



SAFETY DATA SHEET

SECTION 1 : IDENTIFICATION

Product identifier used on the label:

Product Name: Abrasive Product

Other means of identification:

Recommended use of the chemical and restrictions on use:

Chemical manufacturer address and telephone number:

Manufacturer Name: Saint-Gobain Abrasives, Inc.
Address: 1 New Bond Street
Worcester, MA 01615
Website: www.Nortonabrasives.com
General Phone Number: 508-795-5000

Emergency phone number:

Emergency Phone Number: 508-795-5000

SECTION 2 : HAZARD(S) IDENTIFICATION

Classification of the chemical in accordance with CFR 1910.1200(d)(f):

Hazards not otherwise classified that have been identified during the classification process:

Potential Health Effects:

Eye: Dust may cause slight irritation.
Skin: Dust from this product may cause temporary mechanical irritation.
Inhalation: 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 irritation and disturbances.
Chronic Health Effects: Chronic health effects are not expected as long as good hygiene and proper safety precautions are practiced.

Fiberglass

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

Phenol formaldehyde polymer

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

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures:

Chemical Name	CAS#	Ingredient Percent	EC Num.
Fiberglass	65997-17-3	1 - 5 by weight	266-046-0
Calcium carbonate	1317-65-3	5 - 10 by weight	215-279-6
Phenol formaldehyde polymer	9003-35-4	10 - 30 by weight	
Zirconium dioxide	1314-23-4	10 - 30 by weight	215-227-2

Crystalline Silica, Quartz	14808-60-7	0.1 - 1 by weight	238-878-4
Inorganic fluorides	Not Applicable	5 - 10 by weight	
Aluminum Oxide, Non-fibrous	1344-28-1	60 - 100 by weight	215-691-6
Titanium dioxide	13463-67-7	0.1 - 1 by weight	236-675-5

SECTION 4 : FIRST AID MEASURES

Description of necessary measures:

Eye 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.

Indication of immediate medical attention and special treatment needed:

Note to Physicians: No information available.

SECTION 5 : FIRE FIGHTING MEASURES

Suitable and unsuitable extinguishing media:

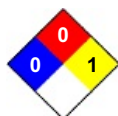
Suitable Extinguishing Media:	Use any extinguishing media appropriate for the surrounding fires.
Unsuitable extinguishing media:	None.

Special protective equipment and precautions for fire-fighters:

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



SECTION 6 : ACCIDENTAL RELEASE MEASURES

Methods and materials for containment and cleaning up:

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

Precautions for safe handling:

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.

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

Conditions for safe storage, including any incompatibilities:

Storage: No special storage conditions required.

SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

EXPOSURE GUIDELINES:

Ingredient	Guideline OSHA	Guideline NIOSH	Guideline ACGIH	Quebec Canada	Ontario Canada
Fiberglass	PEL-TWA: 1 f/cc as Continuous filament glass		TLV-TWA: 1 f/cc as Continuous filament glass TLV-TWA: 5 mg/m ³ as Continuous filament glass		
Calcium carbonate				VEMP-TWA: 10 mg/m ³ Total particulate/dust (T)	
Zirconium dioxide			TLV-TWA: 10 mg/m ³ as zirconium compounds		
Crystalline Silica, Quartz			TLV-TWA: 0.025 mg/m ³ Respirable fraction (R)	VEMP-TWA: 0.1 mg/m ³ Respirable fraction (R)	OEL-TWAEV: 0.05 mg/m ³ Respirable fraction (R)
Inorganic fluorides	PEL-TWA 2.5 mg/m ³	REL-TWA 2.5 mg/m ³	TLV-TWA 2.5 mg/m ³		
Aluminum Oxide, Non-fibrous	PEL-TWA: 5 mg/m ³ Respirable fraction (R) PEL-TWA: 15 mg/m ³ Total particulate/dust (T)		TLV-TWA: 10 mg/m ³	VEMP-TWA: 10 mg/m ³ Total particulate/dust (T)	OEL-TWAEV: 10 mg/m ³ Total particulate/dust (T)
Titanium dioxide			TLV-TWA: 10 mg/m ³	VEMP-TWA: 10 mg/m ³ Total particulate/dust (T)	OEL-TWAEV: 10 mg/m ³ Total particulate/dust (T)
Ingredient	Alberta Canada	Mexico	British Columbia Canada		
Calcium carbonate	OEL-TWA: 10 mg/m ³		OEL-TWA: 10 mg/m ³ Total particulate/dust (T) OEL-TWA: 3 mg/m ³ Respirable fraction (R) OEL-STEL: 20 mg/m ³ Total particulate/dust (T)		
Crystalline Silica, Quartz	OEL-TWA: 0.1 mg/m ³ Respirable fraction (R)	LMPE-PPT: 0.1 mg/m ³ Respirable fraction (R)	OEL-TWA: 0.025 mg/m ³ Respirable fraction (R)		
Aluminum Oxide, Non-fibrous	OEL-TWA: 10 mg/m ³	MPE-PPT: 0.1 mg/m ³ Respirable fraction (R)	OEL-TWA: 3 mg/m ³ Respirable fraction (R) OEL-TWA: 10 mg/m ³ OEL-TWA: 10 mg/m ³ Total particulate/dust (T) OEL-STEL: 20 mg/m ³ Total particulate/dust (T)		
Titanium dioxide	OEL-TWA: 10 mg/m ³ Total particulate/dust (T)	MPE-PPT: 0.1 mg/m ³ Respirable fraction (R)	OEL-TWA: 10 mg/m ³ Total particulate/dust (T) OEL-TWA: 3 mg/m ³ Respirable fraction (R)		

Appropriate engineering controls:

Engineering Controls: General dilution ventilation and/or local exhaust ventilation should be provided as necessary to maintain exposures below occupational exposure limits.

Individual protection measures:

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.

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.

SECTION 9 : PHYSICAL and CHEMICAL PROPERTIES

PHYSICAL AND CHEMICAL PROPERTIES:

Physical State Appearance: Solid article.
Odor: Odorless.
Flash Point: Does not apply.
Lower Flammable/Explosive Limit: Not available.
Upper Flammable/Explosive Limit: Not available.
Auto Ignition Temperature: Not determined.

SECTION 10 : STABILITY and REACTIVITY

Chemical Stability:

Chemical Stability: Stable under normal conditions.

Possibility of hazardous reactions:

Hazardous Polymerization: Hazardous polymerization does not occur.

Hazardous Decomposition Products:

Special Decomposition Products: 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.

SECTION 11 : TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION:

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

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

Fiberglass :

RTECS Number: LK3651000

Calcium carbonate :

RTECS Number: EV9580000

Phenol formaldehyde polymer :

RTECS Number: SM8542500

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

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

Zirconium dioxide :

RTECS Number: ZH8800000

Crystalline Silica, Quartz :

RTECS Number: VV7330000

Aluminum Oxide, Non-fibrous :

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)

Titanium dioxide :

RTECS Number: XR2275000

Skin: Skin - Human Standard Draize test. : 300 ug/3D-I - [mild] (RTECS)

Inhalation: Inhalation - Rat TCLo - Lowest published toxic concentration: 1 mg/kg - [Lungs, Thorax, or Respiration - Other changes Biochemical - Metabolism (Intermediary) - Effect on inflammation or mediation of inflammation] (RTECS)

Ingestion: Oral - Rodent rat TDLo - Lowest published toxic dose: 60 gm/kg - [Gastrointestinal - Hypermotility, diarrhea Gastrointestinal - Other changes] (RTECS)

SECTION 12 : ECOLOGICAL INFORMATION

Persistence and degradability:

Biodegradation: Vitrified products do not appreciably decay.

SECTION 13 : DISPOSAL CONSIDERATIONS

Description of waste:

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

Safety, health and environmental regulations specific for the product:

Fiberglass :

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

Calcium carbonate :

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

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

Crystalline Silica, Quartz :

TSCA Inventory Status: Listed
 Massachusetts: Listed
 Pennsylvania: Listed
 Canada DSL: Listed
 Canada IDL: Identified under the Canadian Hazardous Products Act Ingredient Disclosure List: 0.1%.1406(1491)
 EC Number: 238-878-4

Aluminum Oxide, Non-fibrous :

TSCA Inventory Status: Listed
 EINECS Number: 262-373-8
 Japan ENCS: (1) -23
 New Jersey: Listed: NJ Hazardous List; Substance Number: 2891
 Massachusetts: Listed
 Pennsylvania: Listed
 Minnesota: Listed
 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
 South Korea KECL: KE-01012
 Australia AICS: Listed

Titanium dioxide :

TSCA Inventory Status: Listed
 Japan ENCS: (1)-558
 New Jersey: No Data
 Massachusetts: Listed
 Pennsylvania: Listed
 Minnesota: Listed
 Illinois: No Data

Rhode Island: Listed
Canada DSL: Listed
EC Number: 236-675-5
South Korea KECL: KE-33900
Australia AICS: Listed

SECTION 16 : ADDITIONAL INFORMATION

HMIS Ratings:

HMIS Health Hazard: 1
HMIS Fire Hazard: 0
HMIS Reactivity: 1
HMIS Personal Protection: X

Health Hazard	1
Fire Hazard	0
Reactivity	1
Personal Protection	X

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