

MATERIAL AND SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Trade Name: Resin Bonded Abrasives Products

Application:

Supplier: Hummer Abrasives
3039 169th Place
Hammond, Indiana 46321

Telephone: 1-800-693-8862

Emergency Telephone:

2. COMPOSITION, INFORMATION ON INGREDIENTS

Composition as per 29 cfr 1910.1200(g)(4)

Chemical Name:	Percentage	Cas Number	OSHA Pel Permissible Exposure Limit	ACGIH TLV Threshold Limit Value
Aluminum Oxide*	0-95	1344-28-1	15 mg/M ³	10 mg/M ³
Silicon Carbide	0-95	409-21-2	15 mg/M ³	10 mg/M ³
Zirconium Oxide	0-80	1314-23-4	15 mg/m ³ (Zr)	5 mg/M ³
Phenol Formaldehyde Resin(cured)**	3-15	9003-35-4	None Found	N/A
Fiberglass****	0-10	65997-17-3	15 mg/M ³	10 mg/M ³
Fluorides**	0-15	Various	2.5 mg/M ³ (F)	2.5 mg/M ³ (F)
Calcium Oxide	1-10	1305-78-8	5 mg/M ³	2 mg/M ³
Sulphates & Sulphides	1-15	Various	10 mg/M ³ Tot.Dust	10 mg/M ³ (dust)
Calcium Compounds	1-12	Various	10 mg/M ³ Tot.Dust	10 mg/M ³ (dust)

*Aluminum Oxide is at least 96% pure, usually containing other metallic oxides as impurities.

**Free phenol [108-95-2] (PEK & TLV:5ppm) and free Formaldehyde [50-00-0] PEL:0.75ppm, TLV: 1ppm) maybe present in trace amounts.

***Maximum Fluoride Content, as F is 9.05%. Fluoride may be released in trace amounts under normal use.

****Present only in fiberglass reinforced wheels.

^Substance is a compound +/- or mixture.

3. HAZARDS IDENTIFICATION

Inhalation Acute Exposure Effects: Dust may be slightly irritating to eyes and respiratory tract at high concentrations.

Eye Contact Acute Exposure Effects: Dust may irritate eyes.

Skin Contact Acute Exposure Effects: Some may experience skin irritation from dust.

Ingestion Acute Exposure Effects: No known adverse effects but ingestion should be avoided.

Medical Conditions Generally Recognized as Being Aggravated by Exposure: May aggravate existing respiratory problems.

Dust generated from the intended use of this product may contain trace amounts of inorganic fluorides. Excessive exposure to fluorides has been shown in NOSH studies to increase bone density. Dust generated from the intended use of this product may contain trace levels of phenolic resins which may under excessive exposure cause skin sensitization and airway obstruction.

4. FIRST AID MEASURES

Inhalation: Remove to fresh air. If breathing has stopped, give artificial respiration. get medical attention immediately.

Eye Contact: Wash with large amounts of water. Obtain first aid and medical assistance, if needed.

Skin Contact: Wash affected areas with soap and water, if irritation persists, obtain medical assistance.

Ingestion: Obtain medical assistance and call poison control center.

5. FIRE FIGHTING MEASURES

Fire Fighting Procedures: N/A

Hazardous Products Combustion: None

Fire and Explosion Data:

Flashpoint: Not Applicable

Flammable Limits: LEL: Not Applicable

UEL: Not Applicable

Extinguishing Media: Water, foam or CO2

Special Fire Fighting Procedures: Toxic fumes are evolved on burning.

Unusual Fire and Explosion Hazards: Fumes from burning cured Phenol/Formaldehyde resin contain trace formaldehyde which can cause eye, nose and throat irritation.

6. ACCIDENTAL RELEASE MEASURES

Clean-Up: Follow normal clean up procedures.

7. HANDLING AND STORAGE

Spills or Leaks: Collect and pick up materials following normal precautions for inert nuisance dusts.
Disposal: Standard landfill methods consistent with applicable federal, state and local laws.
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.
ANSI B7.1

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Ventilation Protection: Handle with adequate ventilation. See OSHA 29 CFR 1910.94 (ventilation) and 29 CFR 1910.1000
(Air Contaminants)
Respiratory: Respirators are required when airborne contaminant levels exceed the TLV (s).
Eye Protection: Always WEAR SAFETY GLASSES or some type of eye protection when grinding.
Other Protection: Exercise good personal hygiene. Hearing protection may be required.
(See OSHA 29 CFR 1910-95 and other applicable regulations)

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Physical State: Porous solid.
Color: Light or medium grey, brown or black colored.
Odor: No detectable odor.
Solubility: In water, insoluble to sight.
Boiling: None.
Melt/Freeze Point: None.
Density/Specific Gravity: 1.8 to 4.0
Vapor Density: None.
Evaporation Rate: None.
pH-Value, conc solution:

10. STABILITY AND REACTIVITY

Incompatibilities:	Avoid acids of all types with a pH<4.0.
Decomposition Products:	During use, dust and decomposing organic fumes are generated which may contain trace amounts of phenol, formaldehyde and fluorides, if present. In most cases, the material removed from the work piece will be significantly greater than the grinding wheel components. Coolants or other surface residues may produce decomposition products.
Conditions to be avoided:	No applicable information found.

11. TOXICOLOGICAL INFORMATION

Toxicological Information:	
Sensitization:	
Health Warnings:	
Carcinogenicity:	Fiberglass contained in wheels have fiber diameters > 10 um, therefore, considered non-respiral.
Reproduction/Teratogenicity:	
Route of Entry:	
Inhalation Chronic Exposure Effects:	Chronic, may affect breathing.
LD50/LC50:	Values are not appropriate or available.

12. ECOLOGICAL INFORMATION

Chemical Fate:	Resin Bonded materials may demonstrate similar degradation rate as phenolic plastics.
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13. DISPOSAL CONSIDERATIONS

Disposal Methods: Use standard landfill methods consistent with applicable Federal, State, Provincial and local laws. Products with listed fluorides may have slightly soluble fluoride swarf.

14. TRANSPORT INFORMATION

Proper shipping description:

ROAD TRANSPORT:

UN NO.:

U.S. DOT Hazard Label:

U.S. DOT Class: This product is not hazardous as defined by the Department of Transportation. (USA)

CANADIAN TRANSPORT: This product in "Not Regulated" under the Transportation of Dangerous Good Act. (CAN)

SEA TRANSPORT:

UN Sea No.:

IMDG Class:

IMDG Page No.:

Mfag Table No.:

Information on Sea Transport:

AIR TRANSPORT:

UN No.:

ICAO Class:

Information on Air Transport:

15. REGULATORY INFORMATION

Exposure Limits/Regulatory Information:

CA Prop 65:

This product contains chemicals, and formaldehyde, known to the State of California to cause cancer.

TSCA: Section 8 (b) – Inventory Status:

All components of this product are registered under the regulation of the Toxic Substance Control Act.

Domestic Substance List:

All components of this product are found on the Domestic Substance List.

WHMIS Classification:

D2B

16. OTHER INFORMATION

Additional Information/Comments: The information contained herein is based on data considered to be accurate. While the information is believed to be reliable, no warranty is expressed or implied regarding the accuracy of this data or results to be obtained from the use therefore. Since the use of this information and the conditions and use of this product are controlled by the user, it is the user's obligation to determine the conditions of the safe use of this product.

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