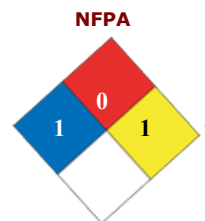




**View (M)SDS Section :**     **1**   **2**   **3**   **4**   **5**   **6**   **7**   **8**   **9**   **10**   **11**   **12**   **13**   **14**   **15**   **16**

**SECTION 1 : PRODUCT AND COMPANY IDENTIFICATION**

**Product Name:**                    **Coated Abrasive**  
**MSDS Manufacturer**  
**Number:**                            CA\_All  
**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:**   508-795-5000  
**MSDS Creation Date:**           August 15, 2009  
**MSDS Revision Date:**          July 01, 2013



**HMIS**

|                            |          |
|----------------------------|----------|
| <b>Health Hazard</b>       | <b>1</b> |
| <b>Fire Hazard</b>         | <b>0</b> |
| <b>Reactivity</b>          | <b>0</b> |
| <b>Personal Protection</b> | <b>X</b> |

**SECTION 2 : COMPOSITION/INFORMATION ON INGREDIENTS**

| <b>Chemical Name</b>                                   | <b>CAS#</b> | <b>Ingredient Percent</b>         | <b>EC Num.</b> |
|--|-------------|-----------------------------------|----------------|
| Titanium dioxide                                       | 13463-67-7  | 0 - 1 by weight                   |                |
| Urea-formaldehyde polymer                              | 9011-05-6   | 10 - 30 by weight                 |                |
| Distillates (petroleum), hydrotreated heavy paraffinic | 64742-54-7  | 1 - 5 by weight No data by Volume |                |
| Nylon  | No Data     | 5 - 10 by weight                  |                |
| Sulfates/Sulfides                                      | No Data     | 10 - 30 by weight                 |                |
| Proprietary ingredients                                | No Data     | 5 - 10 by weight                  |                |
| Aluminum Oxide, Non-fibrous                            | 1344-28-1   | 30 - 60 by weight                 | 215-691-6      |
| Paper - Processed Cellulose                            | 9004-34-6   | 10 - 30 by weight                 | 232-674-9      |

**SECTION 3 : HAZARDS IDENTIFICATION**

**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.                   |

#### Urea-formaldehyde polymer

|                         |   |
|-------------------------|---|
| Chronic Health Effects: | For products containing Urea/Formaldehyde resin, dust generated from intended use may contain trace amounts of formaldehyde which under excessive exposure may cause skin sensitization and airway obstruction. |
|-------------------------|---|

---

---

## SECTION 4 : FIRST AID 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.<br>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. 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:** 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.  
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.

### EXPOSURE GUIDELINES

| Ingredient                  | Guideline OSHA   | Guideline NIOSH  | Guideline ACGIH   | Quebec Canada                                  | Ontario Canada                                 |
|-----------------------------|--|--|---|--|--|
| Aluminum Oxide, Non-fibrous | PEL-TWA: 5 mg/m3<br>Respirable fraction (R)<br>PEL-TWA: 15 mg/m3<br>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) |
| Paper - Processed Cellulose | PEL-TWA: 15 mg/m3<br>Total particulate/dust (T)<br>PEL-TWA: 5 mg/m3<br>Respirable fraction (R) | REL-TWA: 10 mg/m3<br>Total particulate/dust (T)<br>REL-TWA: 5 mg/m3<br>Respirable fraction (R) | TLV-TWA: 10 mg/m3   | VEMP-TWA: 10 ppm<br>Total particulate/dust (T) | OEL-TWAEV: 10 mg/m3 Total particulate/dust (T) |
| Ingredient                  | Alberta Canada   | Mexico   | British Columbia Canada   |  |  |
| Aluminum Oxide, Non-fibrous | OEL-TWA: 10 mg/m3  | MPE-PPT: 0.1 mg/m3<br>Respirable fraction (R)  | 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 (T)<br>OEL-STEL: 20 mg/m3<br>Total particulate/dust (T) |  |  |
| Paper - Processed Cellulose | OEL-TWA: 10 mg/m3  | LMPE-PPT: 10 mg/m3<br>LMPE-CT: 20 mg/m3  | OEL-TWA: 3 mg/m3<br>Respirable fraction (R)<br>OEL-TWA: 10 mg/m3<br>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.   |
| 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 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                                   |

### Urea-formaldehyde polymer :

|               |  |
|---------------|--|
| RTECS Number: | YU1610000  |
| Eye:          | Eye - Rabbit Standard Draize test.: 100 uL/24H [severe] (RTECS)  |
| Skin:         | Administration onto the skin - Rabbit Standard Draize test.: 500 mg/24H [severe]<br>Administration onto the skin - Rat LD50 : >2100 mg/kg [Details of toxic effects not reported other than lethal dose value] (RTECS) |
| Inhalation:   | Inhalation - Rat LC50 : >167 mg/m <sup>3</sup> /4H [Details of toxic effects not reported other than lethal dose value] (RTECS)  |
| Ingestion:    | Oral - Rat LD50 : 8394 mg/kg [Details of toxic effects not reported other than lethal dose value]<br>Oral - Mouse LD50 : 6361 mg/kg [Details of toxic effects not reported other than lethal dose value] (RTECS)       |

### Distillates (petroleum), hydrotreated heavy paraffinic :

|               |  |
|---------------|--|
| RTECS Number: | PY8035500  |
| Skin:         | Oral - Rat LD50 : >15 gm/kg [Details of toxic effects not reported other than lethal dose value]<br>Administration onto the skin - Rabbit LD50 : >5 gm/kg [Details of toxic effects not reported other than lethal dose value] |
| Ingestion:    | Oral - Rat LD50 : >15 gm/kg [Details of toxic effects not reported other than lethal dose value]   |

### Aluminum Oxide, Non-fibrous :

RTECS Number: BD1200000

**Inhalation:** Inhalation - Rat TCLo: 200 mg/m<sup>3</sup>/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)

**Paper - Processed Cellulose :**

**RTECS Number:** FJ5691460

**Inhalation:** Inhalation - Rat LC50: >5800 mg/m<sup>3</sup>/4H [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)

---

---

**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**

---

---

**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**

---

---

**Inventory Status**

|  | <b>EINECS Number</b> | <b>Canada DSL</b> | <b>TSCA Inventory Status</b> |  |  |
|--|----------------------|-------------------|------------------------------|--|--|
| Urea-formaldehyde polymer                              |                      | Listed            | Listed                       |  |  |
| Distillates (petroleum), hydrotreated heavy paraffinic |                      | Listed            | Listed                       |  |  |
| Aluminum Oxide, Non-fibrous                            |                      | Listed            | Listed                       |  |  |
| Paper - Processed Cellulose                            | 232-674-9            | Listed            | Listed                       |  |  |

**Aluminum Oxide, Non-fibrous :**

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

**Aluminum Oxide, Non-fibrous :**

EC Number: 215-691-6

**Paper - Processed Cellulose :**

EC Number: 232-674-9

**State Right To Know**

|                             | <b>RI</b> | <b>MN</b> | <b>IL</b> | <b>PA</b> | <b>MA</b> |
|-----------------------------|-----------|-----------|-----------|-----------|-----------|
| Aluminum Oxide, Non-fibrous | Listed    | Listed    | No Data   | Listed    | Listed    |
| Paper - Processed Cellulose |           |           |           | Listed    | Listed    |

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

---

---

**SECTION 16 : ADDITIONAL INFORMATION**

---

---

MSDS Creation Date: August 15, 2009

MSDS Revision Date: July 01, 2013

Copyright© 1996-2013 Actio Corporation. All Rights Reserved.

UPC Number = 63642506195