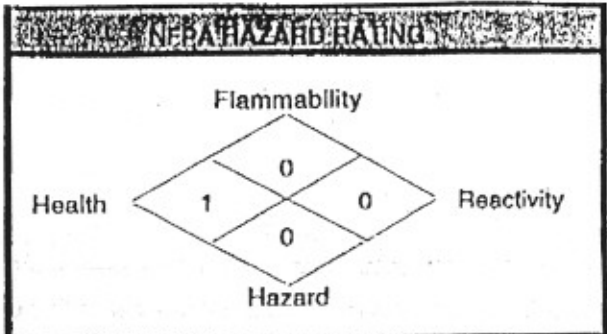


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**MATERIAL SAFETY DATA SHEET**

Used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200



**SECTION I - NAME AND PRODUCT**

FLEXOVIT USA, INC. 1305 Eden Evans Center Rd, Angola, NY 14006 Phone: (716) 549-5100 Fax: (716) 549-5455  
 Product: Resinold Bonded Abrasive Wheels Updated: 5/1/96 Contact: Technical Director

**SECTION II - COMPOSITION**

Ingredient	% By Weight	OSHA Regulate	C.A.S. #	OSHA PEL	ACGIH TLV	Other Limits	Carcinogen
Aluminum Oxide	0 - 80	No	1344-28-1	15mg/m3	10 mg/m3	N/A	No
Silicon Carbide	0 - 80	No	409-21-2	15mg/m3	10 mg/m3	N/A	No
Zirconium Oxide	0 - 50	No	1314-23-4	5mg/m3	10 mg/m3	N/A	No
Barium Compound	0 - 8	No	7727-43-7	5mg/m3	10 mg/m3	N/A	No
Zinc Compound *	0 - 5	No	N/A	5mg/m3	5 mg/m3	N/A	No
Iron Sulfide	0 - 15	No	1317-37-9	15mg/m3	10 mg/m3	N/A	No
Fluorides	0 - 15	No	NA	2.5mg/m3	2.5 mg/m3	N/A	No
Cured Phenolic Resin	10 - 30	No	9003-35-4	None Estab.	None Estab.	N/A	No
Carbon Black	0 - .2	No	1333-86-4	3.5mg/m3	3.5 mg/m3	N/A	No
Lime	0 - 3	No	1305-62-0	5mg/m3	5 mg/m3	N/A	No
Fiberglass	0 - 10	No	65997-17-3	15mg/m3	10 mg/m3	N/A	No
Cured Epoxy Resin	0 - 5	No	68609-97-2	None Estab.	None Estab.	N/A	No

\* This substance is regulated under Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986.

**SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS**

Physical State	Solid	Boiling Point	N/A	Specific Gravity (H2O=1)	2-4
Vapor Pressure (mm Hg)	N/A	Freezing Point	N/A	Odor Threshold	N/A
Vapor Density (Air=1)	N/A	Melting Point	N/A	pH	N/A
Solubility in Water	N/A	% Volatile	N/A	Evaporation Rate	N/A
Odor/Appearance	Odorless/Dark colored solid		Coefficient of Water/Oil Distribution		N/A

**SECTION IV - FIRE AND EXPLOSION DATA**

Means of Extinction	Water or Carbon Dioxide	Lower and Upper Explosion Limits	N/A
Flammable Limits	N/A	Special Fire Fighting Procedures	N/A
Flash Point	N/A	Unusual Fire or Explosion Hazards	N/A

**SECTION V. REACTIVITY DATA**

Stable - Avoid excessive moisture, high relative humidity, temperature extremes and contact with acids or solvents

Not Incompatible with any materials

Hazardous Polymerization will not occur

Dust and organic fumes are generated in use. Do not exceed TLV's.

**SECTION VI - HEALTH HAZARD DATA**

Route(s) of Entry*	Signs and Symptoms of Exposure	Emergency and First-Aid procedures
Dust Inhalation	May cause coughing and shortness of breath during grinding. May affect breathing capacity.	Terminate exposure and remove to fresh air. Obtain medical assistance.
Ingestion	No known adverse effects, but not recommended.	Obtain medical assistance.
Absorption	Not absorbed through skin.	N/A
Skin contact	Grinding wheel may cause abrasions. Dust may cause skin irritation.	Terminate exposure and remove to fresh air. Obtain medical assistance.
Eye	Dust or fumes may cause eye irritation.	Fresh air and medical assistance.
Other	Excessive noise levels may exist in use.	Cease use. Obtain medical assistance.

Medical conditions such as emphysema and asthma may be aggravated during grinding.

**SECTION VII. STORAGE HANDLING AND USE PROCEDURES**

Handling and storage procedures - Avoid damage to wheel. Do not drop. Do not use a wheel that has been damaged or dropped. Avoid excessive temperatures in storage. Always handle in accordance with ANSI B7.1.

Normal clean up procedures should be used if materials is released.

Dispose of waste in a sanitary landfill in accordance with state, local and federal regulations.

Always use in accordance with ANSI Z43.1 and OSHA 1910.215. Do not use dropped or damaged wheels. Do not use without machine guard in place. Do not exceed maximum RPM on wheel.

**SECTION VIII. CONTROL MEASURES**

Protection	Requirements and Referrals
Respiratory	OSHA or NIOSH approved respirator if TLV's exceeded. See OSHA 29 CFR 1910.134
Ventilation	Local and mechanical exhaust recommended. See ANSI Z43.1. Refer to OSHA 29 CFR 1910.94.
Protective Gloves	Not required but use if desired.
Eye Protection	Required. Refer to OSHA 29 CFR 1910.133.
Hearing Protection	Required. Refer to OSHA 29 CFR 1910.95.
Other	Apron and/or face shield if desired.
Hygienic Practices	Wash with soap and water after handling and grinding.

**SECTION IX. MSDS PREPARATION**

The information and recommendations set forth herein are taken from sources and references believed to be accurate and complete as of the date hereof. However, FLEXOVIT USA, Inc. makes no expressed or implied warranty with respect to the accuracy of the information or the suitability of the recommendations, and assumes no liability to any user thereof.