

Flexcut Carving Tools
8105 Hawthorn Drive
Erie, PA 16509
Ph:814-864-7855

6/3/11

Subject: Stropping Compound Grit Size.

Regarding the size of the abrasive used in our compounds, I believe the first and most important aspect of the request, while not unusual, needs to be addressed on subjects other than the grit size of any particular abrasive. As an example:

1. The hardness of the abrasive to a large extent determines its effectiveness. Diamonds as an example come in micron sizes the same as many other abrasives and of course you are aware of why a diamond's hardness works better than most other abrasives.
2. The porosity of the abrasive itself plays a function a part.
3. The oil absorption value of the abrasive plays an important part. Some abrasives will soak up or absorb twice the oils or greases as other abrasives.
4. The melting point of the binders used in making compound is extremely important and that's a whole subject in its own right.
5. The ratio of the abrasives to the ratio of binders used in making a compound plays a functional part. There isn't any strict formula that can be used because of the great difference between the abrasives and the binders.
6. Many compounds have more than one abrasive. And the ratio of one abrasive to another abrasive in the same formulation plays an important part.

Just to give you some condensed versions of your request, I'll make the following remarks.

When we purchase the abrasives for our products, they are not graded by grit, but rather by mesh size or screen size.

The Yellow Stropping Compound contains abrasives, with the largest mesh size being listed as (-300). That's a trade determination that simply says nothing in the abrasive is coarser than 300 grit. However, that same specification would see fines in that same abrasive going all the way down to .6 micron.



MATERIAL SAFETY DATA SHEET

May be used to comply with OSHA Hazard Communication standard
29CFR 1910.1200 Standard must be consulted for specific requirements

MSDS NO. SD-KX-10124/25

Category: Buffing Wheel Compound

Date: 9/23/10

Section I

Product Name or Number (as it appears on label)
KX-10024/KX-10025 YELLOW STROPPING COMPOUND

Health Rating: 1
Flammability Rating: 0
Reactivity Rating: 0
Hazard Rating: 0

Manufacturer's Name:

Formax Manufacturing Corporation
168 Wealthy S. W. Grand Rapids, Michigan 49503
Contact: Andrew Johnston
Contact Phone: 1-616-456-5458
Emergency Phone: 1-616-456-5458
www.formaxmfg.com

Manufacturer's D.U.N.S. No. : 00-535-4238

Proper Shipping Name: NMFC-48580 Scouring Compound (Cake, Paste or Liquid form N.O.I.) / Polishing Wheels 14924009/dc-70
Additional Hazard Classes (As Applicable): None Listed — Shipping Not Regulated by D.O.T.
Chemical Family: Organic / Inorganic Mixture Reportable Quantities: None Formula: Proprietary Formula:

Section II Composition

Chemical Name	CAS No.	OSHA Permissible Exposure limit 15 mg/M3 (Total Dust)	ACGIH TLV 10 mg/M3 (Total Dust)
ALPHA ALUMINA	1344-28-1	Not Established	Not Established
TRIGLYCERIDES	61789-97-7	Not Established	Not Established
TALLOW DERIVATIVES	67701-27-3	Not Established	Not Established
STEARIC ACID	57-11-4	Not Established	Not Established

Formax polishing & buffing compounds are formulated with abrasives surrounded in a matrix of grease binders, waxes and / or soap / water emulsions. Ingredient ratio proportions can be and are varied to meet individual buffing needs and surface conditioning. Respirable dust and debris hazards may be Created during buffing operations. Exposure limits for dust particles should not be exceeded beyond ACGIH, TLV-TWA recommend ceilings for respirable silica and/or Tripoli dust at 0.1mg/M3.

Section III Physical and Chemical Characteristics

Boiling Point: N/A	Melting Point: 131°F	Specific Gravity: NAIF
Vapor Pressure: <0.01 MM	Percent volatile by Vol.: NEGLIGIBLE	Vapor density: N/A
Evaporation Rate: NIL	Solubility in Water: PARTIALLY	Solubility in Alcohol: PARTIALLY
Solubility in other solvents: Alkaline Cleaners or Chlorinated Solvents		Appearance and odor: Solid, Premolded Cake, Waxy

Section IV Fire and Explosion Hazard Data

Flash Point: WILL NOT FLASH (Method Used) Flammable Limits: Not Established
Extinguishing Media: C.O.2., Dry Chemical, Foam, Water Fog
Special Fire Fighting Procedures: Dried Polishing Compound and Buffing Wheel Lint and Debris May Make the Mix Combustible. Treat as an Oil Fire.
Explosion Potential: None for new and unused stored material.

Section V Reactivity Data

Stability: Unstable: ___ Stable: Condition to Avoid: Using under conditions of insufficient dust collecting systems, or Ventilation
Incompatibility (Materials to Avoid): Strong Oxidizers or Reducing Agen
Hazardous Decomposition Products: On combustion Hydrocarbons may form to produce smoke, carbon monoxide, carbon dioxide.

Hazardous Polymerization: Will not Occur: May Occur: ___

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MSDS: SD-KX-10124/25

Section VI Health, First Aid and Medical

Primary Route(s) of Entry	Acute and Chronic Health Effects and Effects of Overexposure.	First aid and Medical Information
Inhalation (during use)	Acute - May cause coughing, shortness of breath (Dust) Chronic - May affect breathing capacity (Dust)	Remove to fresh air apply artificial respiration as needed. Obtain First Aid or Medical assistance.
Ingestion	May cause gastrointestinal disturbances, constipation or diarrhea.	Obtain First Aid or Medical assistance if needed.
Skin Contact & Absorption	Irritation of the skin may occur due to mechanical/chemical action or dermatitis reaction.	Wash skin with soap and water. Obtain First Aid and/or Medical assistance if symptoms persist.
Eye	Dust or buffing debris may irritate or damage the eyes without protection. Always wear safety glasses and/or face shield helmets when performing buffing operations. See OSHA 29cfr1910.122 (Safety Glasses)	Wash with large amounts of water- obtain First Aid or Medical assistance if needed.
Other potential health risks (Prolonged inhalation of dust particles may result in disabling pulmonary fibrosis)	Symptoms might include deposits of materials in eyes, ears, nasal passages, irritation of mucus membranes. Warning: Do not breath dust of compounds containing abrasive materials without following OSHA safety and health standards for dust accumulation collection.	Regular constant vigilance in Safety and Maintenance check-up programs are advised to reduce risks associated with buffing and polishing operations.

Section VII

Carcinogenicity:	NTP Not Reported	IARC Not Reported	OSHA Not Reported
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Section VIII Spill or Leak Procedures

Steps to be taken in case material is released or spilled: sweep into containers; storage of buffing wheel and compound debris may contain combustible lint.
Waste disposal method: Sweep up and Incinerate or dispose in accordance with Local , State and Federal regulations.
CERCLA (Superfund) reportable quantity (in LBS.) None
RCRA Hazardous waste No. (40 CFR 261.33) None
Volatile Organic Compound (VOC) (as packaged, minus water) N/A

Section IX Special Protection Information

Respiratory protection (specify type): OSHA 24 CFR/134 NIOSH/MSHA Approved respirators for particulates from buffing debris.
Ventilation: Local Exhaust: General Room Ventilation
Mechanical (General): Recommend venting to dust collectors
Protective Gloves: Wear heavy duty work type gloves for hand protection.
Eye Protection: Wear Safety Glasses and/or Face shield helmets. See OSHA 29 CFR 1910.122 (Safety Glasses)
Other Protective Equipment: Protective work clothing, body apron or belly pads, safety shoes, as needed.
Hearing Protection: Avoid prolonged excessive noise levels created by buffing and polishing operations. See: OSHA 29 CFR 1910.215 (Hearing Protection)

Section X Special Precautions

Precautions to be taken in handling and storing: Handle with adequate ventilation for nuisance dust when using. See OSHA 29 CFR 1910.24 (Ventilation) and 29 CFR 1910.1000 (Air Contaminants). Other precautions: Keep liquids from freezing. Store away from excessive heat.

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



** NAIF = no applicable information found

*** N/A= not applicable

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