

SAFETY DATA SHEET

SECTION 1: IDENTIFICATION

Product identifier used on the label:

Product Name: **Abrasive Product**

 $\underline{\hbox{Other means of identification:}}$

 $\underline{\textit{Recommended use of the chemical and restrictions on use:}}\\$

 $\underline{\hbox{Chemical manufacturer address and telephone number:}}$

Manufacturer Name: Saint-Gobain Abrasives, Inc.

Address: 1 New Bond Street Worcester, MA 01615

www.Nortonabrasives.com

508-795-5000 General Phone Number:

Emergency phone number:

Website:

Emergency Phone Number: 508-795-5000

SECTION 2: HAZARD(S) IDENTIFICATION

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

 $\underline{\text{Hazards not otherwise classified that have been identified during the classification process:} \\$

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-

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
Inorganic fluorides	Not Applicable	1 - 5 by weight	
Calcium carbonate	1317-65-3	1 - 5 by weight	215-279-6
Phenol formaldehyde polymer	9003-35-4	10 - 30 by weight	

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Sulfates/Sulfides No Data 1 - 5 by weight

215-691-6 Aluminum Oxide, Non-fibrous 1344-28-1 60 - 100 by weight

Titanium dioxide 13463-67-7 1 - 5 bv weight 236-675-5

SECTION 4: FIRST AID MEASURES

<u>Description of necessary measures:</u>

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. Eye Contact:

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

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

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

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

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:

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:

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Protective Equipment:

NFPA Ratings:

0 NEPA Health: NFPA Flammability: 0 NFPA Reactivity:

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/m3 as Continuous filament glass		
Inorganic fluorides	PEL-TWA 2.5 mg/m3	REL-TWA 2.5 mg/m3	TLV-TWA 2.5 mg/m3		
Calcium carbonate				VEMP-TWA: 10 mg/m3 Total particulate/dust (T)	
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)
Titanium dioxide			TLV-TWA: 10 mg/m3	VEMP-TWA: 10 mg/m3 Total particulate/dust (T)	OEL-TWAEV: 10 mg/m3 Total particulate/dust (T)
Ingredient	Alberta Canada	Mexico	British Columbia Canada		
Calcium carbonate	OEL-TWA: 10 mg/m3		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	OEL-TWA: 10 mg/m3	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)		
Titanium dioxide	OEL-TWA: 10 mg/m3 Total particulate/dust (T)	MPE-PPT: 0.1 mg/m3 Respirable fraction (R)	OEL-TWA: 10 mg/m3 Total particulate/dust (T) OEL-TWA: 3 mg/m3 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.

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).

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. General Hygiene Considerations:

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.

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SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION:

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

Carcinogens:						
	ACGIH	NIOSH	OSHA	IARC	NTP	MEXICO
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

<u>Calcium carbonate</u>:

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)

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

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)

<u>Titanium dioxide</u>:

RTECS Number: XR2275000

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

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

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

<u>Description of waste:</u>

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.

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

SECTION 15: REGULATORY INFORMATION

 $\underline{\textbf{Safety, health and environmental regulations specific for the product:}}$

Fiberglass:

TSCA Inventory Status: Listed

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Canada DSL: Listed
EC Number: 266-046-0

<u>Calcium carbonate</u>:

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

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

<u>Titanium dioxide</u>:

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

SDS Creation Date: August 15, 2009
SDS Revision Date: July 01, 2013

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