



844-784-6518

716-235-5286

METALLOGRAPHY WORLD CORPORATION
dba METALLURGICAL SUPPLIES CORP
PO BOX 516
BUFFALO, NY 14207
metallurgicalsupplies.com

SAFETY DATA SHEET

revision date 11/25/2016

1. IDENTIFICATION

Product Name: Precision Rubber Bonded Abrasive Products

Details of the supplier of the safety data sheet
Metallography World Corp dba Metallurgical Supplies
PO Box 516
Buffalo, NY 14207

2. HAZARD(S) IDENTIFICATION

Hazard Status: This product is classified as non-hazardous under OSHA Hazard Communication Standard, 29 CFR 1910.1200

Label elements:

HMIS Hazard Rating	
Health	1
Flammability	0
Reactivity	0
Personal Protection	E

Pictograms: Warning



Description of Hazard(s):

Respiratory: Wheel dust is a respiratory irritant

Skin: Wheel dust and fiberglass reinforcement is a skin irritant

Ingestion: Acute product toxicity unknown

Eyes: Wheel dust is an eye irritant

Chronic: Potential chronic effects include skin sensitization and restricted breathing. Wear respirator, eye protection and protective clothing when using product. Product will produce sparks and debris when in use, never use this product near reactive or flammable substances. Never use product if it comes in contact with water.

Supplemental Labeling: 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 ground. Most of the dust generated during grinding is from the base material being ground and the potential hazard from this exposure must be evaluated. This dust may present a fire or dust explosion hazard and may present a serious health hazard.

3. COMPOSITION



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<u>Substance Description</u>	<u>Percent</u>	<u>Cas#</u>
Aluminum Oxide, non-fibrous	70-80	1344-28-1
Iron oxide	7-9	1309-37-1
Un-vulcanized rubber	12-14	
Silicon Carbide	70-80	409-21-2
Other		
None		

4 .FIRST-AID MEASURES

Required Treatment:

Eyes: Remove contact lenses if present. Flush eyes thoroughly with large amounts of water, holding eyelids open. If irritation persists, seek medical attention.

Skin: Wash skin with soap and water. If irritation or other symptoms develop, seek medical attention.

Ingestion: Do not induce vomiting. Rinse mouth with water. Seek medical attention if large amount is swallowed or if you feel unwell.

Inhalation: Move to fresh air. If breathing is difficult, have qualified personnel administer oxygen. Seek medical attention if irritation or other symptoms persist.

Symptoms – Effects, Acute Delayed:

Dust may cause eye and respiratory irritation. Prolonged inhalation of high concentration of dust may cause adverse effects on the lungs. Contains titanium dioxide. Prolonged overexposure to respirable dust may increase the risk of lung cancer. Risk of cancer depends on duration and level of exposure. Exposure to dust generated from processing the base material or coatings may present additional health hazards.

5. FIRE-FIGHTING MEASURES

NFPA Ratings: Health: 1, Flammability: 1, Reactivity: 0, Other:0

Extinguishing Techniques including Equipment: Use suitable media for the surrounding fire. Do not use water on fires involving metals dusts. Use an appropriate dry powder. Firefighters should wear full emergency equipment and NIOSH approved positive pressure self-contained breathing equipment.

Chemical Hazards from Fire: These products are not flammable or 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 machined or ground.

6.ACCIDENTAL RELEASE MEASURES

Emergency Procedures: Environmental: Avoid contamination of water supplies and environmental releases. Report spills as required by authorities.


Protective Equipment: Wear appropriate respirator and protective clothing as needed to avoid eye contact and inhalation of dust.


Methods of Containment and Clean-Up: Collect dry material, avoiding creating airborne dust. Place in a suitable container for disposal.

7. HANDLING AND STORAGE

Handling: Inspect wheel prior to mounting on machine for damage. Do not use at speeds greater than product maximum rates per minute (rpm) as indicated. Use with adequate ventilation. Avoid breathing dust. Avoid eye and skin contact with grinding dust. Wear



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suitable eye protection, gloves and appropriate protective clothing. Wash thoroughly after handling. Consider potential exposure to components of the base materials or coatings being ground or cut. Refer to OSHA substance specific standards for additional work practice requirements where applicable.

Storage: No special storage required. Avoid excessive temperatures in storage. Store in a dry area

8. Exposure Controls/Personal Protection

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: 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).

9. Physical and Chemical Properties

Physical Appearance: Solid article.

Odor: May produce odor in use.

Flash Point: Does not apply.

10. Stability and Reactivity

Chemical Stability: Stable under normal conditions

Hazardous Polymerization: Hazardous polymerization does not occur.

Special Decomposition: In use, dust and decomposing odor may be generated. In most cases, the material removed from the workplace will significantly greater than the grinding wheel components. Coolants may produce other decomposition products.



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11. Toxicological Information

Acute Toxicity: This product has not been tested for its toxicity

Carcinogens:

Aluminum Oxide, Non-fibrous	<u>ACGIH</u> A4 Not Classifiable as a Human Carcinogen	<u>NIOSH</u> No Data	<u>OSHA</u> No Data	<u>IARC</u> No Data	<u>NTP</u> No Data
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Aluminum Oxide, Non-fibrous:

RTECS Number: BD1200000

Inhalation: Inhalation – Rat TCLo: 200mg/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)

12. Ecological Information

Chemical Fate

Resin bonded materials demonstrate similar degradation rates as Phenolic plastics

13. Disposal Considerations

Waste Disposal:

Use standard landfill methods consistent with applicable Federal, State, Provincial and local laws.

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.



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15. Regulatory Information

Exposure Limits/Regulatory Information

Substance Description	Units	OSHA	ACGIH	MOL
Aluminum Oxide, Non-Fibrous	MG/M3	15.0000	10.0000	10.0000
Iron oxide	MG/M3	10.0000	5.0000	5.0000
Unvulcanized rubber		0.0000	0.0000	0.0000
Silicon Carbide	MG/M3	10.0000	10.0000	10.0000

Legend:

Exposure Limit Descriptions CA PROP 65

All components of this product are registered under the regulations of the Toxic Substance Control Act.

Domestic Substance List: All components of this product are found on the Domestic Substance List.

16. Other Information

Disclaimer:

The information and the recommendations set fourth 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.