# SAINT-GOBAIN

#### SECTION 1 : PRODUCT AND COMPANY IDENTIFICATION

Product Name: MSDS Manufacturer Number: CA\_All Address:

General Phone Number: Emergency Phone Number: 508-795-5000 Website: MSDS Creation Date:August 15, 20MSDS Revision Date:July 01, 2013

**Coated Abrasive** Manufacturer Name: Saint-Gobain Abrasives, Inc. 1 New Bond Street Worcester, MA 01615 508-795-5000 www.Nortonabrasives.com August 15, 2009



## SECTION 2 : COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name               | CA S#      | Ingredient Percent | EC Num.   |
|-----------------------------|------------|--------------------|-----------|
| Crystalline Silica, Quartz  | 14808-60-7 | 0 - 1 by weight    | 238-878-4 |
| Fiberglass                  | 65997-17-3 | 5 - 10 by weight   | 266-046-0 |
| Zirconium dioxide           | 1314-23-4  | 30 - 60 by weight  | 215-227-2 |
| Epoxy resin                 | 25068-38-6 | 1 - 5 by weight    |           |
| Aluminum Oxide, Non-fibrous | 1344-28-1  | 30 - 60 by weight  | 215-691-6 |
| Phenol formaldehyde polymer | 9003-35-4  | 1 - 5 by weight    |           |
|                             |            |                    |           |

## SECTION 3 : HAZARDS IDENTIFICATION

| On atta al Altana a         |   |
|-----------------------------|---|
| 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.                   |
| SECTION 4 : FIRST AID MEAS  | URES  |
| 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. |
| Phenol formaldehyde polymer |   |
| Inhalation:                 | Fiberglass contained in wheels have fiber diameters greater than 10 um, therefore considered non-respirable.  |
| <u>Fiberglass</u>           |   |
| Chronic Health Effects:     | Chronic health effects are not expected as long as good hygiene and proper safety precautions are practiced.  |
| Ingestion:                  | Ingestion of this product is unlikely. However, ingestion of product may produce gastrointestinal irritation and disturbances.  |
| Inhalation:                 | Dusts from this product may cause mechanical irritation of the nose, throat and respiratory tract.  |
| Skin:                       | Dust from this product may cause temporary mechanical irritation.   |
| Eye:                        | Dust may cause slight irritation.   |
| Potential Health Effects:   |   |
|                             |   |

|                     | Get medical attention, if irritation or symptoms of overexposure persists.   |
|---------------------|--|
| Skin Contact:       | Immediately wash skin with soap and plenty of water.<br>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:                | None.  |
| 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:       | 1 |
|--------------------|---|
| NFPA Flammability: | 0 |
| NFPA Reactivity:   | 1 |
| NFPA Other:        |   |

## 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.<br>Evaluate residue to determine if it is a hazardous waste by characteristic.<br>Dispose of in accordance with Local, State, Federal and Provincial regulations. |

| SECTION 7 : HANDLING and STORAGE |   |  |  |
|----------------------------------|---|--|--|
| Handling:                        | Handle with adequate ventilation for nuisance dust. |  |  |
| Storage:                         | No special storage conditions required.             |  |  |
| Hygiene Practices:               | Wear suitable gloves and eye/face protection.       |  |  |

# SECTION 8 : EXPOSURE CONTROLS, PERSONAL PROTECTION - EXPOSURE GUIDELINES

| Engineering Controls:           | General dilution ventilation and/or local exhaust ventilation should be provided as necessary to 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.<br>Long sleeved shirt and long pants.   |
| Respiratory Protection:         | When workers are facing airborne particulate/dust concentrations above the exposure limit they must<br>use appropriate certified respirators.<br>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.<br>Remove and wash contaminated clothing before re-use.<br>Avoid getting dust into boots and gloves through wrist bands and pant tucks.                                   |

#### EXPOSURE GUIDELINES

| Ingredient                    | Guideline OSHA                                     | Guideline ACGIH  | Quebec Canada                                     | Ontario Canada                                      | Alberta Canada                                |
|-------------------------------|--|--|---|---|---|
| Crystalline Silica,<br>Quartz |  | TLV-TWA: 0.025<br>mg/m3 Respirable<br>fraction (R)   | VEMP-TWA: 0.1<br>mg/m3 Respirable<br>fraction (R) | OEL-TWAEV: 0.05<br>mg/m3 Respirable<br>fraction (R) | OEL-TWA: 0.1 mg/m3<br>Respirable fraction (R) |
| Fiberglass                    | PEL-TWA: 1 f/cc as<br>Continuous filament<br>glass | TLV-TWA: 1 f/cc as<br>Continuous filament<br>glass<br>TLV-TWA: 5 mg/m3 as<br>Continuous filament |   |   |   |

|                                 |   | glass   |   |  |                   |
|---------------------------------|---|---|---|--|-------------------|
| Zirconium dioxide               |   | TLV-TWA: 10 mg/m3<br>as zirconium<br>compounds  |   |  |                   |
| Aluminum Oxide, Non-<br>fibrous | PEL-TWA: 5 mg/m3<br>Respirable fraction (R)<br>PEL-TWA: 15 mg/m3<br>Total particulate/dust<br>(T) | TLV-TWA: 10 mg/m3   | VEMP-TWA: 10<br>mg/m3 Total<br>particulate/dust (T) | OEL-TWAEV: 10<br>mg/m3 Total<br>particulate/dust (T) | OEL-TWA: 10 mg/m3 |
| Ingredient                      | Mexico  | British Columbia<br>Canada  |   |  |                   |
| Crystalline Silica,<br>Quartz   | LMPE-PPT: 0.1 mg/m3<br>Respirable fraction (R)  | OEL-TWA: 0.025<br>mg/m3 Respirable<br>fraction (R)  |   |  |                   |
| Aluminum Oxide, Non-<br>fibrous |   | OEL-TWA: 3 mg/m3<br>Respirable fraction (R)<br>OEL-TWA: 10 mg/m3<br>OEL-TWA: 10 mg/m3<br>Total particulate/dust<br>(T)<br>OEL-STEL: 20 mg/m3<br>Total particulate/dust<br>(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.  |
| Conditions to Avoid:            | Keep away from heat, sparks, or open flame.   |
| Special Decomposition Products: | In use, dust and decomposing odors may be generated. In most cases, the material removed from<br>the workplace will be significantly greater than the sandpaper components.<br>Coolants may produce other decomposition products.<br>Thermal decomposition may produce trace amounts of ammonia and formaldehyde. |

## SECTION 11 : TOXICOLOGICAL INFORMATION

Acute Toxicity:

This product has not been tested for its toxicity.

| Aluminum Oxide, Non-fibrous : |   |
|-------------------------------|---|
| ACGIH:                        | A4 Not Classifiable as a Human Carcinogen   |
| NIOSH:                        | No Data   |
| OSHA:                         | No Data   |
| IARC:                         | No Data   |
| NTP:                          | No Data   |
| Crystalline Silica, Quartz :  |   |
| RTECS Number:                 | VV7330000   |
| Fiberglass :                  |   |
| RTECS Number:                 | LK3651000   |
| Zirconium dioxide :           |   |
| RTECS Number:                 | ZH8800000   |
| Epoxy resin :                 |   |
| RTECS Number:                 | SL6475000   |
| Eye:                          | Eye - Rabbit Standard Draize test.: 100 mg [mild] (RTECS)   |
| Ingestion:                    | Oral - Rat LD50 : 11400 mg/kg [Behavioral - Somnolence (general depressed activity) Lungs, Thorax,<br>or Respiration - Dyspnea Nutritional and Gross Metabolic - Weight loss or decreased weight gain]<br>Oral - Mouse LD50 : 15600 mg/kg [Behavioral - Somnolence (general depressed activity) Lungs,<br>Thorax, or Respiration - Dyspnea Nutritional and Gross Metabolic - Weight loss or decreased weight<br>gain] (RTECS) |
| Aluminum Oxide, Non-fibrous:  |   |
| RTECS Number:                 | BD1200000   |
| Inhalation:                   | Inhalation - Rat TCLo: 200 mg/m3/5H/28W (Intermittent) [Lungs, Thorax, or Respiration - Structural<br>or functional change in trachea or bronchi; Lungs, Thorax, or Respiration - Chronic pulmonary edema;<br>Related to Chronic Data - death] (RTECS)  |
|                               |   |

Phenol formaldehyde polymer :

SM8542500

Skin:

Ingestion:

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)

## SECTION 12 : ECOLOGICAL INFORMATION

Ecotoxicity:

No ecotoxicity data was found for the product.

#### SECTION 13 : DISPOSAL CONSIDERATIONS

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

## SECTION 14 : TRANSPORT INFORMATION

| Canadian Shipping Name: | This product is Not Regulated under the Transportation of Dangerous Goods Act. (CAN). |
|-------------------------|---|
| IATA Shipping Name:     | Not regulated as hazardous material for transportation.                               |
| DOT UN Number:          | Not regulated as hazardous material for transportation.                               |
| DOT Shipping Name:      | Not regulated as hazardous material for transportation.                               |

#### SECTION 15 : REGULATORY INFORMATION

#### **Inventory Status**

|                             | Canada DSL | TSCA Inventory |  |  |
|-----------------------------|------------|----------------|--|--|
|                             |            | Status         |  |  |
| Crystalline Silica, Quartz  | Listed     | Listed         |  |  |
| Fiberglass                  | Listed     | Listed         |  |  |
| Zirconium dioxide           | Listed     | Listed         |  |  |
| Epoxy resin                 | Listed     | Listed         |  |  |
| Aluminum Oxide, Non-fibrous | Listed     | Listed         |  |  |
| Phenol formaldehyde polymer | Listed     | Listed         |  |  |

| Canada Reg. Status:           | Controlled - Class: D2B<br>This product has been classified in accordance with the hazard criteria of the Controlled Products<br>Regulations and the MSDS contains all of the information required by the Controlled Products<br>Regulations. |
|-------------------------------|---|
| Crystalline Silica, Quartz :  |   |
| Canada IDL:                   | Identified under the Canadian Hazardous Products Act Ingredient Disclosure List: 0.1%.1406(1491)  |
| Aluminum Oxide, Non-fibrous : |   |
| Canada IDL:                   | Identified under the Canadian Hazardous Products Act Ingredient Disclosure List: 0.1%.50(1298)  |
|                               |   |
| Crystalline Silica, Quartz :  |   |
| EC Number:                    | 238-878-4   |
| Fiberglass :                  |   |
| EC Number:                    | 266-046-0   |
| Zirconium dioxide :           |   |
| EC Number:                    | 215-227-2   |
| Aluminum Oxide, Non-fibrous : |   |

# EC Number:

## State Right To Know

|                             | RI     | MN     | IL      | PA     | MA     |
|-----------------------------|--------|--------|---------|--------|--------|
| Crystalline Silica, Quartz  |        |        |         | Listed | Listed |
| Zirconium dioxide           |        |        |         |        | Listed |
| Aluminum Oxide, Non-fibrous | Listed | Listed | No Data | Listed | Listed |

|                             | LΩ  |  |  |
|-----------------------------|---|--|--|
| Aluminum Oxide, Non-fibrous | Listed: NJ Hazardous<br>List; Substance<br>Number: 2891 |  |  |

215-691-6

# SECTION 16 : ADDITIONAL INFORMATION

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

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