

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: **Bonded Abrasive Product** MSDS Manufacturer Number: 983570_BA_B_Resin Manufacturer Name: Saint-Gobain Abrasives, Inc. 1 New Bond Street Address:

Worcester, MA 01615 General Phone Number: 508-795-5000 Emergency Phone Number: 508-795-5000

Website: www.Nortonabrasives.com MSDS Creation Date: November 30, 2009 MSDS Revision Date: July 01, 2013



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

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS#	Ingredient Percent	EC Num.	
Phenol formaldehyde polymer	9003-35-4	5.0 - 10 by weight		
Zirconium dioxide	1314-23-4	10.0 - 30 by weight	215-227-2	
Calcium carbonate	1317-65-3	1.0 - 5 by weight	215-279-6	
Sulfates/Sulfides	No Data	5.0 - 10 by weight		
Silicon carbide	409-21-2	30.0 - 60 by weight	206-991-8	
Aluminum Oxide, Non-fibrous	1344-28-1	10.0 - 30 by weight	215-691-6	
Notes:	Actual grinding tests with wheels known to contain Crystalline Silica did not produce any detectable amount of respirable free Crystalline Silica			

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:

SECTION 4: FIRST AID MEASURES

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. Eve Contact:

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

If dust from cutting or drilling is inhaled, remove the affected person to fresh air. If symptoms persist,

Inhalation: get medical attention.

UPC Number: 66253344098 983570 BA B Resin

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: None.

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

equivalent) and full protective gear.

NFPA Ratings:

0 NFPA Health: NFPA Flammability: 0 NFPA Reactivity:

NFPA Other:

Storage:

SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Methods for cleanup:

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. 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.

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.

Respiratory Protection: When workers are facing airborne particulate/dust concentrations above the exposure limit they must

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

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). Other Protective:

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

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 ACGIH	Ouebec Canada	Ontario Canada	Alberta Canada
Zirconium dioxide		TLV-TWA: 10 mg/m3 as zirconium compounds	•		
Calcium carbonate			VEMP-TWA: 10 mg/m3 Total particulate/dust (T)		OEL-TWA: 10 mg/m3

Silicon carbide	PEL-TWA: 15 mg/m3 Total particulate/dust (T) PEL-TWA: 5 mg/m3 Respirable fraction (R)	TLV-TWA: 10 mg/m3 Inhalable fraction (I) TLV-TWA: 3 mg/m3 Respirable fraction (R) TLV-TWA: 0.1 f/cc Respirable fraction (R)	VEMP-TWA: 10 mg/m3 Total particulate/dust (T)	OEL-TWAEV: 10 mg/m3 Total particulate/dust (T) OEL-TWAEV: 3 mg/m3 Respirable fraction (R) OEL-TWAEV: 10 mg/m3 Inhalable fraction (I) OEL-TWAEV: 0.1 f/cc Respirable fraction (R)	OEL-TWA: 10 mg/m3
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)			
Silicon carbide	LMPE-PPT: 10 mg/m3 LMPE-CT: 20 mg/m3	OEL-TWA: 10 mg/m3 Inhalable fraction (I) OEL-TWA: 3 mg/m3 Respirable fraction (R) OEL-TWA: 0.1 f/cc Respirable fraction (R)			
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 other decomposition products. Special Decomposition Products:

SECTION 11: TOXICOLOGICAL INFORMATION

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

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

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:

Zirconium dioxide:

ZH8800000 RTECS Number:

<u>Calcium carbonate</u>:

RTECS Number: EV9580000

Silicon carbide:

RTECS Number: VW0450000 Inhalation: No Data

Aluminum Oxide, Non-fibrous:

RTECS Number: BD1200000

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) Inhalation:

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

Phenol formaldehyde polymer:

TSCA Inventory Status: Listed Canada DSL: Listed

Zirconium dioxide:

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

Calcium carbonate:

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

Silicon carbide:

TSCA Inventory Status: Listed Massachusetts: Listed Pennsylvania: Listed Canada DSL: Listed FC Number: 206-991-8

Aluminum Oxide, Non-fibrous:

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

New Jersey: Listed: NJ Hazardous List; Substance Number: 2891

Massachusetts: Listed Pennsylvania: Listed Minnesota: Illinois: 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

MSDS Creation Date: November 30, 2009
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