086-023, 086-024, 086-025

Dedeco International, Inc.
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Material Safety Data Sheet

Identity (As Used on Label and List)

Organic Bonded Grinding Wheels, Fibre-Cut Discs & Model Trimmer Wheels

SECTION I

Manufacturer's Name	**Emergency Telephone Number**
DEDECO INTERNATIONAL, INC.	845-887-4840
Address	**Telephone Number for Information**
Route 97	845-887-4840
Long Eddy, New York 12760	
	Date Prepared
	April 7, 2008

SECTION II – HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

Hazardous Components (Specific Chemical Identity; Common Name(s))		**OSHA PEL**	**ACGIH TLV**	**Recommended % (optional)**
Aluminum Oxide-	CAS 1344-28-1	15 mg/m3	10 mg/m3	60.0 – 95.0
Silicon Carbide	CAS 409-21-2	15 mg/m3	10 mg/m3	55.0 – 95.0
Zirconium Oxide	CAS 1314-23-4	5 mg/m3 (Zr)	5 mg/m3 (Zr)	0.0 - 9.0
Phenol / Formaldehyde binder*	None Found	None Found	None Found	5.0 – 20.0
(Cured Phenolic Resin)				
Fiberglass= (Reinforcing Fiber)	CAS 65997-17-3	15 mg/m3	10 mg/m3	0.0 - 7.0
Graphite	CAS 7782-42-5	15 mppcf	2 mg/m3 (dust)	0.0 - 2.0
Calcium Oxide (Lime)	CAS 1305-78-8	5 mg/m3	2 mg/m3	0.0 - 3.0
Fluorides+** (Fluoride Cmpds.)	CAS Various	2.5 mg/m3 (F)	2.5 mg/m3 (F)	1.0 – 15.0
Calcium Compounds **	CAS Various	10 mg/m3 (total dust)	10 mg/m3 (dust)	1.0 – 12.0
Sulfates & Sulfides ** (Sulfur Cmpds.)	CAS Various	10 mg/m3 (total dust)	10 mg/m3 (dust)	0.0 – 15.0
Rubber (Liquid Rubber)	CAS 78-79-5	None Found	None Found	0.0 - 2.0

-	Aluminum Oxide is at least 96% pure, usually containing other metallic oxides as impurities.
*	Free Phenol (108-95-2) (PEL & TLV:5ppm) and free Formaldehyde (50-00-0) (PEL:0.75 ppm, TLV:1ppm) may be present in trace amounts.
**	Substance is a compound and/or mixture.
+	Maximum Fluoride Content, as F is 9.05%. Fluoride may be released in trace amounts under normal use.
=	Present only in fiberglass reinforced wheels.

SECTION III – PHYSICAL CHEMICAL CHARACTERISTICS

Boiling Point	N/A	**Specific Gravity (H20 = 1)**	2.0 to 4.0
Vapor Pressure (mm Hg.)	N/A	**Melting Point**	N/A
Vapor Density (Air = 1)	N/A	**Evaporating Rate (Butyl Acetate = 1)**	N/A
Solubility in Water	Insoluble to slight		
Appearance and Odor	Light or medium grey, brown, black or maroon colored, porous solid. No detectable odor.		

SECTION IV – FIRE AND EXPLOSION HAZARD DATA			
Flash Point (Method Used)	N/A	**Flammable Limit**	LEL: N/A UEL: N/A
Extinguishing Media	Water, foam or CO2.		
Special Fire Fighting Procedures	Toxic fumes are evolved on burning.		
Explosion Potential:	Fumes from burning cured Phenol/formaldehyde resin contain trace formaldehyde which can cause eye, nose and throat irritation. The short term exposure limit for formaldehyde is 2ppm. Breathing apparatus should be worn to fight serious fires in confined spaces.		
SECTION V – REACTIVITY DATA			
Stability	Unstable	Stable X	
Hazardous Decomposition or Byproducts	During use, dust and decomposing organic fumes are generated which may contain trace amounts of phenol, formaldehyde and fluorides. In most cases, the material removed from the workpiece will be significantly greater than the grinding wheel components. Coolants or other surface residues may produce other decomposition products.		
Hazardous Polymerization	May Occur	Will Not Occur X	
Conditions to be Avoided	No applicable information found.		
SECTION VI – HEALTH HAZARD DATA			
Inhalation:	Dust may cause irritation to nose, throat or lungs resulting in coughing or shortness of breath.		
Chronic:	Continued excessive exposure to abrasive grains may affect breathing capacity. Signs of excessive exposure might include deposits of material in the eyes, ears, nasal passages and irritation of the mucous membranes.		
First Aid:	Classified as a nuisance dust. Remove to fresh air. Provide artificial respiration as needed and obtain medical assistance.		
Ingestion:	Non-toxic, but ingestion should be avoided.		
First Aid:	Obtain medical assistance. Contact poison control center.		
Skin:	Dust may irritate some individuals.		
First Aid:	Wash affected areas with soap and water. Obtain medical assistance if aggravated skin conditions persist.		
Eyes:	Dust may irritate eyes.		
First Aid:	Irritant. Treat as a foreign body in the eye. Flush eyes with large amounts of clean water for at least 15 minutes. If irritation persists obtain medical assistance.		
SECTION VII – PRECAUTIONS FOR SAFE HANDLING AND USE			
Steps To Be Taken In Case Material Is Released Or Spilled:	Collect and pick up materials following normal precautions for inert nuisance dusts.		
Waste Disposal Method:	Standard landfill methods consistent with applicable Federal, State and Local regulations.		
Storage:	Store in a cool, dry place and as per ANSI B7.1.		
Normal Usage:	Observe recommended running speeds. Provide adequate ventilation for nuisance dusts. Also see ANSI B7.1.		
SECTION VIII – CONTROL MEASURES			
Respiratory Protection (Specify Type):	Use approved respirator when airborne contaminant levels exceed TLVs and PELs as per OSHA 29 CFR 1910.134 or 139 (respirators) and OSHA 29 CFR 1910.1000 (air contaminants).		
Ventilation:	Good local exhaust ventilation is essential for dry grinding operations as per ANSI Z88.2, OSHA 29CFR 1910.94 (ventilation).		
Protective Gloves:	Use gloves as required. (Arm sleeves or barrier creams may be useful in the prevention of dermatitis.)		
Eye Protection:	Wear eye protection as per ANSI Z87.1 and OSHA 29 CFR 1910.133.		
Other Protection:	Exercise good personal hygiene. Hearing protection may be required as per OSHA 29 CFR 1910.95 (Hearing protection) during normal use.		