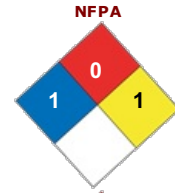


SECTION 1 : PRODUCT AND COMPANY IDENTIFICATION

Product Name: Coated Abrasive
MSDS Manufacturer Number: CA_All
Manufacturer Name: Saint-Gobain Abrasives, Inc.
Address: 1 New Bond Street
 Worcester, MA 01615
General Phone Number: 508-795-5000
Emergency Phone Number: 508-795-5000
Website: www.Nortonabrasives.com
MSDS Creation Date: August 15, 2009
MSDS Revision Date: July 01, 2013



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

SECTION 2 : COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS#	Ingredient Percent	EC Num.
Formaldehyde	50-00-0	5 - 10 by weight	200-001-8
Inorganic fluorides	Not Applicable	1 - 5 by weight	
Phenol	108-95-2	5 - 10 by weight	203-632-7
Crystalline Silica, Quartz	14808-60-7	1 - 5 by weight	238-878-4
Calcium carbonate	1317-65-3	1 - 5 by weight	215-279-6
Fiberglass	65997-17-3	30 - 60 by weight	266-046-0
Epoxy resin	25068-38-6	1 - 5 by weight	
Zirconium dioxide	1314-23-4	1 - 5 by weight	215-227-2
Heptane	142-82-5	1 - 5 by weight	
Liquefied petroleum gas	68476-85-7	1 - 5 by weight	
Aluminum Oxide, Non-fibrous	1344-28-1	10 - 30 by weight	215-691-6
Phenol formaldehyde polymer	9003-35-4	5 - 10 by weight	

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.

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 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. 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.

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
Formaldehyde	PEL-TWA: 0.75 ppm PEL-STEL: 2 ppm		TLV-Ceiling/Peak: 0.3 ppm Sensitizer.: Sen	VEMP-Ceiling/Peak: 2 ppm	OEL-CEV: 0.3 ppm
Inorganic fluorides	PEL-TWA 2.5 mg/m3	REL-TWA 2.5 mg/m3	TLV-TWA 2.5 mg/m3		
Phenol	PEL-TWA: 5 ppm Skin: Yes.		TLV-TWA: 5 ppm Skin: Yes.	VEMP-TWA: 5 ppm Skin: Yes.	
Crystalline Silica, Quartz			TLV-TWA: 0.025 mg/m3 Respirable fraction (R)	VEMP-TWA: 0.1 mg/m3 Respirable fraction (R)	OEL-TWAEV: 0.05 mg/m3 Respirable fraction (R)
Calcium carbonate				VEMP-TWA: 10 mg/m3 Total particulate/dust (T)	
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		
Zirconium dioxide			TLV-TWA: 10 mg/m3 as zirconium compounds		
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)
Ingredient	Alberta Canada	Mexico	Ireland	Finland	Czech Republic
Formaldehyde	OEL-TWA: 0.75 ppm OEL-Ceiling/Peak: 2 ppm	LMPE-CT/Pico: 2 ppm	OELV-STEL: 2 ppm	Skin: Yes.	OEL-TWA: 0.5 mg/m3 Sensitizer.: Sen
Phenol	OEL-TWA: 5 ppm Skin: Yes.	LMPE-PPT: 5 ppm LMPE-CT: 10 ppm Skin: Yes.			
Crystalline Silica, Quartz	OEL-TWA: 0.1 mg/m3 Respirable fraction (R)	LMPE-PPT: 0.1 mg/m3 Respirable fraction (R)			
Calcium carbonate	OEL-TWA: 10 mg/m3				
Aluminum Oxide, Non-fibrous	OEL-TWA: 10 mg/m3	MPE-PPT: 0.1 mg/m3 Respirable fraction (R)			
Ingredient	British Columbia Canada	Belgium	Australia		
Formaldehyde	OEL-TWA: 0.3 ppm Sensitizer.: Sen	OEL-STEL: 0.3 ppm	NES-TWA: 1 ppm NES-STEL: 2 ppm		
Phenol	OEL-TWA: 5 ppm Skin: Yes.				
Crystalline Silica, Quartz	OEL-TWA: 0.025 mg/m3 Respirable fraction (R)				
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)				
Aluminum Oxide, Non-fibrous	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.
 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. Coolants may produce other decomposition products. 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

Formaldehyde :

RTECS Number: LP8925000
Eye: Eye - Rabbit Standard Draize test.: 750 ug/24H
Eye - Rabbit Standard Draize test.: 750 ug
Eye - Rabbit Standard Draize test.: 10 mg
Eye - Rabbit Standard Draize test.: 37% (RTECS)
Skin: Administration onto the skin - Rabbit Standard Draize test.: 2 mg/24H
Administration onto the skin - Rabbit Open irritation test: 540 mg
Administration onto the skin - Rabbit Standard Draize test.: 50 mg/24H (RTECS)
Inhalation: Inhalation - Rat LC50: 250 ppm/4H [Details of toxic effects not reported other than lethal dose value]
Inhalation - Rat LC50: 815 ppm/0.5H [Details of toxic effects not reported other than lethal dose value]
Inhalation - Rat LC50: 203 mg/m3 [Peripheral Nerve and Sensation - Spastic paralysis with or without sensory change Behavioral - Convulsions or effect on seizure threshold Behavioral - Excitement]
Inhalation - Mouse LC50: 454 mg/m3/4H [Details of toxic effects not reported other than lethal dose value]
Inhalation - Mouse LC50: 505 mg/m3/2H [Behavioral - Tetany Behavioral - Coma Lungs, Thorax, or Respiration - Acute pulmonary edema]
Inhalation - Rat LC50: 578 mg/m3/2H [Behavioral - Tetany Behavioral - Coma Lungs, Thorax, or Respiration - Acute pulmonary edema]
Inhalation - Rat LC50: 250 ppm/2H [Behavioral - Tetany Behavioral - Coma Lungs, Thorax, or Respiration - Acute pulmonary edema] (RTECS)
Ingestion: Oral - Rat LD50: 100 mg/kg [Details of toxic effects not reported other than lethal dose value]
Oral - Mouse LD50: 42 mg/kg [Behavioral - Somnolence (general depressed activity) Behavioral - Convulsions or effect on seizure threshold Behavioral - Excitement]
Oral - Mouse LD50: 385 mg/kg [Details of toxic effects not reported other than lethal dose value]
Oral - Mouse LD50: 500 mg/kg [Behavioral - Tremor Liver - Other changes Kidney/Ureter/Bladder - Other changes]
Oral - Rat LD50: 500 mg/kg [Behavioral - Tremor Liver - Other changes Kidney/Ureter/Bladder - Other changes] (RTECS)
Carcinogenicity: IARC: Group 1: Carcinogenic to humans.
NTP: Reasonably anticipated to be a human carcinogen.
OSHA: Designated carcinogen

Phenol :

RTECS Number: SJ3325000
Eye: Eye - Rabbit Standard Draize test.: 5 mg
Eye - Rabbit Rinsed with water.: 5 mg/30S (RTECS)
Skin: Administration onto the skin - Rabbit Open irritation test: 535 mg
Administration onto the skin - Rabbit Standard Draize test.: 100 mg
Administration onto the skin - Rat LD50: 669 mg/kg [Behavioral - Tremor Kidney/Ureter/Bladder - Hematuria Skin and Appendages - Cutaneous sensitization, experimental (After topical exposure)]
Administration onto the skin - Rat LD50: 1500 mg/kg [Details of toxic effects not reported other than lethal dose value] (RTECS)
Inhalation: Inhalation - Mouse LC50: 177 mg/m3 [Details of toxic effects not reported other than lethal dose value]
Inhalation - Rat LC50: 316 mg/m3 [Details of toxic effects not reported other than lethal dose value]
Inhalation - Mouse LC50: 177 mg/m3/4H [Details of toxic effects not reported other than lethal dose value]
Inhalation - Rat LC50: 316 mg/m3/4H [Details of toxic effects not reported other than lethal dose value] (RTECS)
Ingestion: Oral - Rat LD50: 317 mg/kg [Behavioral - Convulsions or effect on seizure threshold]
Oral - Mouse LD50: 270 mg/kg [Details of toxic effects not reported other than lethal dose value]
Oral - Rat LD50: 512 mg/kg [Details of toxic effects not reported other than lethal dose value] (RTECS)

Crystalline Silica, Quartz :

RTECS Number: VV7330000

Calcium carbonate :

RTECS Number: EV9580000

Fiberglass :

RTECS Number: LK3651000

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, or Respiration - Dyspnea Nutritional and Gross Metabolic - Weight loss or decreased weight gain]
Oral - Mouse LD50 : 15600 mg/kg [Behavioral - Somnolence (general depressed activity) Lungs, Thorax, or Respiration - Dyspnea Nutritional and Gross Metabolic - Weight loss or decreased weight gain] (RTECS)

Zirconium dioxide :

RTECS Number: ZH8800000

Aluminum Oxide, Non-fibrous :

RTECS Number: BD1200000

Inhalation: Inhalation - Rat TCl₀: 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)

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)

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

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

Formaldehyde :

Canada IDL: Identified under the Canadian Hazardous Products Act Ingredient Disclosure List: 0.1%.781(918)

CA PROP 65: Listed: cancer.

Section 302 EHS: EPCRA (SARA Title III) Section 302 (40 CFR Part 355) Extremely Hazardous Substances (EHS) Threshold Planning Quantity (TPQ) in pounds.: 500 Lbs.

Section 313: EPCRA - 40 CFR Part 372 - (SARA Title III) Section 313 Listed Chemical.

Phenol :

Canada IDL: Identified under the Canadian Hazardous Products Act Ingredient Disclosure List: 0.1%.1261(1374)

Section 302 EHS: EPCRA (SARA Title III) Section 302 (40 CFR Part 355) Extremely Hazardous Substances (EHS) Threshold Planning Quantity (TPQ) in pounds.: 500/10,000 Lbs.

Section 313: EPCRA - 40 CFR Part 372 - (SARA Title III) Section 313 Listed Chemical.

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)

Formaldehyde :

EC Number: 200-001-8

Phenol :

EC Number: 203-632-7

Crystalline Silica, Quartz :

EC Number: 238-878-4

Calcium carbonate :

EC Number: 215-279-6

Fiberglass :

EC Number: 266-046-0

Zirconium dioxide :

EC Number: 215-227-2

Aluminum Oxide, Non-fibrous :

EC Number: 215-691-6

State Right To Know

	RI	MN	IL	PA	MA
Formaldehyde				Listed	Listed: Massachusetts Oil and Hazardous List
Phenol				Listed	Listed: Massachusetts Oil and Hazardous List
Crystalline Silica, Quartz				Listed	Listed
Calcium carbonate				Listed	Listed
Zirconium dioxide					Listed
Aluminum Oxide, Non-fibrous	Listed	Listed	No Data	Listed	Listed

	NJ				
Formaldehyde	Listed: NJ Hazardous EHS List				
Phenol	Listed: NJ Hazardous List; Substance Number: 1487				
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

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