

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
Phenol	108-95-2	5 - 10 by weight	203-632-7
Epoxy resin	25068-38-6	1 - 5 by weight	
Fiberglass	65997-17-3	10 - 30 by weight	266-046-0
Nylon	No Data	1 - 5 by weight	
Polyurethane resin	67700-43-0	10 - 30 by weight	
Aluminum Oxide, Non-fibrous	1344-28-1	10 - 30 by weight	215-691-6

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.

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 ACGIH	Quebec Canada	Ontario Canada	Alberta 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	OEL-TWA: 0.75 ppm OEL-Ceiling/Peak: 2 ppm
Phenol	PEL-TWA: 5 ppm Skin: Yes.	TLV-TWA: 5 ppm Skin: Yes.	VEMP-TWA: 5 ppm Skin: Yes.		OEL-TWA: 5 ppm Skin: Yes.
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			
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)	OEL-TWA: 10 mg/m3

Ingredient	Mexico	Ireland	Finland	Czech Republic	British Columbia Canada
Formaldehyde	LMPE-CT/Pico: 2 ppm	OELV-STEL: 2 ppm	Skin: Yes.	OEL-TWA: 0.5 mg/m3 Sensitizer.: Sen	OEL-TWA: 0.3 ppm Sensitizer.: Sen
Phenol	LMPE-PPT: 5 ppm LMPE-CT: 10 ppm Skin: Yes.				OEL-TWA: 5 ppm Skin: Yes.
Aluminum Oxide, Non-fibrous	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)
Ingredient	Belgium	Australia			
Formaldehyde	OEL-STEL: 0.3 ppm	NES-TWA: 1 ppm NES-STEL: 2 ppm			

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)

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)

Fiberglass :

RTECS Number: LK3651000

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)

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 DSL	TSCA Inventory Status			
Formaldehyde	Listed	Listed			
Phenol	Listed	Listed			
Epoxy resin	Listed	Listed			
Fiberglass	Listed	Listed			
Aluminum Oxide, Non-fibrous	Listed	Listed			

Canada Reg. Status: Controlled - Class: D2B
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by the Controlled Products Regulations.

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.

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

Fiberglass :

EC Number: 266-046-0

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
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

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