary Fibrosis (occupational exposure)

## SECTION 12: ECOLOGICAL INFORMATION

### Ecotoxicological Information:

This product is expected to present a low environmental risk either because use and disposal are unlikely to result in a significant release of components to the environment, or, because those components that may be released are expected to have insignificant environmental impact.

### Chemical Fate Information:

This product is expected to present a low environmental risk either because use and disposal are unlikely to result in a significant release of components to the environment, or, because those components that may be released are expected to have insignificant environmental impact.

## SECTION 13: DISPOSAL CONSIDERATIONS

### Disposal Methods:

Dispose of contents/container in accordance with the local/regional/national/international regulations.

The substrate that was abraded must be considered as a factor in the disposal method for this product. Dispose of waste product in a permitted industrial waste facility. As a disposal alternative, incinerate product in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during the incineration process.

### EPA Hazardous Waste Number (RCRA):

Not regulated.

## SECTION 14: TRANSPORTATION INFORMATION

Not regulated per U.S. DOT, IATA or IMO.

## SECTION 15: REGULATORY INFORMATION

**TSCA Status:** On Toxic Substance Control Inventory.

**CERCLA Reportable Quantity:** None.

**SARA Title III:**  
Section 302: None.  
Section 311/312: None.  
Section 313: None.

**RCRA Status:** Not regulated.

**WHMIS:** Not regulated.

## SECTION 16: OTHER INFORMATION

### Hazard Rating System (Pictograms)

#### NFPA:



#### HMIS:



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