

1. IDENTIFICATION

Product Identity / Trade Name: Polishing Compound Kit

Product Use: Set of 4 polishing compound bars for use on various materials.

Restriction on Use: Use only as directed

Manufacturer: United Abrasives, Inc.
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Date of Preparation: March 31, 2015

2. HAZARD(S) IDENTIFICATION

Classification: Not classified as hazardous as defined by the GHS and OSHA 29 CFR 1910.1200.

Label Elements: None Required.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Mixtures:

Black Emery Cake

Component	CAS #	%
Paraffin	8002-74-2	25-35
Aluminum oxide	1344-28-1	1-60
Kaolin	1332-58-7	1-60
Tallow	67701-27-3	1-10

Red Rouge Polishing Compound

Component	CAS #	%
Iron oxide	1309-37-1	1-75
Aluminum oxide	1344-28-1	1-75
Tallow	67701-27-3	1-10

Tripoli Buffing Compound (Brown)

Component	CAS #	%
Silicon dioxide	7631-86-9	70-80
Tallow	67701-27-3	1-10

White Rouge Buffing Compound

Component	CAS #	%
Aluminum oxide	1344-28-1	70-80
Paraffin	8002-74-2	25-35
Tallow	67701-27-3	1-10

The specific identity and/or exact percentage has been withheld as a trade secret.

4. FIRST-AID MEASURES

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. Launder contaminated clothing before reuse.

Most important symptoms/effects, acute and delayed: Dust may cause mechanical eye and skin irritation. Dust may cause nose, throat and upper respiratory tract irritation.

Indication of immediate medical attention and special treatment, if necessary: Immediate medical attention is generally not required.

5. FIRE-FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media: Carbon dioxide, dry chemical, foam, water fog. Treat as an oil fire.

Specific hazards arising from the chemical: Fine dusts created during polishing processing may be spontaneously combustible or create a fire or dust explosion hazard. Many materials create flammable/explosive dusts or turnings when machined. Material will burn under fire conditions – treat as an oil fire. Hazardous decomposition may produce oxides of carbon and smoke.

Special protective equipment and precautions for fire-fighters: Firefighters should wear full emergency equipment and NIOSH approved positive pressure self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures: Wear appropriate protective clothing as needed to avoid eye and skin contact.

Environmental precautions: Avoid release into the environmental. Report releases as required by local, state and federal authorities.

Methods and materials for containment and cleaning up: Pick up, sweep up or vacuum and place in a container for disposal. Minimize generation of dust.

7. HANDLING AND STORAGE

Precautions for safe handling: Use only with adequate ventilation. Avoid breathing dust. Wash thoroughly after handling and use, especially before eating, drinking or smoking. Consider potential exposure to components of the base materials or coatings being machined. Refer to OSHA's substance specific standards for additional work practice requirements where applicable.

Dust generated during machining or processing may spontaneously combust or create a fire or dust explosion hazard. Use good housekeeping to prevent the accumulation of dusts around the workplace.

Conditions for safe storage, including any incompatibilities: Store in a dry location.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure guidelines:

Tallow	None Established
Paraffin	2 mg/m ³ TWA ACGIH TLV (as fume)
Aluminum oxide	5 mg/m ³ ACGIH TLV (respirable fraction) (as Al metal) 15 mg/m ³ TWA OSHA PEL (total dust) 5 mg/m ³ TWA OSHA PEL (respirable fraction)
Kaolin	2 mg/m ³ TWA ACGIH TLV (respirable) 15 mg/m ³ TWA OSHA PEL (total dust), 5 mg/m ³ TWA (respirable fraction)
Iron oxide	5 mg/m ³ TWA ACGIH TLV (respirable) 10 mg/m ³ TWA OSHA PEL (fume)
Silicon dioxide	None Established

Note: Consider also components from base materials and coatings.

Appropriate engineering controls: Use local exhaust or general ventilation as required to minimize exposure to dust and maintain the concentration of contaminants below occupational applicable limits.

Individual protection measures, such as personal protective equipment:

Respiratory protection: Use NIOSH approved respirator if exposure limits are exceeded or where dust exposures are excessive. Consider the potential for exposure to components of the coatings or base material being polished in selecting proper respiratory protection. Refer to OSHA's specific standards for lead, cadmium, etc. where appropriate. 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.

Skin protection: Avoid skin contact with dust. Follow facility requirements regarding glove use to avoid safety hazard.

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color, etc.): N Set of four premolded cake forms (red, brown, black, and white

Odor: Tallow Odor

Odor threshold: Not applicable	pH: Not applicable
Melting point/freezing point: 120-140°F	Boiling Point: Not applicable
Flash point: >300°F COC	Evaporation rate: Nil
Flammability (solid, gas): Not applicable	
Flammable limits: LEL: Not applicable	UEL: Not applicable
Vapor pressure: Not applicable	Vapor density:
Relative density: 1.7	Solubility(ies): Negligible
Partition coefficient: n-octanol/water: Not applicable	Auto-ignition temperature: Not applicable
Decomposition temperature: Not applicable	Viscosity: Not applicable

10. STABILITY AND REACTIVITY

Reactivity: Not reactive.

Chemical stability: Stable.

Possibility of hazardous reactions: None known.

Conditions to avoid: None known.

Incompatible materials: Oxidizing agents and reducing agents.

Hazardous decomposition products: Thermal decomposition may produce carbon oxides and smoke. Dust from processing or polishing could contain ingredients listed in Section 3 and other, potentially more hazardous components of the base material being sanded or coatings applied to the base material.

11. TOXICOLOGICAL INFORMATION

Routes of exposure:

Ingestion: None expected under normal use conditions. Swallowing large pieces may cause obstruction of the gastrointestinal tract.

Inhalation: Dust may cause respiratory irritation.

Eye: Dust may cause eye irritation. Dust particles may cause abrasive injury to the eyes.

Skin: None expected under normal use conditions. Rubbing product across the skin may cause mechanical irritation or abrasions.

Chronic effects from short- and long-term exposure: 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 from the material or paint/coatings being polished. Most of the dust generated during polishing is from the base material being polished and the potential hazard from this exposure must be evaluated.

Sensitization: Not expected to cause sensitization.

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

Numerical measures of toxicity: This product and its components are not acutely toxic.

Aluminum oxide: No data available

Tallow: LD50 oral rat > 2000 mg/kg, LC50 inhalation rat > 1.86 mg/L/6hr, LD50 dermal rat > 2000 mg/kg

Kaolin: No data available

Paraffin: LD50 oral rat > 5000 mg/kg, Dermal rat LD50 >2000 mg/kg

Iron oxide: LD50 oral rat > 10000 mg/kg

Silicon dioxide: LD50 oral rat > 5000 mg/kg, LC50 inhalation rat > 0.69 mg/L (analytical), LD50 dermal rabbit > 2000 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Tallow: Danio rerio LC50 > 10000 mg/L

Iron oxide: Daphnia magna EC50 > 100 mg/L/48hr

Silicon dioxide: Daphnia magna EL50 > 1000 mg/L/24hr

Paraffin: 96 hr LC50 Oncorhynchus mykiss >1000 mg/kg, 48 hr EC50 daphnia magna >1000 mg/L, 72 hr EC50

Pseudokirchnerella subcapitata >1000 mg/L

Persistence and degradability: Paraffin is inherently biodegradable,

Bioaccumulative potential: No data available. Not expected to be bioaccumulative.

Mobility in soil: No data available.

Other adverse effects: Dust generated may be hazardous to the environment.

13. DISPOSAL CONSIDERATIONS

Dispose in accordance with all applicable local, state/provincial and federal regulations. Local regulations may be more stringent than regional and national requirements. It is the responsibility of the waste generator to determine the toxicity and physical characteristics of the material to determine the proper waste identification and disposal in compliance with applicable regulations.

14. TRANSPORT INFORMATION

	UN Number	Proper shipping name	Hazard Class	Packing Group	Environmental Hazard
DOT	None	Not Regulated	None	None	
TDG	None	Not Regulated	None	None	

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code): Not applicable – product is transported only in packaged form.

Special precautions: None identified.

15. REGULATORY INFORMATION

SARA Section 311/312 Hazard Categories: Not Applicable (manufactured articles)

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: WARNING! You create dust when you cut, sand, drill or grind materials such as wood, paint, cement, masonry or metal. This dust often contains chemicals known to cause cancer, birth defects or other reproductive harm.

16. OTHER INFORMATION

NFPA Rating: Health = 1 Flammability = 0 Instability = 0
HMIS Rating: Health = 1 Flammability = 0 Physical Hazard = 0

Date Previous Revision: 12/14/12

Date This Revision: 3/31/14

Revision Summary:

12/14/12: Section 8 Exposure Limits; Comprehensive Review

3/31/14: Changed all sections. Updated format to GHS.

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 user's obligation to assure safe use of this product.