

# Material Safety Data Sheet

## **Allison ABRASIVES, INC.**

Resin & Rubber Resin Bonded Abrasive Products - Product codes beginning with 0, 2, 3, 50 & 51  
Allison Abrasives, 141 Industry Rd, Lancaster KY. 40444  
Phone - 859-792-3033

### Composition and Regulatory Information Per 29 CFR 1910.1200(g)(4)

Component	Typical Percent	CAS#	OSHA PEL	ACGIH TLV	OSHA Carcinogen
Aluminum Oxide-Non-Fibrous*	50 - 90	1344-28-01	15 mg/m3	10 mg/m3	Not Listed
Zirconium Oxide*	30 - 60	1314-23-4	5mg/m3	5mg/m3	Not Listed
Silicon Carbide*	30 - 75	409-21-2	10 mg/m3	10 mg/m3	Not Listed
Calcium Oxide	0 - 3	1305-78-8	5 mg/m3	2 mg/m3	Not Listed
Cured Phenolic Resin****	6 - 20	9003-35-4	None Found	None Found	Not Listed
Cured Rubber Compounds	0 - 5	None Found	None Found	None Found	Not Listed
Fiberglass (Reinforced wheels only)	0 - 7	65997-17-3	5mg/m3	5 mg/m3	Not Listed
Flourides ***	1 - 10	Various	2.5 mg/m3	2.5 mg/m3	Not Listed
Iron Oxide	0 - 3	1309-37-1	10 mg/m3	5 mg/m3	Not Listed
Sulfates and Sulfides***	0 - 10	Various	10 mg/m3**	10 mg/m3**	Not Listed
Titanium Dioxide	0 - 1	13463-67-7	15mg/m3	10mg/m3	Not Listed

\* Contains one or more of the listed abrasives. \*\* No specific limit found, limits listed are for total dust.

\*\*\* Substance is a compound and / or a mixture.

\*\*\*\* Cutting dust may contain trace amounts of Free Phenol (108-95-02) PEL & TLV = 5 ppm; and Free Formaldehyde (50-00-0) OSHA-PEL = .75 ppm, ACGIH-TLV = 1 ppm.

### Health Hazard Data

Route of Entry	Health Effects	First Aid & Medical Information
Inhalation (Dust)	Acute: Coughing, shortness of breath. Chronic: Excessive exposure may affect breathing capacity. Trace amounts of resin dust over long periods may cause airway obstruction. Exposure to dusts may aggravate pre-existing respiratory conditions.	Remove to fresh air, Artificial respiration if breathing has stopped, obtain medical assistance
Ingestion	Acute: No known adverse effects, but ingestion should be avoided.	Obtain medical assistance, contact poison control center.
Skin (Dust)	Acute: Some may experience skin irritation or sensitization from cutting dust.	Wash affected areas with soap & water. Obtain medical assistance.
Eyes (Dust)	Dusts may irritate eyes	Wash with large amounts of water. Obtain medical assistance.
Other	Excessive exposure to inorganic fluorides has been shown to increase bone density.	

Consult MSDS for materials being cut to determine any additional health hazard information.

## Personal Protection and Exposure Controls

Ventilation - Use with adequate mechanical ventilation. See OSHA 29 CFR 1910.94 (Ventilation) and 29 CFR 1910.1000 (Air Contaminants).

Respirators - Respirators are required when airborne contaminant levels exceed the TLVs or PELs for the wheel components or the material being cut. Consult MSDS for materials being cut to determine any additional precautions or requirements. See also 29 CFR 1910.134

Eye Protection - Always wear safety glasses or some other type of eye protection when cutting.

Noise - Use hearing protection devices. Use of abrasive wheels may create elevated sound levels. Prolonged exposure to loud noises can result in hearing loss, see OSHA 29 CFR 1910.95.

Other Protection - See OSHA 29 CFR 1910 and ANSI B7.1 for additional safety information.  
Exercise good personal hygiene.

## Physical and Reactivity Data

Appearance - Typical light brown to black solid. Solubility in Water - Generally insoluble in water.  
Density - 1.8 - 3.0 Odor - None as supplied, typical phenolic odor in use.  
Reactivity- Stable, Hazardous polymerization will not occur.  
Decomposition - In use, dust and decomposing odors may be generated. Generally, dust/fumes from the material being cut will be greater than for the wheel being used. Coolants may produce other decomposition products. Consult MSDS for materials being cut and coolant being used.  
Conditions to be avoided - None found.

## Fire Fighting

NFPA Hazard Rating - Health = 1; Flammability = 0; Reactivity = 0

Extinguishing Media - Water, foam, CO2

Fumes from burning cured phenolic resin may cause eye, nose and throat irritation, wear breathing apparatus fighting fires in confined spaces.

## Handling and Storage - See Also ANSI B7.1

Always handle and store wheels in a careful manner.  
Always visually inspect all wheels before mounting.  
Always verify the machine operating speed is not higher than the maximum operating speed of the wheel.  
Always check mounting flanges for flatness, equal and correct diameter and relief..  
Always use mounting blotters for dry cutting wheels.  
Always be sure work rest and part clamps are properly adjusted.  
Always use a safety guard covering at least one-half of the cutting wheel.  
Always allow newly mounted wheels to run at operating speed for at least 1 minute before cutting.  
Always turn off coolant before stopping wheel to avoid out of balance wheels.

## Disposal

Spills - Pick up wheel materials following normal procedures for nuisance dusts.

Disposal - Use standard landfill methods consistent with Federal, State and local laws.

Products with listed flourides may have slightly soluble flouride swarf.

Chemical Fate - Resin bonded wheels have similar degradation rates as other phenolic plastics.

## Disclaimer

The information and recommendations set forth herein are taken from sources believed to be accurate as of the publication date; however the company makes no warranty with respect to the accuracy of the information or the suitability of the recommendations, and assumes no liability to any user thereof.

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