



2701 4<sup>th</sup> Ave SW  
Willmar, MN 56201

## 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. Z12455 Green Stainless

Category: BUFFING COMPOUND

Date: 6/18/10

### Section I

Product Name or Number (as it appears on label)  
Z12455 – Green Stainless Steel Rouge

24 Hour Emergency Only Phone: 800-255-3924  
Information Phone: 800-328-8900 or 320-235-2288  
Fax: 320-235-2297

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

Proper Shipping Name: **NMFC-48580 Scouring Compound (Cake, Paste or Liquid form N.O.I.) / Polishing Wheels 14924009/clc-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 Abrasive/Grease Mixture**

### Section II Composition

Chemical Name	Common Name	CAS No.	OSHA Permissible Exposure limit	ACGIH TLV
			15 mg/M3 (Total Dust)	10 mg/M3 (Total Dust)
CHROME OXIDE	GREEN ROUGE	1308-38-9		
ALPHA ALUMINA	ALUMINA - A/O CALCINED	1344-28-1		
STEARIC ACID	ANIMAL FATS HYDROGENATED	57-11-4		
TALLOW	TALLOW GLYCERIDE	617-89-97-7		

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: 145°F Specific Gravity: **NAIF**  
Vapor Pressure: **N/A** Percent volatile by Vol.: 0 Vapor density: **NAIF**  
Evaporation Rate: NIL Solubility in Water: Negligible Solubility in Alcohol: **Moderate**  
Solubility in other solvents: **Alkaline Cleaners or Chlorinated Solvents** Appearance and odor: Premolded Cake Form/Green Color/Tallow Odor

### Section IV Fire and Explosion Hazard Data

Flash Point: N/A (Method Used) C.O.C. 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 VI Reactivity Data

Stability: Unstable: \_\_\_\_ **Stable: X** Condition to Avoid: Using under conditions of insufficient dust collecting systems, or Ventilation

Incompatibility (Materials to Avoid): Strong Oxidizers or Reducing Agents

Hazardous Decomposition Products: On combustion Hydrocarbons may form to produce smoke, carbon monoxide, carbon dioxide.

Hazardous Polymerization: **Will not Occur: X** May Occur: \_\_\_\_



\*\* NAIF = no applicable information found

\*\*\* N/A= not applicable

Form #: Z12455 Green Stainless

## Section V Health, First Aid and Medical Data

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. <b>Warning:</b> 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 VI

Carcinogenicity:	NTP Not Reported	IARC Not Reported	OSHA Not Reported
------------------	---------------------	----------------------	----------------------

## Section VII 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 VIII 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 IX 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, Northern 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

Form #: Z12455 Green Stainless

page 2



2701 4<sup>th</sup> Ave SW  
Willmar, MN 56201

## 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. Z12450 Black Emery

Category: BUFFING COMPOUND

Date: 6/18/10

### Section I

Product Name or Number (as it appears on label)  
Z12450 – Black Emery Buffing Compound in Polishing Kit

24 Hour Emergency Only Phone: 800-255-3924  
Information Phone: 800-328-8900 or 320-235-2288  
Fax: 320-235-2297

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

Proper Shipping Name: **NMFC-48580 Scouring Compound (Cake, Paste or Liquid form N.O.I.) / Polishing Wheels 14924009/clc-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 Abrasive/Grease Mixture**

### Section II Composition

Chemical Name	Percentage Range		Common Name	CAS No.	OSHA Permissible Exposure limit	ACGIH TLV
					15 mg/M3 (Total Dust)	10 mg/M3 (Total Dust)
TRIGLYCERIDES	12.00	10.00	ANIMAL FATS	61789-97-7		
TALLOW	15.00	8.00	TALLOW GLYCERIDES	67701-27-3		
PETROLATUM	5.00	2.00	PETROLATUM WAX	8002-74-2		
ALPHA ALUMINA	55.00	65.00	ALUMINUM OXIDE	1344-28-1		
HYDRATED/SILICATE	13.00	15.00	KAOLIN	1332-58-7		

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: 145°F Specific Gravity: **NAIF**  
Vapor Pressure: **N/A** Percent volatile by Vol.: 0 Vapor density: **NAIF**  
Evaporation Rate: NIL Solubility in Water: Negligible Solubility in Alcohol: **Moderate**  
Solubility in other solvents: **Alkaline Cleaners or Chlorinated Solvents** Appearance and odor: Premolded Cake Form/Black  
Color/Tallow Odor

### Section IV Fire and Explosion Hazard Data

Flash Point: N/A (Method Used) C.O.C. 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 VI Reactivity Data

Stability: Unstable: \_\_\_\_ Stable: **X** Condition to Avoid: Using under conditions of insufficient dust collecting systems, or Ventilation  
Incompatibility (Materials to Avoid): Strong Oxidizers or Reducing Agents  
Hazardous Decomposition Products: On combustion Hydrocarbons may form to produce smoke, carbon monoxide, carbon dioxide.  
Hazardous Polymerization: **Will not Occur: X** May Occur: \_\_\_\_



\*\* NAIF = no applicable information found

\*\*\* N/A= not applicable

Form #: Z12450 Black Emery

## Section V Health, First Aid and Medical Data

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. <b>Warning:</b> 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 VI

Carcinogenicity:	NTP Not Reported	IARC Not Reported	OSHA Not Reported
------------------	---------------------	----------------------	----------------------

## Section VII 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 VIII 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 IX 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, Northern Factory Sales, Inc. 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

Form #: Z12450 Black Emery

page 2



2701 4<sup>th</sup> Ave SW  
Willmar, MN 56201

# 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. Z12450-Brown Tripoli

Category: POLISHING COMPOUND

Date: 6/18/10

## Section I

**Product Name or Number (as it appears on label)**  
**Z12450 - Brown Tripoli Buffing Compound in polishing kit**

**24 Hour Emergency Only phone: 1-800-255-3924**  
**Information Phone: 800-328-8900 or 320-235-2288**  
**Fax: 320-235-2297**

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

Proper Shipping Name: **NMFC-48580 Scouring Compound (Cake, Paste or Liquid form N.O.I.) / Polishing Wheels 14924009/clc-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	Percentage Range	Common Name	CAS No.	OSHA Permissive Exposure limit	ACGIH TLV
				15 mg/M3 (Total Dust)	10 mg/M3 (Total Dust)
TRIGLYCERIDES	12.00 7.00	ANIMAL FATS	61789-97-7		
TALLOW	11.00 10.00	TALLOW GLYCERIDES	67701-27-3		
PETROLATAUM	5.00 3.00	PETROLATUM WAX	8002-74-2		
SILICON DIOXIDE	65.00 80.00	TRIPOLI ABRASIVE	7631-86-9		

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: over 300 °F Melting Point: 125/145°F Specific Gravity: **Not Established**  
Vapor Pressure: **N/A** Percent volatile by Vol.: 0 Vapor density: **NAIF**  
Evaporation Rate: NIL Solubility in Water: Emusifiable Solubility in Alcohol: **Moderate**  
Solubility in other solvents: **Alkaline Cleaners or Chlorinated Solvents** Appearance and odor: BROWN COLOR / CAKE FORM /  
TALLOW ODOR

## Section IV Fire and Explosion Hazard Data

Flash Point: >350 °F (Method Used) C.O.C. 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 VI Reactivity Data

Stability: Unstable: \_\_\_\_ Stable: **X** Condition to Avoid: Using under conditions of insufficient dust collecting systems, or Ventilation  
Incompatibility (Materials to Avoid): Strong Oxidizers or Reducing Agents  
Hazardous Decomposition Products: On combustion Hydrocarbons may form to produce smoke, carbon monoxide, carbon dioxide.  
Hazardous Polymerization: **Will Not Occur: X** May Occur: \_\_\_\_



\*\* NAIF = no applicable information found

\*\*\* N/A= not applicable

Form #: Z12450 Brown Tripoli

## Section V Health, First Aid and Medical Data

Primary Route(s) of Entry Inhalation (during use)	Acute and Chronic Health Effects and Effects of Overexposure. Acute - May cause coughing, shortness of breath (Dust) Chronic - May affect breathing capacity (Dust)	First aid and Medical Information 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. <b>Warning:</b> 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 VI

Carcinogenicity:	NTP Not Reported	IARC Not Reported	OSHA Not Reported
------------------	---------------------	----------------------	----------------------

## Section VII Spill or Leak Prodecures

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 VII 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 IX 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, Northern Factory Sales, Inc. 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

Form #: Z12450 Brown Tripoli