SAFETY DATA SHEET
Coated Abrasives (2/14)
SDS #13

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: Coated Abrasives
Covers:
COMBIDISC Mini-POLIFAN discs CD PFF
POLIFAN PFF, PFC
Flap Wheels FR
Overlap Slotted Discs KS
Fan Grinders F
Abrasive Spiral Bands KSB, GSB
POLICAP Abrasive Cap PCH
Abrasive Bands BG, BP
COMBIDISC Abrasive disc CD, CDR
ATADISC Abrasive disc AD
POLISTAR PST
POLISTAR TUBE PST-T
Self-Adhesive Discs KR
Velcro-Backes Abrasive Discs KSS
Economy Rolls SBR
Economy Rolls SBR-P
Fiber Discs FS (Standard)
COMBIDISC Mini fibre disc CDF
POLIROLL Untapered Cartridge Rolls (PR), Tapered Cartridge Rolls (PRK)
POLICO PCO
POLICAP Abrasive Cap
Portable Belts BA
Benchstand Belts BA
Fiber Discs FS-CC
CC-GRIND
CC-GRIND SOLID

Identified Uses of the Manufactured Article and Uses Advised Against: Abrasive materials.

Details of the Supplier of the Safety Data Sheet
Manufacturer: PFERD INC.
30 Jytek Drive
Leominster, MA01453

Internet: www.pferd.com

E-Mail: Jim.Haglund@pferdusa.com

Information Phone: (978)840-6420

Emergency Telephone Number: (978)840-6420 (8.00 a.m. to 4.30 p.m. Eastern Time)

SDS Date of Preparation: May 02, 2014

2. HAZARDS IDENTIFICATION

This product is a coated abrasive tool.

EMERGENCY OVERVIEW

In solid form, product does not present a hazard. Dust may cause eye and respiratory irritation. Dust particles may cause abrasive injury to the eyes. May be harmful if inhaled. This product contains Cryolite that may cause harm to breast-fed children, and may cause damage to lungs and skeletal system through prolonged inhalation or ingestion. Dust generated during processing or use may present a combustible dust explosion hazard.

Other Hazards

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 grinding is from the base material being sanded and the potential hazard from this exposure must be evaluated.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Component	CAS #	%
Aluminum oxide	1344-28-1	0-70
and/or Vulcanized fiber	Mixture	0-70
and/or Silicon carbide	409-21-2	0-60
and/or Cotton Cloth	Mixture	0-60
and/or Polyester cloth	Mixture	0-55
and/or Paper	Mixture	0-50
and/or Fiberglass weaves	65997-17-3	0-45
and/or Cotton-polyester cloth	Mixture	0-40
and/or Phenol-formaldehyde resin, cured	9003-35-4	0-40
and/or Zirconium dioxide	1314-23-4	0-30
and/or Epoxy resin, cured	25068-38-6	0-30
and/or Calcium carbonate	471-34-1	0-25
and/or Potassium aluminium fluoride	60304-36-1	0-25
and/or Velcro fabric	Mixture	0-20
and/or Potassium tetrafluoroborate	14075-53-7	0-20
and/or Cryolite	13775-53-6	0-20
and/or EPDM	25038-36-2	0-15
and/or Polyurethane resin, cured	Mixture	0-10
and/or Rubber, vulcanized	Mixture	0-10
and/or Iron oxide	1345-25-1; 1309-37-1	0-1

4. FIRST AID MEASURES

Description of First Aid Measures

Ingestion: If sanding dust is swallowed, seek immediate medical attention.
Inhalation: If overexposed to sanding dust, remove victim to fresh air and get immediate medical attention.
Eye Contact: Flush eyes thoroughly with water, holding open eyelids. Get medical attention if irritation or symptoms occur and persist.
Skin Contact: Wash dust immediate from skin with soap and water. Launder contaminated clothing before reuse. Get medical attention.

Most Important symptoms and effects, both acute and delayed: Use may generate dust that may cause eye and respiratory tract irritation. Dust may be acutely toxic by inhalation. Cryolite may cause harm to breast-fed children. Inhalation or ingestion of Cryolite may cause damage to lungs or may cause skeletal fibrosis.

Indication of any immediate medical attention and special treatment needed: None known.

5. FIRE FIGHTING MEASURES

Extinguishing Media: Use class D extinguishing media on fines, dust, or molten metal. Use coarse water spray on chips and fires. Do NOT use halogenated extinguishing agents on small chips or fines. Do NOT use water for fires involving molten metal. These fire extinguishing agents will react with burning metal.

Special Hazards Arising from the Manufactured Article
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.

Advice for Fire-Fighters: Wear an approved, positive pressure, self-contained breathing apparatus and full protective clothing.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:
Minimize generation of dust. Use appropriate protective equipment to avoid inhalation and eye contact if dust is generated.

Environmental Precautions:
Prevent product from entering drains. Do not flush into surface water or storm drains. Notify authorities as required by local, state and federal regulations.

Methods and Material for Containment and Cleaning Up:
Collect in a material that minimizes the creation of dust and place in a container for disposal. Nonsparking tools should be used. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentrations. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).

Reference to Other Sections: Refer to Section 8 for personal protective equipment and Section 13 for proper disposal.

7. HANDLING AND STORAGE

Precautions for Safe Handling: Use only with adequate ventilation. Avoid generating and 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.

Keep product away from heat, flames and other sources of ignition. Potential dust explosion hazard - use good housekeeping to prevent accumulation of dust in the work area. Dry powders can build static electricity charges when subjected to friction of transfer and in mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.

Conditions for Safe Storage, Including any Incompatibilities: Store in a dry location.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters:

Hazardous Component	OSHA PEL	ACGIH TLV	Ontario	Québec
Aluminum oxide	15 mg/m^3 TWA (Total Dust) 5 mg/m^3 TWA (Respirable)	1 mg/m^3 TWA (respirable) (as Al metal)	None Established	10 mg/m^3 TWA
and/or Vulcanized fiber	None Established	None Established	None Established	None Established
and/or Silicon carbide	15 mg/m^3 TWA (Total Dust) 5 mg/m^3 TWA (Respirable)	0.1 f/cc TWA	10 mg/m^3 TWA (Inhalable) 3 mg/m^3 TWA (Respirable)	10 mg/m^3 TWA
and/or Cotton Cloth	None Established	None Established	None Established	None Established
and/or Polyester cloth	None Established	None Established	None Established	None Established
and/or Paper	15 mg/m^3 TWA (Total Dust) 5 mg/m^3 TWA (Respirable)	10 mg / m^3 TWA	10 mg / m^3 TWA	10 mg / m^3 TWA
and/or Fiberglass weaves	15 mg/m^3 TWA (total dust) 5 mg/m^3 TWA (respirable)	5 mg/m^3 TWA (Inhalable) 1 f/cc TWA	1 f/cc (inhalable) TWA	10 mg/m^3 TWA (total dust) 2 f/cc TWA
and/or Cotton-polyester cloth	None Established	None Established	None Established	None Established
and/or Phenol-formaldehyde resin	15 mg/m^3 TWA (Total Dust) 5 mg/m^3 TWA (Respirable)	None Established	None Established	None Established
and/or Zirconium dioxide (as Zr)	5 mg/m^3 TWA	5 mg/m^3 TWA 10 mg/m^3 STEL	5 mg/m^3 TWA 10 mg/m^3 STEL	5 mg/m^3 TWA 10 mg/m^3 STEL
and/or Epoxy resin, cured	None Established	None Established	None Established	None Established
and/or Calcium carbonate	15 mg/m^3 TWA (Total Dust) 5 mg/m^3 TWA (Respirable)	None Established	None Established	10 mg/m^3 TWA
and/or Potassium aluminum fluoride	2.5 mg/m^3 TWA (as F)	2.5 mg/m^3 TWA (as F)	2.5 mg/m^3 TWA (as F)	2.5 mg/m^3 TWA (as F)
and/or Velcro fabric	None Established	None Established	None Established	None Established
and/or Potassium tetrafluoroborate	2.5 mg/m^3 TWA (as F)	2.5 mg/m^3 TWA (as F)	2.5 mg/m^3 TWA (as F)	2.5 mg/m^3 TWA (as F)
and/or Cryolite	2.5 mg/m^3 TWA (as F)	2.5 mg/m^3 TWA (as F)	2.5 mg/m^3 TWA (as F)	2.5 mg/m^3 TWA (as F)
and/or EPDM	None Established	None Established	None Established	None Established
and/or Polyurethane resin, cured	None Established	None Established	None Established	None Established
and/or Rubber,vulcanized	None Established	None Established	None Established	None Established

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

Exposure Controls

Ventilation: Use local exhaust or general ventilation as required to minimize exposure to dust and maintain the concentration of contaminants below the occupational exposure limits.
Respiratory Protection: Use an 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 local regulations for specific standards where appropriate. Selection of respiratory protection depends on the contaminant type, form and concentration. Select and use respirators in accordance with applicable regulations and good industrial hygiene practice. Follow 29 CFR 1910.1025, 1910.1018, and 1910.1029 for specific respiratory protection requirements when working with the applicable compounds.
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

Information on basic Physical and Chemical Properties

Appearance: Coated abrasive material.
Odor: Odorless
Boiling Point: Not Available
Solubility in Water: Insoluble
Specific Gravity: Not Available
pH: Not Applicable
Melting/Freezing Point: Not available
Flammable Limits: **LEL**: Not Applicable
Autoignition Temperature: Not Applicable
Viscosity: Not Applicable
Oxidizing Properties: Not an Oxidizer
Molecular Formula: Mixture
Odor Threshold: Not Applicable
Vapor Pressure: Not Applicable
Vapor Density: (Air = 1) Not Applicable
Evaporation Rate: Not Applicable
Octanol/Water Partition Coefficient: Not Available
Flash Point: Not Applicable
UEL: Not Applicable
Decomposition Temperature: Not Available
Explosive Properties: Not Explosive
Relative Density: Not available
Molecular Weight: Mixture
Flammability (solid, gas): Dust may form combustible dust

10. STABILITY AND REACTIVITY

Reactivity: Not reactive
Chemical Stability: Stable
Possibility of Hazardous Reactions: Not expected to occur
Conditions to Avoid: Avoid dust formation. Avoid heat, flames, and sparks.
Incompatible Materials: Acids, alkalis, water, moisture, and metal oxides.
Hazardous Decomposition Products: Dust from grinding could contain ingredients listed in Section 3 and other, potentially more hazardous components of the base material being sanded or coatings applied to the base material.

11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects:

Ingestion: None expected under normal use conditions. See repeat exposure for chronic effects from ingredients of this product.
Inhalation: Dust may cause respiratory irritation. May be harmful by inhalation. Prolonged inhalation may cause lung damage. See repeat exposure for chronic effects from ingredients of this product.

Eye: Dust may cause eye irritation. Dust particles may cause abrasive injury to the eyes. See repeat exposure for chronic effects from ingredients of this product.
Skin: None expected under normal use conditions. Rubbing product across the skin may cause mechanical irritation or abrasions. See repeat exposure for chronic effects from ingredients of this product.

Acute Toxicity Values:
Aluminum oxide: Oral rat LD50 – >15,900 mg/kg; Inhalation rat LC50 – 7.6 mg/L
Silicon carbide: Oral rat LD50 – >2000 mg/kg; Dermal rabbit LD50 – >2000 mg/kg
Zirconium dioxide: Oral rat LD50 – >5000 mg/kg; Inhalation rat LC50 – >4.3 mg/L/4 hr (highest conc. Achievable with no deaths)
Calcium carbonate: Oral rat LD50 – >2000 mg/kg; Inhalation rat LC50 – >3 mg/L/4 hr; Dermal rabbit LD50 – >2000 mg/kg
Potassium tetrafluoroborate: Oral rat LD50 – >2000 mg/kg; Inhalation rat LC50 – >5300 mg/m^3/4 hr
Cryolite: Oral rat LD50 – >5000 mg/kg; Inhalation rat LC50 – 4.47 mg/L/4 hr; Dermal rabbit LD50 – >2100 mg/kg
Potassium Aluminium Fluoride: LC50 Inhalation rat > 4.92 mg/L/1 hr

Skin corrosion/irritation: Not corrosive or irritating.
Eye damage/irritation: May cause mechanical eye irritation.
Respiratory irritation: May cause respiratory tract irritation.
Respiratory Sensitization: Not expected to cause sensitization.
Skin Sensitization: Not expected to cause skin sensitization.
Germ Cell Mutagenicity: Not expected to be a mutagen
Carcinogenicity: None of the components of this product are listed as a carcinogen or potential carcinogen by OSHA, NTP or IARC.
Reproductive Toxicity: Product contains cryolite. Cryolite may cause harm to breast-fed children through effects via lactation.
Specific Target Organ Toxicity:
Single Exposure: No data available
Repeat Exposure: Repeated exposure may cause damage to lungs and skeletal system through prolonged inhalation or ingestion.

12. ECOLOGICAL INFORMATION

Toxicity
No ecological data is available for this product. This product contains ingredients that are toxic to aquatic organisms with long-lasting effects. Avoid environmental releases.

Persistence and Degradability: No data available

Bioaccumulative Potential: No data available

Mobility in Soil: Not applicable

Results of PBT and vPvB Assessment: Not applicable

Other Adverse Effects: Not applicable

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods:
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

	14.1 UN Number	14.2 UN Proper Shipping Name	14.3 Hazard Class(s)	14.4 Packing Group	14.5 Environmental Hazards
US DOT	None	Not Regulated	None	None	No
Canadian TDG	None	Not Regulated	None	None	No
EU ADR/RID	None	Not Regulated	None	None	No
IMDG	None	Not Regulated	None	None	No
IATA/ICAO	None	Not Regulated	None	None	No

Special Precautions for User: Not applicable

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code: Not applicable

15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations/Legislation Specific for the Manufactured Article:

US Regulations:

SARA Section 311/312 Hazard Categories: Acute Health, Chronic Health

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):

Aluminum oxide (fibrous form) 1344-28-1 0-70%

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. This product does not contain any chemicals known to the state of California to cause cancer and/or reproductive harm.

Canadian Regulations:

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.

16. OTHER INFORMATION

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

Date Previous Revision: None
Date This Revision: 05/02/2014
Revision Summary: 1 (New SDS)
Prepared By: Chandra D Gioiello, CIH IH&SC Inc., Shelton, CT 06484
Dr. Axel Deeg. ADEEGO GmbH, Wildsteig 4A, 42113 Wuppertal, Germany

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