

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: **Bonded Abrasive Product**

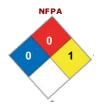
MSDS Manufacturer Number: BA_B_Resin

Manufacturer Name: Saint-Gobain Abrasives, Inc. 1 New Bond Street Worcester, MA 01615 Address:

General Phone Number: 508-795-5000 Emergency Phone Number: 508-795-5000

Website: www.Nortonabrasives.com December 15, 2010

MSDS Creation Date: MSDS Revision Date: July 01, 2013



HMIS	
Health Hazard	1
Fire Hazard	0
Reactivity	1
Personal Protection	х

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS#	CAS# Ingredient Percent	
Calcium carbonate	1317-65-3	1 - 5 by weight	215-279-6
Zirconium dioxide	1314-23-4	10 - 30 by weight	215-227-2
Phenol formaldehyde polymer	9003-35-4	10 - 30 by weight	
Fiberglass	65997-17-3	1 - 5 by weight	266-046-0
Sulfates/Sulfides	No Data	5 - 10 by weight	
Aluminum Oxide, Non-fibrous	1344-28-1	60 - 100 by weight	215-691-6
Notes:	Actual grinding tests with wheels	known to contain Crystalline Silica did	not produce any detectable

SECTION 3: HAZARDS IDENTIFICATION

Potential Health Effects:

Inhalation:

Eve: Dust may cause slight irritation.

Skin: Dust from this product may cause temporary mechanical irritation.

 $Dusts \ from \ this \ product \ may \ cause \ mechanical \ irritation \ of \ the \ nose, \ throat \ and \ respiratory \ tract.$ Ingestion: Ingestion of this product is unlikely. However, ingestion of product may produce gastrointestinal

Chronic Health Effects: Chronic health effects are not expected as long as good hygiene and proper safety precautions are

practiced.

Phenol formaldehyde polymer

Dust generated from intended use may contain trace amounts of phenol and formaldehyde which under excessive exposure may cause skin sensitization and airway obstruction. Chronic Health Effects:

Fiberglass

Inhalation: Fiberglass contained in wheels have fiber diameters greater than 10 um, therefore considered non-

respirable.

SECTION 4: FIRST AID MEASURES

Eve Contact: Immediately flush eyes with plenty of water for at least 15 to 20 minutes. Ensure adequate flushing of

the eyes by separating the eyelids with fingers

Get medical attention, if irritation or symptoms of overexposure persists.

Skin Contact: Immediately wash skin with soap and plenty of water. Get medical attention if irritation develops or persists

Inhalation: If dust from cutting or drilling is inhaled, remove the affected person to fresh air. If symptoms persist, get medical attention.

Ingestion: Accidental ingestion of this material is unlikely. If this does occur, watch person for several days to

make sure intestinal blockage does not occur. If symptoms persist, call a physician.

Note to Physicians: No information available.

SECTION 5: FIRE FIGHTING MEASURES

Flammable Properties: Non Flammable Flash Point: Does not apply. Auto Ignition Temperature: Not determined. Lower Flammable/Explosive Limit: Not available. Upper Flammable/Explosive Limit: Not available.

Extinguishing Media: Use any extinguishing media appropriate for the surrounding fires.

Unsuitable Media:

Protective Equipment: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or

equivalent) and full protective gear.

NFPA Ratings:

NFPA Other:

NFPA Health: 0 NFPA Flammability: 0 NFPA Reactivity: 1

SECTION 6: ACCIDENTAL RELEASE MEASURES

Methods for containment: Containment of this material should not be necessary.

Shovel or sweep up for re-use or disposal. Avoid creating dusty conditions. Evaluate residue to determine if it is a hazardous waste by characteristic. Methods for cleanup:

Dispose of in accordance with Local, State, Federal and Provincial regulations.

SECTION 7: HANDLING and STORAGE

Handling:

Always HANDLE AND STORE wheels in a CAREFUL manner.
Always VISUALLY INSPECT all wheels before mounting.
Always CHECK MACHINE SPEED against the established maximum safe operating speed MARKED ON THE WHEEL.

Always CHECK MOUNTING FLANGES for equal and correct diameter. Always USE MOUNTING BLOTTERS.

Always be sure WORK REST is properly adjusted.

Always USE A SAFETY GUARD covering at least one-half of the grinding wheel.
Always allow NEWLY MOUNTED WHEELS to run at operating speed, with guard in place, for at least one

minute before grinding.

Always TURN OFF COOLANT before stopping wheel to avoid creating an out-of-balance wheel.

Storage: No special storage conditions required.

Hygiene Practices: Wear suitable gloves and eye/face protection.

SECTION 8 : EXPOSURE CONTROLS, PERSONAL PROTECTION - EXPOSURE GUIDELINES

General dilution ventilation and/or local exhaust ventilation should be provided as necessary to Engineering Controls:

maintain exposures below occupational exposure limits

Eye/Face Protection: Always WEAR SAFETY GLASSES or some type of eye protection when grinding.

Skin Protection Description: Protective gloves

Long sleeved shirt and long pants.

When workers are facing airborne particulate/dust concentrations above the exposure limit they must use appropriate certified respirators. Respiratory Protection:

A properly fitted NIOSH approved disposable N 95 type dust respirator or better is recommended.

Other Protective: Use of this product may create elevated sound levels. Hearing protection should be worn where

required (see OSHA 29 CFR 1910.134 and other applicable regulations).

General Hygiene Considerations: Handle in accordance with good industrial hygiene and safety practice.

Remove and wash contaminated clothing before re-use. Avoid getting dust into boots and gloves through wrist bands and pant tucks.

EXPOSURE GUIDELINES

Ingredient	Guideline OSHA	Guideline A CGIH	Quebec Canada	Ontario Canada	Alberta Canada
Calcium carbonate			VEMP-TWA: 10 mg/m3 Total particulate/dust (T)		OEL-TWA: 10 mg/m3
Zirconium dioxide		TLV-TWA: 10 mg/m3 as zirconium compounds			
Fiberglass	PEL-TWA: 1 f/cc as Continuous filament glass	TLV-TWA: 1 f/cc as Continuous filament glass TLV-TWA: 5 mg/m3 as Continuous filament glass			
Aluminum Oxide, Non- fibrous	PEL-TWA: 5 mg/m3 Respirable fraction (R) PEL-TWA: 15 mg/m3 Total particulate/dust (T)	TLV-TWA: 10 mg/m3	VEMP-TWA: 10 mg/m3 Total particulate/dust (T)	OEL-TWAEV: 10 mg/m3 Total particulate/dust (T)	OEL-TWA: 10 mg/m3
Ingredient	Mexico	British Columbia Canada			
Calcium carbonate		OEL-TWA: 10 mg/m3 Total particulate/dust (T) OEL-TWA: 3 mg/m3 Respirable fraction (R) OEL-STEL: 20 mg/m3 Total particulate/dust (T)			
Aluminum Oxide, Non- fibrous	MPE-PPT: 0.1 mg/m3 Respirable fraction (R)	OEL-TWA: 3 mg/m3 Respirable fraction (R) OEL-TWA: 10 mg/m3 OEL-TWA: 10 mg/m3 Total particulate/dust (T) OEL-STEL: 20 mg/m3 Total particulate/dust (T)			

SECTION 9: PHYSICAL and CHEMICAL PROPERTIES

Physical State Appearance: Solid article. Odor: Odorless. Flash Point: Does not apply. Auto Ignition Temperature: Not determined.

SECTION 10: STABILITY and REACTIVITY

Chemical Stability: Stable under normal conditions.

Hazardous Polymerization: Hazardous polymerization does not occur.

In use, dust and decomposing odors may be generated. In most cases, the material removed from the workplace will be significantly greater than the grinding wheel components. Coolants may produce Special Decomposition Products:

other decomposition products.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity: This product has not been tested for its toxicity.

Carcinogens:						
	ACGIH	NIOSH	OSHA	IARC	NTP	
Aluminum Oxide, Non-fibrous	A4 Not Classifiable as a Human	No Data	No Data	No Data	No Data	

<u>Calcium carbonate</u>:

RTECS Number: EV9580000

Zirconium dioxide:

RTECS Number: ZH8800000

Phenol formaldehyde polymer:

RTECS Number: SM8542500

Administration onto the skin - Rat LD50 : >2 gm/kg [Details of toxic effects not reported other than lethal dose value] (RTECS) Skin:

Oral - Rat LD50 : >5 gm/kg [Details of toxic effects not reported other than lethal dose value] (RTECS) Ingestion:

Fiberglass:

RTECS Number: LK3651000

<u>Aluminum Oxide, Non-fibrous</u>:

RTECS Number: BD1200000

Inhalation: Inhalation - Rat TCLo: 200 mg/m3/5H/28W (Intermittent) [Lungs, Thorax, or Respiration - Structural

or functional change in trachea or bronchi; Lungs, Thorax, or Respiration - Chronic pulmonary edema; Related to Chronic Data - death] (RTECS)

SECTION 12: ECOLOGICAL INFORMATION

Biodegradation: Resin bonded materials demonstrate similar degradation rates as Phenolic plastics.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal: Use standard landfill methods consistent with applicable Federal, State, Provincial and local laws.

SECTION 14: TRANSPORT INFORMATION

DOT Shipping Name: Not regulated as hazardous material for transportation. DOT UN Number: Not regulated as hazardous material for transportation.

IATA Shipping Name: Not regulated as hazardous material for transportation.

Canadian Shipping Name: This product is Not Regulated under the Transportation of Dangerous Goods Act. (CAN).

SECTION 15: REGULATORY INFORMATION

<u>Calcium carbonate</u>:

TSCA Inventory Status: Listed Massachusetts: Listed Pennsylvania: Listed Canada NDSL: Listed 215-279-6 FC Number:

Zirconium dioxide:

TSCA Inventory Status: Listed Massachusetts: Listed Canada DSL: Listed EC Number: 215-227-2

Phenol formaldehyde polymer:

TSCA Inventory Status: Listed Canada DSL: Listed

Fiberglass:

TSCA Inventory Status: Listed Canada DSL: Listed EC Number: 266-046-0

Aluminum Oxide, Non-fibrous:

TSCA Inventory Status: Listed EINECS Number: 262-373-8

Listed: NJ Hazardous List: Substance Number: 2891 New Jersev:

Massachusetts: Listed Pennsylvania: Listed Listed Minnesota: No Data Rhode Island: Listed Canada DSL: Listed

Canada IDL: Identified under the Canadian Hazardous Products Act Ingredient Disclosure List: 0.1%.50(1298)

EC Number: 215-691-6

SECTION 16: ADDITIONAL INFORMATION

Bonded Abrasive Product

Revision: 07/01/2013

MSDS Creation Date: December 15, 2010
MSDS Revision Date: July 01, 2013

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