

**1. PRODUCT AND COMPANY IDENTIFICATION**

**Product Identity / Trade Name:** Coated Abrasives - Resin over Resin, Cotton Cloth, Polyester Backing or Paper (Cloth or Paper belts or Sheets, Flap Wheels, **Flap Discs**, PSA Cloth Discs, Paper Stearate Discs, Shop Rolls, Abrasive Belts, Floor Sanding Products)

**Manufacturer:** Pine Zone(Zhengzhou)Abrasive Industry Co.,Ltd  
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**MSDS Date of Preparation:** March28, 2008

**2. COMPOSITION/INFORMATION ON INGREDIENTS**

<b>Hazardous Component</b>	<b>CAS #</b>	<b>%</b>
Aluminum Oxide	1344-28-1	0-50
and/or Silicon Carbide	409-21-2	0-50
and/or Garnet	12178-41-5	0-30
and/or Zirconium Oxide	1314-23-4	0-30
Cured Phenolic or Urea Formaldehyde Resin	N/A	5-40
and/or Calcium Carbonate	1317-65-3	0-25
and/or Calcium Stearate	1592-23-0	5-10
and/or Zinc Stearate	557-05-1	0-10
and/or Cryolite (as fluorides)	15096-52-3	0-15
and/or Iron Oxide	1309-37-1	0-2
and/or Potassium Fluoroborate	14075-53-7	5-0
and/or Flame Retardant	Proprietary	0-8
and/or Titanium Dioxide	13463-67-7	0-5
Cotton or Polyester Cloth	N/A	15-55
and/or paper backing	N/A	20-65

**3. HAZARDS IDENTIFICATION**

This product is cloth or paper coated with abrasive material in sheets, belt, discs or on wheels

**EMERGENCY OVERVIEW**

Dust may cause eye and respiratory irritation. Dust particles may cause abrasive injury to the eyes.

**4. FIRST AID MEASURES**

**Ingestion:** If sanding dust is swallowed, seek medical attention.

**Inhalation:** If overexposed to sanding 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**

**Flash Point:** Non-Combustible      **Flammable Limits: LEL:** Not Applicable      **UEL:** Not Applicable

**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 sanded, 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. Consider potential exposure to components of the base materials or coatings being sanded or ground. Refer to OSHA's substance specific standards for additional work practice requirements where applicable.

**Storage:** Store in a dry location.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Exposure Guidelines:**

Hazardous Component	OSHA PEL	ACGIH TLV
Aluminum Oxide	15 mg/m3 (total dust)	10 mg/m3
Silicon Carbide	15 mg/m3 (total dust)	10 mg/m3 (inhalable fraction)
Garnet	15 mg/m3 (total dust)	None Established
Zirconium Oxide	5 mg/m3	5 mg/m3 10 mg/m3 STEL
Cubitron	None Established	None Established
Cured Phenolic Resin	None Established	None Established
Urea Formaldehyde Resin	None Established	None Established
Calcium Carbonate	15 mg/m3 (total dust)	10 mg/m3
Calcium Stearate	15 mg/m3 (total dust)	None Established
Zinc Stearate	15 mg/m3 (total dust)	10 mg/m3
Cryolite (as fluorides)	2.5 mg/m3	2.5 mg/m3
Iron Oxide	10 mg/m3	5 mg/m3
Potassium Fluoroborate (as fluorides)	2.5 mg/m3	2.5 mg/m3
Flame Retardant	None Established	None Established
Titanium Dioxide	15 mg/m3 (total dust)	10 mg/m3
Cotton or Polyester Cloth	None Established	None Established
Paper Backing	None Established	None Established
Fibre	None Established	None Established

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

**Specific Gravity:** Not Applicable

**Melting Point:** Not Applicable

**Appearance and Odor:** Cloth or paper coated with abrasive material in sheets, discs or on wheels.

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

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

**Evaporation Rate:** Not Applicable

**Flash Point:** Non-Combustible

## 10. STABILITY AND REACTIVITY

**Stability:** Stable

**Incompatibility:** None known.

**Hazardous Decomposition Products:** Dust from sanding could contain ingredients listed in Section 2 and other, potentially more hazardous components of the base material being sanded 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 sanded. Most of the dust generated during sanding is from the base material being sanded and the potential hazard from this exposure must be evaluated.

**Carcinogenicity:** None of the components is listed as a carcinogen or potential carcinogen by OSHA, NTP or IARC.

**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.

Cryolite: LD50 Oral rat >5g/kg

Zinc Stearate: LD50 Oral rat >10 gm/kg

Calcium Stearate: LD50 Oral rat >10 gm/kg

## 12. ECOLOGICAL INFORMATION

This product is not expected to be hazardous for the environment. No specific ecotoxicity data is available for this product.

**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.

**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

**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):

Zinc Stearate (as zinc compounds)	557-05-1	0-10%
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(Only in 9x11 Sheets - No Load Stearate, Fileboard Sheets - No Load, PSA Paper Discs - Stearate and Premium and Hook and Loop Paper Discs - Premium)

**16. OTHER INFORMATION**

**NFPA Hazard Rating:** Health: 1  
Fire: 0  
Reactivity: 0

**Date Previous Revision:** 2007/5/11

**Date This Revision:** 2008/3

**Revision Summary:** Overall update to MSDS

**Prepared By:** Jianwei, Feng / Pine Zone Abrasive Industry, Zhengzhou.

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 Pine Zone Abrasives Industry, it is the user's obligation to assure safe use of this product.