

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: Coated Abrasive Products

MSDS NO.: 1002.0
MSDS DATE: 3/15/2013

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Coated Abrasive Products

SYNONYMS: Aluminum Oxide Sandpaper (paper, film or cloth backing), Silicon Carbide Sandpaper (paper, film or cloth backing), Zirconium Oxide Sandpaper (paper, film or cloth backing), Garnet Sandpaper (paper, film or cloth backing), Emery Sandpaper (paper, film or cloth backing), Ceramic Sandpaper (paper, film or cloth backing)


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SECTION 1 NOTES: This MSDS is to cover any coated abrasive product, regardless of finished size, shape, application or use.



Health Hazard		Reactivity	
4	Deadly	4	May Detonate
3	Extreme Danger	3	Shock and Heat May Detonate
2	Hazardous	2	Violent Chemical Change
1	Slightly Hazardous	1	Unstable If Heated
0	Normal Material	0	Stable
Fire Hazard - Flash Point		Specific Hazard	
4	Below 73 F	OXY	Oxidizer
3	Below 100 F	ACID	Acid
2	Below 200 F	ALK	Alkali
1	Above 200 F	COR	Corrosive
0	Will Not Burn	W	Use NO WATER
			Radiation Hazard

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SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT(S):

This product may contain any of the following:

Ingredients	CAS Number	Max. Weight %	ACGIH TVL mg/m ³	PEL mg/m ³	SARA 313 Report
Aluminum Oxide (Ceramic Alumina)	1344-28-1	0-65	15	15	No
Silicon Carbide	409-21-2	0-65	15	15	No
Zirconium Oxide	1314-13-2	0-65	5	5	No
Garnet Abrasive	1302-62-1	0-65	10	20	No
Emery Abrasive	12415-34-8	0-65	10	20	No
Cured Binding Resin	n/a	1-25	n/a	n/a	No
Calcium Carbonate	1317-65-3	5-10	10	20	No
Kaolin	1332-58-7	5-10	10	20	No
Cryolite	15096-52-3	1-15	2.5	2.5	No
Inorganic Fluoride	14075-53-7	1-15	2.5	2.5	No

SECTION 2 NOTES:

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

Dust generated by the use of these products may be irritating. May cause delayed lung damage. Low hazard to usual industrial or commercial handling.

ROUTES OF ENTRY:

POTENTIAL HEALTH EFFECTS

EYES: Dust generated during normal use may irritate eyes.

SKIN: Excessive contact with generated dust may cause irritation.

INGESTION: No known effects but ingestion is not recommended.

INHALATION: Use of these products generates dust. Prolonged exposure to grinding dust may cause respiratory problems or aggravate existing conditions. Inhalation during grinding can cause coughing and shortness of breath. Consideration should also be given to the airborne concentration of the material being ground.

ACUTE HEALTH HAZARDS: Inhalation during grinding can cause coughing and shortness of breath.

CHRONIC HEALTH HAZARDS: May affect breathing capacity. For products containing phenol/formaldehyde resin, dust generated from intended use may contain trace amounts of phenol and formaldehyde which under excessive exposure may cause skin sensitization and airway obstruction. For products containing inorganic fluorides, excessive exposure to inorganic fluorides have been shown to increase bone density. Cutting and grinding can generate high noise levels and vibration which may affect normal hearing.

Alumina: Effects of Overexposure – Material is classified under OSHA as an inert or nuisance dust and would have the pulmonary effects of inert dust.

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CARCINOGENICITY

OSHA: ACGIH: NTP: IARC:
OTHER:

SECTION 3 NOTES: Coated abrasives are not a known carcinogen.

SECTION 4: FIRST AID MEASURES

EYES: Wash with large amounts of water. Obtain first aid and medical assistance, if needed.

SKIN: Wash affected areas with soap and water. Obtain medical assistance, if needed.

INGESTION: Call poison control center, hospital emergency room of physician immediately.

INHALATION: Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical attention immediately.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:

SECTION 4 NOTES:

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR, UPPER: None
(% BY VOLUME) LOWER: None

FLASH POINT:

F: None

C:

METHOD USED:

AUTOIGNITION TEMPERATURE:

F: None

C:

NFPA HAZARD CLASSIFICATION

HEALTH: 1 FLAMMABILITY: 1 REACTIVITY: 0
OTHER: N/A

HMIS HAZARD CLASSIFICATION

HEALTH: 1 FLAMMABILITY: 1 REACTIVITY: 0
PROTECTION: N/A

EXTINGUISHING MEDIA: Any suitable

SPECIAL FIRE FIGHTING PROCEDURES: None

UNUSUAL FIRE AND EXPLOSION HAZARDS: None

HAZARDOUS DECOMPOSITION PRODUCTS: None

SECTION 5 NOTES: Fire fighters should wear goggles and self-contained breathing apparatus to avoid inhalation of smoke or vapors. Consideration must be given to the potential fire/explosion hazardous from the material being processed. Many materials create flammable/explosive dusts when sanded.

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SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: Pick up, sweep up or vacuum and place in a container for disposal. Minimize generation of dust. Notify authorities as required by local, state and federal regulations.

SECTION 6 NOTES:

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE:

Handling: Always allow adequate ventilation when sanding, machining or grinding. Avoid breathing dust. Always consider potential hazards of exposure to materials being processed. Refer to OSHA's substance specific standards for additional work practice requirements where applicable.

Storage: Store in a dry location.

OTHER PRECAUTIONS:

SECTION 7 NOTES:

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Local exhaust ventilation as necessary to keep dust levels below Threshold Limit Values (TLV/TWA)

VENTILATION: Provide adequate ventilation during use.

RESPIRATORY PROTECTION: Use NIOSH approved respirators as required to maintain exposure below Threshold Limit Values (TLV/TWA). See OSHA 29 CFR 1910.134.

EYE PROTECTION: Safety goggles or safety glasses with side shields are recommended. See OSHA 29 CFR 1910.133.

SKIN PROTECTION: Leather, cloth, rubber or vinyl gloves as desired by user.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Hearing protection is recommended. See OSHA 29 CFR 1910.133.

WORK HYGIENIC PRACTICES: Normal use of bonded abrasive products produce dust.

SECTION 8 NOTES:

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Abrasive coated cloth or paper.

ODOR: None

PHYSICAL STATE: Solid

pH AS SUPPLIED: N/A

pH (Other):

BOILING POINT:

F: N/A

C:

MELTING POINT:

F: N/A

C:

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (con't)

FREEZING POINT:

F: N/A

C:

VAPOR PRESSURE (mmHg):

@

F: N/A

C:

VAPOR DENSITY (AIR = 1):

@

F: N/A

C:

SPECIFIC GRAVITY (H₂O = 1):

@

F: N/A

C:

EVAPORATION RATE: N/A

SOLUBILITY IN WATER: Very slight

PERCENT SOLIDS BY WEIGHT: 100

PERCENT VOLATILE:

BY WT/ BY VOL @

F: N/A

C:

VOLATILE ORGANIC COMPOUNDS (VOC): None

WITH WATER: N/A LBS/GAL

WITHOUT WATER: N/A LBS/GAL

MOLECULAR WEIGHT: N/A

VISCOSITY:

@

F: N/A

C:

SECTION 9 NOTES:

SECTION 10: STABILITY AND REACTIVITY

STABLE

UNSTABLE

STABILITY: Stable

CONDITIONS TO AVOID (STABILITY): N/A

INCOMPATIBILITY (MATERIAL TO AVOID): Avoid strong acids and bases.

HAZARDOUS DECOMPOSITION OR BY-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. For products containing phenol and formaldehyde resin, thermal decomposition may produce trace amounts of phenol and formaldehyde.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID (POLYMERIZATION): N/A

SECTION 10 NOTES:

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SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: N/A

SECTION 11 NOTES:

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: N/A

SECTION 12 NOTES:

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Use standard landfill methods consistent with applicable Federal, State and local laws.

RCRA HAZARD CLASS: N/A

SECTION 13: DISPOSAL CONSIDERATIONS (con't)

SECTION 13 NOTES:

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION

PROPER SHIPPING NAME: Coated Abrasive product
HAZARD CLASS: N/A
ID NUMBER: N/A
PACKING GROUP: N/A
LABEL STATEMENT: N/A

WATER TRANSPORTATION

PROPER SHIPPING NAME: Coated Abrasive product
HAZARD CLASS: N/A
ID NUMBER: N/A
PACKING GROUP: N/A
LABEL STATEMENTS: N/A

AIR TRANSPORTATION

PROPER SHIPPING NAME: Coated Abrasive product
HAZARD CLASS: N/A
ID NUMBER: N/A
PACKING GROUP: N/A
LABEL STATEMENTS: N/A

OTHER AGENCIES: N/A

SECTION 14 NOTES:

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SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT): N/A

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): N/A

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT): N/A

311/312 HAZARD CATEGORIES: N/A

313 REPORTABLE INGREDIENTS: N/A

STATE REGULATIONS: N/A

INTERNATIONAL REGULATIONS: N/A

SECTION 15 NOTES:

SECTION 16: OTHER INFORMATION

OTHER INFORMATION: N/A

PREPARATION INFORMATION: N/A

DISCLAIMER: The information and recommendations set forth herein are taken from sources believed to be accurate as of the date hereof; however, the Company makes no warranty with respect to the accuracy of the information or the suitability of the recommendations, and assumes no liability to any user thereof.