

MATERIAL SAFETY DATA SHEET

Product Identity / Trade Name: Coated Abrasives - Resin over Resin, Cotton Cloth, Fiber, Polyester Backing or Paper (Dry Wall Sheets, Cloth or Paper Sheets, Flap Wheels, Flap Disks, Fiber Disks, PSA Cloth Disks, Paper Stearate Disks, Shop Rolls, Abrasive Belts, Floor Sanding Products)

Manufacturer: United Abrasives, Inc.
P.O. Box 75, Route 66, Willimantic, CT 06226

MSDS Date of Preparation: November 3, 2000

Information Phone: (860) 456-7131 Emergency Phone: (860) 456-7131

2. COMPOSITION:

Hazardous Component	CAS #	OSHA PEL	ACGIH TLV	%
Aluminum Oxide	1344-28-1	15 mg/m3*	10 mg/m3	0-30
and/or Silicon Carbide	409-21-2	15 mg/m3*	10 mg/m3	0-30
and/or Garnet	12178-41-5	15 mg/m3*	10 mg/m3**	0-30
and/or Zirconium Oxide	1314-23-4	5 mg/m3	5 mg/m3	0-30
and/or Cubitron	N/A	None Established	None Established	
Cured Phenolic or Urea Formaldehyde Resin	N/A	None Established	None Established	5-30
and/or Calcium Carbonate	1317-65-3	15 mg/m3*	10 mg/m3	0-2
and/or Zinc Stearate	557-05-1	15 mg/m3*	10 mg/m3	0-10
and/or Carbon Black	1333-86-4	3.5 mg/m3	3.5 mg/m3	0-3
and/or Cryolite (as fluorides)	15096-52-3	2.5 mg/m3	2.5 mg/m3	0-10

* Total Dust

** Inhalable Particulate

The Permissible Exposure Limits (PEL) reported above are the pre-1989 limits that were reinstated by OSHA following a decision by the 11th Circuit Court of Appeals. These PELs are being enforced by Federal OSHA. Be aware that more restrictive exposure limits may be enforced by some states. United Abrasives Inc. recommends that the lower exposure limits be observed as reasonable worker protection.

3. HEALTH HAZARD DATA:

Acute Effects of Overexposure: Dust may cause eye and respiratory irritation. Dust particles may cause abrasive injury to the eyes.

Chronic Effects Of Overexposure: Long-term overexposure to respirable dust may cause lung damage (fibrosis) with symptoms of coughing, shortness of breath and diminished breathing capacity. Chronic effects may be aggravated by smoking. Prolonged exposure to elevated noise levels during operations may affect hearing. A greater hazard, in most cases, is the exposure to the dust/fumes from the material or paint/coatings being sanded. Most of the dust generated during sanding is from the base material being sanded and the potential hazard from this exposure must be evaluated.

Medical Conditions Aggravated by Exposure: Chronic respiratory disease.

Primary Route(s) of Exposure: Inhalation

Listed Carcinogen: None of the components is listed as a carcinogen or potential carcinogen by OSHA, NTP or IARC.

4. FIRST AID:

Ingestion: If sanding dust is swallowed, seek medical attention.

Inhalation: If overexposed to sanding dust, remove victim to fresh air and get medical attention.

Eye Contact: Flush eyes thoroughly with water, holding open eyelids. Get medical attention if irritation persists. Obtain immediate medical attention for foreign body in the eye.

Skin Contact: Wash dust from skin with soap and water.

5. FIRE AND EXPLOSION HAZARD DATA:

Flash Point: Non-Combustible Flammable Limits: LEL: N/A UEL: N/A

Extinguishing Media: Use any media that is appropriate for the surrounding fire.

Special Firefighting Procedures: None needed.

Unusual Fire and Explosion Hazards: This product is not combustible, however, consideration must be given to the potential fire/explosion hazards from the base material being processed. Many materials create flammable/explosive dusts or turnings when sanded, machined or ground.

Hazardous Combustion Products: None known.

6. ACCIDENTAL RELEASE MEASURES:

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

7. HANDLING AND STORAGE:

Recommended Work Practices: Use only with adequate ventilation. Avoid breathing dust. Wash thoroughly after handling and use, especially before eating, drinking or smoking.

Storage: Store in a dry location.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

Ventilation: Use local exhaust or general ventilation as required to minimize exposure to dust and maintain the concentration of contaminants below the TLVs.

Respiratory Protection: Use NIOSH approved respirator if exposure limits are exceeded or where dust exposures are excessive. Selection of respiratory protection depends on the contaminant type, form and concentration. Select and use respirators in accordance with OSHA 1910.134 and good industrial hygiene practice.

Gloves: Cloth or leather gloves recommended.

Eye Protection: Safety goggles or face shield.

Other: Protective clothing as needed to prevent contamination of personal clothing. Hearing protection may be required for some operations.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Boiling Point: N/A

Solubility in Water: Insoluble

Specific Gravity: N/A

Melting Point: N/A

Vapor Pressure: (mm Hg) N/A

Vapor Density: (Air = 1) N/A

Evaporation Rate: N/A

Appearance and Odor: Cloth or paper coated with abrasive material in sheets, disks or on wheels.

10. STABILITY AND REACTIVITY DATA:

Stability: Stable

Reactivity/Incompatibility (Materials or conditions to avoid): None known.

Hazardous Decomposition Products: Dust from sanding could contain ingredients listed in Section 2 and other, potentially more hazardous components of the base material being sanded or coatings applied to the base material.

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL DATA:

No toxicity data is available for this product.

12. ECOLOGICAL DATA:

No ecological data is available for this product.

13. DISPOSAL:

Follow all applicable Federal, State and Local Regulations.

14. TRANSPORTATION DATA:

This product is not regulated for transportation.

15. ENVIRONMENTAL REGULATORY DATA:

SARA Section 311/312 Hazard Categories: N/A

SARA Section 313:

Some products contain the following toxic chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372 (Toxic Chemical Release Reporting:

Zinc Stearate 557-05-1 0-10%

(Only in 9x11 Sheets - No Load Stearate, Fileboard Sheets - No Load, PSA Paper Disks - Stearate and Premium and Hook and Loop Paper Disks - Premium)

California Proposition 65: This is not known to contain chemicals regulated under the California Safe Drinking Water and Toxic Enforcement Act of 1986.

Canadian WHMIS Classification: Not a controlled product. This product meets the definition of a "manufactured article" under the WHMIS regulations.

16. OTHER INFORMATION:

NFPA Hazard Rating: Health: 1 Fire: 0 Reactivity: 0

Date Previous Revision: 11/22/97

Date This Revision: 11/3/00

Revision Summary: Section 2: Revised exposure limits.

Prepared By: Denese A. Deeds, CIH IH&SC Inc., Woodbridge, CT 06525

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The preceding information is believed to be correct and current as of the date of preparation of this Material Safety Data Sheet. Since the use of this information and the conditions of use of this product are not within the control of United Abrasives, Inc., it is the users obligation to assure safe use of this product.

MATERIAL SAFETY DATA SHEET

Product Identity / Trade Name: Non-woven Products (Nylon Brushes and Surface Cleaning Belts and Disks)

Manufacturer: United Abrasives, Inc.

P.O. Box 75, Route 66, Willimantic, CT 06226

MSDS Date of Preparation: November 3, 2000

Information Phone: (860) 456-7131 Emergency Phone: (860) 456-7131

2. COMPOSITION:

Hazardous Component	CAS #	OSHA PEL	ACGIH TLV	%
Aluminum Oxide	1344-28-1	15 mg/m3*	10 mg/m3	0-75
Silicon Carbide	409-21-2	15 mg/m3*	10 mg/m3	0-75
Feldspars	68476-25-5	15 mg/m3*	10 mg/m3***	0-50
Cured Resins	N/A	None Established	None Established	10-60
Nylon/Polyester Fibers	N/A	None Established	None Established	5-60
Talc	14807-96-6	20 mppcf	2 mg/m3 **	0-20
Quartz Silica	14808-60-7	see below	0.05 mg/m3 **	0-10

(Quartz is found only in white and green 6X9 hand pads)

*Total Dust

**Respirable Particulate

*** Inhalable Particulate

Quartz PEL: 10 mg/m3**
% SiO2 + 2

The Permissible Exposure Limits (PEL) reported above are the pre-1989 limits that were reinstated by OSHA following a decision by the 11th Circuit Court of Appeals. These PELs are being enforced by Federal OSHA. Be aware that more restrictive exposure limits may be enforced by some states. United Abrasives Inc. recommends that the lower exposure limits be observed as reasonable worker protection.

3. HEALTH HAZARD DATA:

Acute Effects of Overexposure: Dust may cause eye and respiratory irritation. Dust particles may cause abrasive injury to the eyes.

Chronic Effects Of Overexposure: Long-term overexposure to respirable dust may cause lung damage (fibrosis) with symptoms of coughing, shortness of breath and diminished breathing capacity. Chronic effects may be aggravated by smoking. A greater hazard, in most cases, is the exposure to the dust/fumes from the material or paint/coatings being sanded. Most of the dust generated during sanding is from the base material being sanded and the potential hazard from this exposure must be evaluated.

Medical Conditions Aggravated by Exposure: Chronic respiratory disease.

Primary Route(s) of Exposure: Inhalation

Listed Carcinogen: Crystalline Silica (quartz) is listed by IARC as a Group 2A carcinogen and by NTP as anticipated to be a carcinogen. Quartz is found only in the green and white 6X9 hand pads. None of the other components is listed as a carcinogen or potential carcinogen by OSHA, NTP or IARC.

4. FIRST AID:

Ingestion: If sanding dust is swallowed, seek medical attention.

Inhalation: If overexposed to sanding dust, remove victim to fresh air and get medical attention.

Eye Contact: Flush eyes thoroughly with water, holding open eyelids. Get medical attention if irritation persists.

Obtain immediate medical attention for foreign body in the eye.

Skin Contact: Wash dust from skin with soap and water.

5. FIRE AND EXPLOSION HAZARD DATA:

Flash Point: N/A Flammable Limits: LEL: N/A UEL: N/A

Extinguishing Media: Use any media that is appropriate for the surrounding fire.

Special Firefighting Procedures: None needed.

Unusual Fire and Explosion Hazards: This product is not flammable but will burn. Consideration must also be given to the potential fire/explosion hazards from the base material being processed. Many materials create flammable/explosive dusts or turnings when sanded, machined or ground.

Hazardous Combustion Products: Oxides of carbon and nitrogen.

6. ACCIDENTAL RELEASE MEASURES:

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

7. HANDLING AND STORAGE:

Recommended Work Practices: Use only with adequate ventilation. Avoid breathing dust. Wash thoroughly after handling and use, especially before eating, drinking or smoking.

Storage: Store in a dry location.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

Ventilation: Use local exhaust or general ventilation as required to minimize exposure to dust and maintain the concentration of contaminants below the TLVs.

Respiratory Protection: Use NIOSH approved respirator if exposure limits are exceeded or where dust exposures are excessive. Selection of respiratory protection depends on the contaminant type, form and concentration. Select and use respirators in accordance with OSHA 1910.134 and good industrial hygiene practice.

Gloves: Cloth or leather gloves recommended.

Eye Protection: Safety goggles or face shield.

Other: Protective clothing as needed to prevent contamination of personal clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Boiling Point: N/A

Solubility in Water: Insoluble

Specific Gravity: N/A

Melting Point: N/A

Appearance and Odor: Nonwoven fibrous articles impregnated with abrasive particles which are bonded together with cured resins.

Vapor Pressure: (mm Hg) N/A

Vapor Density: (Air = 1) N/A

Evaporation Rate: N/A

10. STABILITY AND REACTIVITY DATA:

Stability: Stable

Reactivity/Incompatibility (Materials or conditions to avoid): None known.

Hazardous Decomposition Products: Dust from sanding could contain ingredients listed in Section 2 and other, potentially more hazardous components of the base material being sanded or coatings applied to the base material.

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL DATA:

No toxicity data is available for this product.

12. ECOLOGICAL DATA:

No ecological data is available for this product.

13. DISPOSAL:

Follow all applicable Federal, State and Local Regulations.

14. TRANSPORTATION DATA:

This product is not regulated for transportation.

15. ENVIRONMENTAL REGULATORY DATA:

SARA Section 311/312 Hazard Categories: N/A

SARA Section 313:

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372 (Toxic Chemical Release Reporting:

None

United Abrasives MSDS #8/9
Non-woven Products (6/00)

California Proposition 65: Some of these products contain crystalline silica which is regulated under the California Safe Drinking Water and Toxic Enforcement Act of 1986, however, since no significant exposure to silica from the pad occurs during the normal use of these products, no warning is required.

Canadian WHMIS Classification: Not a controlled product. This product meets the definition of a "manufactured article" under the WHMIS regulations.

16. OTHER INFORMATION:

NFPA Hazard Rating: Health: 1 Fire: 0 Reactivity: 0

Date Previous Revision: 6/22/00

Date This Revision: 11/3/00

Revision Summary: Section 1: Changed name of MSDS
Section 2: Revised exposure limits.

Prepared By: Denese A. Deeds, CIH IH&SC Inc., Woodbridge, CT 06525

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The preceding information is believed to be correct and current as of the date of preparation of this Material Safety Data Sheet. Since the use of this information and the conditions of use of this product are not within the control of United Abrasives, Inc., it is the users obligation to assure safe use of this product.

MATERIAL SAFETY DATA SHEET

Product Identity / Trade Name: Carbon Steel Wire Brushes

Manufacturer: United Abrasives, Inc.

P.O. Box 75, Route 66, Willimantic, CT 06226

MSDS Date of Preparation: November 1, 2000

Information Phone: (860) 456-7131 Emergency Phone: (860) 456-7131

2. COMPOSITION:

Hazardous Component	CAS #	OSHA PEL	ACGIH TLV	%
Iron	7439-89-6	15 mg/m3 *	10 mg/m3 **	95-99
Manganese	7439-96-5	5 mg/m3 C	0.2 mg/m3	1.7 max
Chromium	7440-47-3	1 mg/m3	0.5 mg/m3	1.5 max
Silicon	7440-21-3	None Established	10 mg/m3*	1.6 max

* Total Dust

C=Ceiling Limit

** Inhalable Dust

The Permissible Exposure Limits (PEL) reported above are the pre-1989 limits that were reinstated by OSHA following a decision by the 11th Circuit Court of Appeals. These PELs are being enforced by Federal OSHA. Be aware that more restrictive exposure limits may be enforced by some states. United Abrasives Inc. recommends that the lower exposure limits be observed as reasonable worker protection.

3. HEALTH HAZARD DATA:

Acute Effects of Overexposure: Dust may cause eye and respiratory irritation. Dust particles may cause abrasive injury to the eyes.

Chronic Effects Of Overexposure: Long-term overexposure to dust may cause lung damage (fibrosis) with symptoms of coughing, shortness of breath and diminished breathing capacity. Chronic effects may be aggravated by smoking. A greater hazard, in most cases, is the exposure to the dust/fumes from the material or paint/coatings being ground or brushed. Most of the dust generated during grinding and brushing is from the base material being processed and the potential hazard from this exposure must be evaluated. Prolonged exposure to elevated noise levels during operations may affect hearing.

Medical Conditions Aggravated by Exposure: Chronic respiratory disease.

Primary Route(s) of Exposure: Inhalation

Listed Carcinogen: None of the components is listed as a carcinogen or potential carcinogen by OSHA, NTP or IARC.

4. FIRST AID:

Ingestion: If dust is swallowed, seek medical attention.

Inhalation: If overexposed to dust, remove victim to fresh air and get medical attention.

Eye Contact: Flush eyes thoroughly with water, holding open eyelids. Get medical attention if irritation persists. Obtain immediate medical attention for foreign body in the eye.

Skin Contact: Wash dust from skin with soap and water.

5. FIRE AND EXPLOSION HAZARD DATA:

Flash Point: Non-Combustible Flammable Limits: LEL: N/A UEL: N/A

Extinguishing Media: Use any media that is appropriate for the surrounding fire.

Special Firefighting Procedures: None needed.

Unusual Fire and Explosion Hazards: This product is not combustible, however, consideration must be given to the potential fire/explosion hazards from the base material being processed. Many materials create flammable/explosive dusts or turnings when brushed, machined or ground.

Hazardous Combustion Products: None known.

6. ACCIDENTAL RELEASE MEASURES:

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

7. HANDLING AND STORAGE:

Recommended Work Practices: Use only with adequate ventilation. Avoid breathing dust. Wash thoroughly after handling and use, especially before eating, drinking or smoking.

In normal power brushing operations, the material being removed will fly off the brush with considerable force along with the brush filaments, which break off due to fatigue. The potential for serious injury exists for both the operator and others in the work area (possibly 50 feet or more from the brush). To protect against this hazard, before rotating the brush, during rotation and until the rotation stops, all persons in the area must wear safety goggles or full face shields over safety glasses with side shields, along with appropriate protective clothing.

Storage: Store in a dry location.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

Ventilation: Use local exhaust or general ventilation as required to minimize exposure to dust and maintain the concentration of contaminants below the TLVs.

Respiratory Protection: Use NIOSH approved respirator if exposure limits are exceeded or where dust exposures are excessive. Selection of respiratory protection depends on the contaminant type, form and concentration. Select and use respirators in accordance with OSHA 1910.134 and good industrial hygiene practice.

Gloves: Cloth or leather gloves recommended.

Eye Protection: Safety goggles or face shield over safety glasses with side shields.

Other: Protective clothing as needed to prevent contamination of personal clothing. Hearing protection may be required for some operations.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Boiling Point: N/A

Vapor Pressure: (mm Hg) N/A

Solubility in Water: Insoluble

Vapor Density: (Air = 1) N/A

Specific Gravity: N/A

Evaporation Rate: N/A

Melting Point: N/A

Appearance and Odor: Solid gray brushes.

10. STABILITY AND REACTIVITY DATA:

Stability: Stable

Reactivity/Incompatibility (Materials or conditions to avoid): None known.

Hazardous Decomposition Products: Dust from grinding or brushing could contain ingredients listed in Section 2 and other, potentially more hazardous components of the base material being ground or brushed or coatings applied to the base material.

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL DATA:

No toxicity data is available for this product.

12. ECOLOGICAL DATA:

No ecological data is available for this product.

13. DISPOSAL:

Follow all applicable Federal, State and Local Regulations.

14. TRANSPORTATION DATA:

This product is not regulated for transportation.

15. ENVIRONMENTAL REGULATORY DATA:

SARA Section 311/312 Hazard Categories: N/A

SARA Section 313:

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372 (Toxic Chemical Release Reporting):

Manganese	7439-96-5	1.7% max.
Chromium	7440-47-3	1.5% max.

California Proposition 65: This is not known to contain chemicals regulated under the California Safe Drinking Water and Toxic Enforcement Act of 1986.

Canadian WHMIS Classification: Not a controlled product. This product meets the definition of a "manufactured article" under the WHMIS regulations.

16. OTHER INFORMATION:

NFPA Hazard Rating: Health: 1 Fire: 0 Reactivity: 0

Date Previous Revision: 11/22/97

Date This Revision: 11/1/00

Revision Summary: Section 2: Exposure Limits revised

Prepared By: Denese A. Deeds, CIH IH&SC Inc., Woodbridge, CT 06525

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The preceding information is believed to be correct and current as of the date of preparation of this Material Safety Data Sheet. Since the use of this information and the conditions of use of this product are not within the control of United Abrasives, Inc., it is the users obligation to assure safe use of this product.

MATERIAL SAFETY DATA SHEET

Product Identity / Trade Name: Stainless Steel Wire Brushes

Manufacturer: United Abrasives, Inc.
P.O. Box 75, Route 66, Willimantic, CT 06226

MSDS Date of Preparation: November 1, 2000

Information Phone: (860) 456-7131 Emergency Phone: (860) 456-7131

2. COMPOSITION:

Hazardous Component	CAS #	OSHA PEL	ACGIH TLV	%
Iron	7439-89-6	15 mg/m3*	10 mg/m3**	49-90
Manganese	7439-96-5	5 mg/m3 C	0.2 mg/m3	0-15
Chromium	7440-47-3	1 mg/m3	0.5 mg/m3	10-30
Nickel	7440-02-0	1 mg/m3	1.5 mg/m3**	0-35
Tungsten	7440-33-7	None Established	5 mg/m3	0-4
Molybdenum	7439-98-7	15 mg/m3*	10 mg/m3*	0-4
Aluminum	7429-90-5	15 mg/m3*	10 mg/m3	0-2
Copper	7440-50-8	1 mg/m3	1 mg/m3	0-4
Silicon	7440-21-3	15 mg/m3*	10 mg/m3	0-5
Cobalt	7440-48-7	0.1 mg/m3	0.02 mg/m3	0-5

* Total Dust

** Inhalable Particulate

C=Ceiling Limit

The Permissible Exposure Limits (PEL) reported above are the pre-1989 limits that were reinstated by OSHA following a decision by the 11th Circuit Court of Appeals. These PELs are being enforced by Federal OSHA. Be aware that more restrictive exposure limits may be enforced by some states. United Abrasives Inc. recommends that the lower exposure limits be observed as reasonable worker protection.

3. HEALTH HAZARD DATA:

Acute Effects of Overexposure: Dust may cause eye and respiratory irritation. Dust particles may cause abrasive injury to the eyes. Nickel exposure can cause an allergic dermatitis called "nickel itch". Chromium and cobalt exposure can cause skin irritation and skin and/or respiratory sensitization.

Chronic Effects Of Overexposure: Long-term overexposure to respirable dust may cause lung damage (fibrosis) with symptoms of coughing, shortness of breath and diminished breathing capacity. Skin and/or respiratory sensitization may also occur. Chronic effects may be aggravated by smoking. A greater hazard, in most cases, is the exposure to the dust/fumes from the material or paint/coatings being sanded. Most of the dust generated during sanding is from the base material being sanded and the potential hazard from this exposure must be evaluated. Prolonged exposure to elevated noise levels during operations may affect hearing.

Medical Conditions Aggravated by Exposure: Chronic respiratory disease.

Primary Route(s) of Exposure: Inhalation

Listed Carcinogen: Nickel and cobalt are classified as group 2B carcinogens by IARC. Nickel is listed by NTP as reasonably anticipated to be a carcinogen.

4. FIRST AID:

Ingestion: If dust is swallowed, seek immediate medical attention.

Inhalation: If overexposed to dust, remove victim to fresh air and get medical attention.

Eye Contact: Flush eyes thoroughly with water, holding open eyelids. Get medical attention if irritation persists. Obtain immediate medical attention for foreign body in the eye.

Skin Contact: Wash dust from skin with soap and water. Launder contaminated clothing before reuse.

5. FIRE AND EXPLOSION HAZARD DATA:

Flash Point: Non-Combustible

Flammable Limits: LEL: N/A UEL: N/A

Extinguishing Media: Use any media that is appropriate for the surrounding fire.

Special Firefighting Procedures: None needed.

Unusual Fire and Explosion Hazards: This product is not combustible, however, consideration must be given to the potential fire/explosion hazards from the base material being processed. Many materials create flammable/explosive dusts or turnings when brushed, machined or ground.

Hazardous Combustion Products: None known.

6. ACCIDENTAL RELEASE MEASURES:

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

7. HANDLING AND STORAGE:

Recommended Work Practices: Use only with adequate ventilation. Avoid breathing dust. Wash thoroughly after handling and use, especially before eating, drinking or smoking.

In normal power brushing operations, the material being removed will fly off the brush with considerable force along with the brush filaments, which break off due to fatigue. The potential for serious injury exists for both the operator and others in the work area (possibly 50 feet or more from the brush). To protect against this hazard, before rotating the brush, during rotation and until the rotation stops, all persons in the area must wear safety goggles or full face shields over safety glasses with side shields, along with appropriate protective clothing.

Storage: Store in a dry location.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

Ventilation: Use local exhaust or general ventilation as required to minimize exposure to dust and maintain the concentration of contaminants below the TLVs.

Respiratory Protection: Use NIOSH approved respirator if exposure limits are exceeded or where dust exposures are excessive. Selection of respiratory protection depends on the contaminant type, form and concentration. Select and use respirators in accordance with OSHA 1910.134 and good industrial hygiene practice.

Gloves: Cloth or leather gloves recommended.

Eye Protection: Safety goggles or face shield over safety glasses with side shields.

Other: Protective clothing as needed to prevent contamination of personal clothing. Hearing protection may be required for some operations.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Boiling Point: N/A Vapor Pressure: (mm Hg) N/A
Solubility in Water: Insoluble Vapor Density: (Air = 1) N/A
Specific Gravity: N/A Evaporation Rate: N/A
Melting Point: N/A
Appearance and Odor: Solid gray brushes.

10. STABILITY AND REACTIVITY DATA:

Stability: Stable
Reactivity/Incompatibility (Materials or conditions to avoid): None known.
Hazardous Decomposition Products: Dust from grinding or brushing could contain ingredients listed in Section 2 and other, potentially more hazardous components of the base material being ground or brushed or coatings applied to the base material.
Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL DATA:

No toxicity data is available for this product.

12. ECOLOGICAL DATA:

No ecological data is available for this product.

13. DISPOSAL:

Follow all applicable Federal, State and Local Regulations.

14. TRANSPORTATION DATA:

This product is not regulated for transportation.

15. ENVIRONMENTAL REGULATORY DATA:

SARA Section 311/312 Hazard Categories: N/A

SARA Section 313:

Some products contain the following toxic chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372 (Toxic Chemical Release Reporting:

Manganese	7439-96-5	15% max.
Chromium	7440-47-3	30% max.
Cobalt	7440-48-7	5% max.
Copper	7440-50-8	4% max.
Nickel	7440-02-0	35% max.

California Proposition 65: This product contains cobalt and nickel which are regulated under the California Safe Drinking Water and Toxic Enforcement Act of 1986 as known to cause cancer, however, since no exposure to these chemicals occurs during the normal use of these products, no warning is required.

Canadian WHMIS Classification: Not a controlled product. This product meets the definition of a "manufactured article" under the WHMIS regulations.

16. OTHER INFORMATION:

NEPA Hazard Rating: Health: 1 Fire: 0 Reactivity: 0

Date Previous Revision: 11/22/97

Date This Revision: 11/1/00

Revision Summary: Section 2: Exposure Limits revised

Prepared By: Denese A. Deeds, CIH IH&SC Inc., Woodbridge, CT 06525

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MATERIAL SAFETY DATA SHEET

Product Identity / Trade Name: Brass Wire Brushes

Manufacturer: United Abrasives, Inc.

P.O. Box 75, Route 66, Willimantic, CT 06226

MSDS Date of Preparation: November 1, 2000

Information Phone: (860) 456-7131 Emergency Phone: (860) 456-7131

2. COMPOSITION:

Hazardous Component	CAS #	OSHA PEL	ACGIH TLV	%
Copper	7440-50-8	1 mg/m3	1 mg/m3	60-85
Zinc	7440-66-6	15 mg/m3 *	10 mg/m3	15-40

* Total Dust

The Permissible Exposure Limits (PEL) reported above are the pre-1989 limits that were reinstated by OSHA following a decision by the 11th Circuit Court of Appeals. These PELs are being enforced by Federal OSHA. Be aware that more restrictive exposure limits may be enforced by some states. United Abrasives Inc. recommends that the lower exposure limits be observed as reasonable worker protection.

3. HEALTH HAZARD DATA:

Acute Effects of Overexposure: Dust may cause eye and respiratory irritation. Dust particles may cause abrasive injury to the eyes.

Chronic Effects Of Overexposure: Long-term overexposure to dust may cause lung damage (fibrosis) with symptoms of coughing, shortness of breath and diminished breathing capacity. Chronic effects may be aggravated by smoking. Prolonged absorption of copper may cause adverse effects on the liver, kidneys and blood along with discoloration of hair and skin. Absorption of copper is not expected in the normal use of this product. A greater hazard, in most cases, is the exposure to the dust/fumes from the material or paint/coatings being ground or brushed. Most of the dust generated during grinding and brushing is from the base material being processed and the potential hazard from this exposure must be evaluated. Prolonged exposure to elevated noise levels during operations may affect hearing.

Medical Conditions Aggravated by Exposure: Chronic respiratory disease.

Primary Route(s) of Exposure: Inhalation

Listed Carcinogen: None of the components is listed as a carcinogen or potential carcinogen by OSHA, NTP or IARC.

4. FIRST AID:

Ingestion: If dust is swallowed, seek medical attention.

Inhalation: If overexposed to dust, remove victim to fresh air and get medical attention.

Eye Contact: Flush eyes thoroughly with water, holding open eyelids. Get medical attention if irritation persists. Obtain immediate medical attention for foreign body in the eye.

Skin Contact: Wash dust from skin with soap and water.

5. FIRE AND EXPLOSION HAZARD DATA:

Flash Point: Non-Combustible Flammable Limits: LEL: N/A UEL: N/A

Extinguishing Media: Use any media that is appropriate for the surrounding fire.

Special Firefighting Procedures: None needed.

Unusual Fire and Explosion Hazards: This product is not combustible, however, consideration must be given to the potential fire/explosion hazards from the base material being processed. Many materials create flammable/explosive dusts or turnings when brushed, machined or ground.

Hazardous Combustion Products: None known.

6. ACCIDENTAL RELEASE MEASURES:

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

7. HANDLING AND STORAGE:

Recommended Work Practices: Use only with adequate ventilation. Avoid breathing dust. Wash thoroughly after handling and use, especially before eating, drinking or smoking.

In normal power brushing operations, the material being removed will fly off the brush with considerable force along with the brush filaments, which break off due to fatigue. The potential for serious injury exists for both the operator and others in the work area (possibly 50 feet or more from the brush). To protect against this hazard, before rotating the brush, during rotation and until the rotation stops, all persons in the area must wear safety goggles or full face shields over safety glasses with side shields, along with appropriate protective clothing.

Storage: Store in a dry location.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

Ventilation: Use local exhaust or general ventilation as required to minimize exposure to dust and maintain the concentration of contaminants below the TLVs.

Respiratory Protection: Use NIOSH approved respirator if exposure limits are exceeded or where dust exposures are excessive. Selection of respiratory protection depends on the contaminant type, form and concentration. Select and use respirators in accordance with OSHA 1910.134 and good industrial hygiene practice.

Gloves: Cloth or leather gloves recommended.

Eye Protection: Safety goggles or face shield over safety glasses with side shields.

Other: Protective clothing as needed to prevent contamination of personal clothing. Hearing protection may be required for some operations.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Boiling Point: N/A

Vapor Pressure: (mm Hg) N/A

Solubility in Water: Insoluble

Vapor Density: (Air = 1) N/A

Specific Gravity: N/A

Evaporation Rate: N/A

Melting Point: N/A

Appearance and Odor: Solid brushes.

10. STABILITY AND REACTIVITY DATA:

Stability: Stable

Reactivity/Incompatibility (Materials or conditions to avoid): None known.

Hazardous Decomposition Products: Dust from grinding or brushing could contain ingredients listed in Section 2 and other, potentially more hazardous components of the base material being ground or brushed or coatings applied to the base material.

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL DATA:

No toxicity data is available for this product.

12. ECOLOGICAL DATA:

No ecological data is available for this product.

13. DISPOSAL:

Follow all applicable Federal, State and Local Regulations.

14. TRANSPORTATION DATA:

This product is not regulated for transportation.

15. ENVIRONMENTAL REGULATORY DATA:

SARA Section 311/312 Hazard Categories: N/A

SARA Section 313:

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372 (Toxic Chemical Release Reporting):

Copper	7440-50-8	60-85%
Zinc	7440-66-6	15-40%

California Proposition 65: This product contains lead which is known to the State of California to cause cancer. This product contains lead which is known to the State of California to cause developmental and reproductive toxicity.

Canadian WHMIS Classification: Not a controlled product. This product meets the definition of a "manufactured article" under the WHMIS regulations.

16. OTHER INFORMATION:

NFPA Hazard Rating: Health: 1 Fire: 0 Reactivity: 0

Date Previous Revision: 11/22/97

Date This Revision: 11/1/00

Revision Summary: Section 2: Exposure Limits revised; Section 3: Chronic Effects; Section 15: California Prop 65

Prepared By: Denese A. Deeds, CIH IH&SC Inc., Woodbridge, CT 06525

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The preceding information is believed to be correct and current as of the date of preparation of this Material Safety Data Sheet. Since the use of this information and the conditions of use of this product are not within the control of United Abrasives, Inc., it is the users obligation to assure safe use of this product.

MATERIAL SAFETY DATA SHEET

Product Identity / Trade Name: Rubbing Stones (Hand and Floor Rubs)

Manufacturer: United Abrasives, Inc.

P.O. Box 75, Route 66, Willimantic, CT 06226

MSDS Date of Preparation: November 1, 2000

Information Phone: (860) 456-7131 Emergency Phone: (860) 456-7131

2. COMPOSITION:

Hazardous Component	CAS #	OSHA PEL	ACGIH TLV	%
Aluminum Oxide	1344-28-1	15 mg/m3 *	10 mg/m3*	0-70
Silicon Carbide	409-21-2	15 mg/m3 *	10 mg/m3 *	0-70
Cured Phenolic Resin	N/A	None Established	None Established	0-20
Sulfur	7704-34-9	None Established	None Established	0-5
Iron Oxide	1309-37-1	10 mg/m3	5 mg/m3 *	0-5
Cryolite (as fluorides)	15096-52-3	2.5 mg/m3	2.5 mg/m3	1-5
* Total Dust				

The Permissible Exposure Limits (PEL) reported above are the pre-1989 limits that were reinstated by OSHA following a decision by the 11th Circuit Court of Appeals. These PELs are being enforced by Federal OSHA. Be aware that more restrictive exposure limits may be enforced by some states. United Abrasives Inc. recommends that the lower exposure limits be observed as reasonable worker protection.

3. HEALTH HAZARD DATA:

Acute Effects of Overexposure: Dust may cause eye and respiratory irritation. Dust particles may cause abrasive injury to the eyes.

Chronic Effects Of Overexposure: Long-term overexposure to respirable dust may cause lung damage (fibrosis) with symptoms of coughing, shortness of breath and diminished breathing capacity. Chronic effects may be aggravated by smoking. Prolonged overexposure to fluorides may cause a bone condition, fluorosis. A greater hazard, in most cases, is the exposure to the dust/fumes from the material or paint/coatings being sanded. Most of the dust generated during sanding is from the base material being sanded and the potential hazard from this exposure must be evaluated.

Medical Conditions Aggravated by Exposure: Chronic respiratory disease.

Primary Route(s) of Exposure: Inhalation

Listed Carcinogen: None of the components is listed as a carcinogen or potential carcinogen by OSHA, NTP or IARC.

4. FIRST AID:

Ingestion: If sanding dust is swallowed, seek medical attention.

Inhalation: If overexposed to sanding dust, remove victim to fresh air and get medical attention.

Eye Contact: Flush eyes thoroughly with water, holding open eyelids. Get medical attention if irritation persists. Obtain immediate medical attention for foreign body in the eye.

Skin Contact: Wash dust from skin with soap and water.

5. FIRE AND EXPLOSION HAZARD DATA:

Flash Point: Non-Combustible Flammable Limits: LEL: N/A UEL: N/A

Extinguishing Media: Use any media that is appropriate for the surrounding fire.

Special Firefighting Procedures: None needed.

Unusual Fire and Explosion Hazards: This product is not combustible, however, consideration must be given to the potential fire/explosion hazards from the base material being processed. Many materials create flammable/explosive dusts or turnings when sanded, machined or ground.

Hazardous Combustion Products: None known.

6. ACCIDENTAL RELEASE MEASURES:

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

7. HANDLING AND STORAGE:

Recommended Work Practices: Use only with adequate ventilation. Avoid breathing dust. Wash thoroughly after handling and use, especially before eating, drinking or smoking.

Storage: Store in a dry location.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

Ventilation: Use local exhaust or general ventilation as required to minimize exposure to dust and maintain the concentration of contaminants below the TLVs.

Respiratory Protection: Use NIOSH approved respirator if exposure limits are exceeded or where dust exposures are excessive. Selection of respiratory protection depends on the contaminant type, form and concentration. Select and use respirators in accordance with OSHA 1910.134 and good industrial hygiene practice.

Gloves: Cloth or leather gloves recommended.

Eye Protection: Safety goggles or face shield.

Other: Protective clothing as needed to prevent contamination of personal clothing. Hearing protection may be required for some

9. PHYSICAL AND CHEMICAL PROPERTIES:

Boiling Point: N/A

Vapor Pressure: (mm Hg) N/A

Solubility in Water: Insoluble

Vapor Density: (Air = 1) N/A

Specific Gravity: N/A

Evaporation Rate: N/A

Melting Point: N/A

Appearance and Odor: Solid stone, grey color.

10. STABILITY AND REACTIVITY DATA:

Stability: Stable

Reactivity/Incompatibility (Materials or conditions to avoid): None known.

Hazardous Decomposition Products: Dust from sanding could contain ingredients listed in Section 2 and other, potentially more hazardous components of the base material being sanded or coatings applied to the base material.

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL DATA:

No toxicity data is available for this product.

12. ECOLOGICAL DATA:

No ecological data is available for this product.

13. DISPOSAL:

Follow all applicable Federal, State and Local Regulations.

14. TRANSPORTATION DATA:

This product is not regulated for transportation.

15. ENVIRONMENTAL REGULATORY DATA:

SARA Section 311/312 Hazard Categories: N/A

SARA Section 313:

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372 (Toxic Chemical Release Reporting:

None

California Proposition 65: This is not known to contain chemicals regulated under the California Safe Drinking Water and Toxic Enforcement Act of 1986.

Canadian WHMIS Classification: Not a controlled product. This product meets the definition of a "manufactured article" under the WHMIS regulations.

16. OTHER INFORMATION:

NFPA Hazard Rating: Health: 1 Fire: 0 Reactivity: 0

Date Previous Revision: 11/22/97

Date This Revision: 11/1/00

Revision Summary: Section 2: Exposure Limits revised; Section 3: Chronic Effects

Prepared By: Denese A. Deeds, CIH IH&SC Inc., Woodbridge, CT 06525

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The preceding information is believed to be correct and current as of the date of preparation of this Material Safety Data Sheet. Since the use of this information and the conditions of use of this product are not within the control of United Abrasives, Inc., it is the users obligation to assure safe use of this product.



Component Hardware Group, Inc.

1890 Swarthmore Avenue • PO Box 2020 • Lakewood, New Jersey 08701 USA
Phone 1-800-526-3694 • 732-363-4700 • Fax 732-364-8110

To:	STICKEL PKG	From:	JOHN FORAN
Date:	11/26/02	Pages:	1

ATTENTION: CHRIS/KAREN

IN REGARDS TO THE RIGHT TO KNOW LAWS, I NEED TO BUILD A FILE OF MSDS SHEETS FOR THE FOLLOWING PRODUCTS WE BUY:

WINDEX GALLONS DRK 90940

~~PINE CLEANER AJAX PINE GALLONS~~

COMET CLEANSER 21 OUNCE PGC 02255

HAND SOAP GO JO LOTION #9112

HAND SOAP PINK LOTION 4 PER CASE

AIR FRESHENER #RM5131 LEMON LIME

LEMON SCENT CLOROX 1 GALLON BOTTLE CLO 02460

BORAXO HAND SOAP 10 LB BOX DIA 02203

DRK94399 LEMON SCENT PLEDGE POLISH

PGC08069 COMET CLEANSER CRÈME ✓

PGC030086 CASCADE DISHWASHER DETERGENT

REC74260 LYSOL COUNTRY SCENT SPRAY

REC74827 LYSOL CRISP LINEN SCENT SPRAY

JAN03711 TY-D-BOWL TOILET CLEANER

CLO 00031 CLOROX TOILET BOWL CLEANER

#119470 FLUSH AWAY ACID BOWL CLEANER

#114612 WET LOOK PLUS WAX 5 GALLON PAIL

SYSTEM CLEAN NEUTRAL CLEANER 4/ 1 GALLON SYS 51001

~~114620 WAX AWAY PROFESSIONAL STRIPPER 5 GAL.~~

REGARDS,

JOHN FORAN