

2701 4th 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 White Diamond

Category: BUFFING COMPOUND

Date: 6/18/10

Section I

Product Name or Number (as it appears on label) Z12450. White Diamond 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	OSHA Permissive CAS No. Exposure	ACGIH limit TLV
			15 mg/M∃ (Total Dust)	3 10 mg/M3 (Total Dust)
ALPHA ALUMINA	73.00 78.00) ALUMINA - A/O CALCINED	1344-28-1	
TRIGLYCERIDES	20.00 13.00	ANIMAL FAT 61789	9-97-7	
TALLOW	7.00 9.00	TALLOW GLYCERIDE	67701-27-3	

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

 Vapor Pressure:
 N/A
 Percent volatile by Vol.:
 O

 Evaporation Rate:
 NIL
 Solubility in Water:
 Negligible

 Solubility in other solvents:
 Alkaline Cleaners or Chlorinated Solvents

Specific Gravity: NAIF Vapor density: NAIF Solubility in Alcohol: Moderate Appearance and odor: Premolded Cake Form/White 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 Debr is 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:

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** NAIF = no applicable information found *** N/A= not applicable Form #: Z12450 White Diamond

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MSDS No. Z12450 White Diamond

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.
	Dust or buffing debris may irritate or damage the eyes without Wash w protection. Always wear safety glasses and/or face shield helmets fforming buffing operations. IA 29cfr1910.122 (Safety Glasses)	ith 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. <u>Warning:</u> Do not breath dust of compounds containing abrasive materials without following OSHA safety and health standards operation for dust accumulation collection	Regular constant vigilance in Safety and Maintenance check-up programs are advised to reduce risks associated with buffing and polishing ns.
	Section VI	

NTP Carcinogencity:

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.) RCRA Hazardous waste No. (40 CFR 261.33)

None 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, 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.

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MATERIAL SAFETY DATA SHEET

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 Com		Common Name CAS No	Common Name CAS No.		Permissive 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 O XIDE	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

Melting Point: 145°F Boiling Point: N/A Vapor Pressure: N/A Percent volatile by Vol.: O Evaporation Rate: NIL Solubility in Water: Negligible Solubility in other solvents: Alkaline Cleaners or Chlorinated Solvents

Specific Gravity: NAIF Vapor density: NAIF Solubility in Alcohol: Moderate 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 Debr is 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 Incompatibility (Materials to Avoid): Str Hazardous Decomposition Products: 0	rong Oxidizers or Redu	cing Agents	6		ing systems, or Ventilation oxide. carbon dioxide.
Hazardous Polymerization:	Will not Occur:	<u>x</u>	May Occur:	_	Northern
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					MSDS No. Z12450 Bla

ack Emery

Section V Health, First Aid and Medical Data

Acute and Chronic Health Effects and Effects of Overexposure.

First aid and Medical Information

Inhalation (during use)	Acute - May cause coughing, shortness Chronic - May affect breathing capacity		Remove to fresh air apply artificial respiration as needed. Obtain First Aid or Medical assistance.			
Ingestion	May cause gastrointestinal disturbance	s, constipation or diarrhea.	Obtain First Aid or Medical assistance if needed.			
Skin Contact & Absorption	Irritation of the skin may occur due to maction or dermatitis reaction.	echanical/chemical	Wash skin with soap and water. Obtain First Aid and/or Medical assistance if symptoms persist.			
	Dust or buffing debris may irritate or da protection. Always wear safety glasses n performing buffing operations. OSHA 29cfr1910.122 (Safety Glasses)		ith large amounts of water- obtain First Aid or Medical assistance if needed.			
Other potential health ris (Prolonged inhalation of dust particles may result disabling pulmonary fibro	nasal passages, irritation of mucus mer in <u>Warning:</u> Do not breath dust of compo	nbranes. unds containing abrasive	Regular constant vigilance in Safety and Maintenance check-up programs are advised to reduce risks associated with buffing and polishing ns.			
		Section VI				
Carcinogencity: NT Not	P IARC Reported Not Reporte	OSHA Not Report	ted			
	Section VII	ipill or Leak Procedu	Ires			
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) Volatile Organic Compound (VOC) (as packaged, minus water)N/A						
	Section VIII Spe	cial Protection Infor	mation			
Ventilation: Loc	becify type): OSHA 24 CFR/134 NIOSH/MSH al Exhaust: General Room Ve shanical (General): Recommend venti		ulates from buffing debris.			
Eye Protection: Wear Sa Other Protective Equipm	heavy duty work type gloves for hand protection ety Glasses and/or Face shield helmets. See ent: Protective work clothing, body apron or be	OSHA 29 CFR 1910.122 (Safet lly pads, safety shoes, as needed	J.			
Hearing Protection: Avoid			See: OSHA 29 CFR 1910.215 (Hearing Protection)			
	Section IX	Special Precaution	5			
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.						
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MATERIAL SAFETY DATA SHEET

MSDS NO. Z12450-Brown Tripoli

2701 4th Ave SW Willmar, MN 56201

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

Category: POLISHING COMPOUND

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	Percentag	e Range	Common Name	OSHA Permissive ACGIH CAS No. Exposure limit TLV		
				15 mg/M 3 10 mg/M 3 (Total Dust) (Total Dust)		
TRIGLYCERIDES	12.00	7.00	ANIMAL FAT S	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		

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Section III Physical and Chemical Characteristics

 Boiling Point:
 over 300 °F
 Melting Point:
 125/145°F

 Vapor Pressure:
 N/A
 Percent volatile by Vol.:
 O

 Evaporation Rate:
 NIL
 Solubility in Water:
 Emusifiable

 Solubility in other solvents:
 Alkaline Cleaners or Chlorinated Solvents

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Specific Gravity: Not Established Vapor density: NAIF Solubility in Alcohol: Moderate Appearance and odor: BROWN COLOR / CAKE FORM / TALLOW

Section IV Fire and Explosion Hazard Data

Flash Point: >350 ° F

Flammable Limits: Not Established

350 ° F (Method Used) C.O.C. Flammable Limits: Not Est

Extinguishing Media: C.O.2 ., Dry Chemical, Foam, Water Fog.

Special Fire Fighting Procedures: Dried Polishing Compound and Buffing Wheel Lint and Debr is 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:

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** NAIF = no applicable information found
 *** N/A= not applicable
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Section V Health, First Aid and Medical Data

ry Acute and Chronic Health Effects and Effects of Overexposure.

First aid and Medical Information

Inhalation (during use)		coughing, shortness of bi t breathing capacity (Dust	Remove to fresh air apply artificial respiration as needed. Obtain First Aid or Medical assistance.	
Ingestion	May cause gastroir	ntestinal disturbances, con	Obtain First Aid or Medical assistance if needed.	
Skin Contact & Absorption	Irritation of the skin action or dermatitis	may occur due to mechar reaction.	Wash skin with soap and water. Obtain First Aid and/or Medical assistance if symptoms persist.	
		wear safety glasses and/or ations.		with large amounts of water- obtain first aid or medical assistance if needed.
(Prolonged inhalation of dust particles may result	Other potential health risks (Prolonged inhalation of dust particles may result in disabling pulmonary fibrosis.) Symptoms might include deposits nasal passages, irritation of mucc <u>Warning:</u> Do not breath dust of or materials without following OSHA for dust accumulation collection			Regular constant vigilance in Safety and Maintenance check-up programs are advised to reduce risks associated with buffing and polishing tions.
		Sec	tion VI	
Carcinogencity: NT Not	P Reported	IARC Not Reported	OSHA Not Reported	A
		Section VII Spill	or Leak Prodec	ures
Waste disposal method: CERCLA (Superfund) re RCRA Hazardous waste	Sweep up and Incinerate of portable quantity (in LBS.) No. (40 CFR 261.33) Ind (VOC) (as packaged, r	or dispose in accordance v No No minus water)N/A	vith Local , State and Fe ne ne	
	Sect	tion VII Special	Protection Info	ormation
Ventilation: Loc Mea Protective Gloves: Wear Eye Protection: Wear Sa Other Protective Equipm	al Exhaust: chanical (General): heavy duty work type glove fety Glasses and/or Face ent: Protective work clothir	General Room Ventilation Recommend venting to de es for hand protection. shield helmets. See OSH/ ng, body apron or belly pad	n dust collectors A 29 CFR 1910.122 (Sa Is, safety shoes, as need	
		Section IX Sp	ecial Precautio	ons
		ndle with adequate ventila tions: Keep liquids from fr		hen using. See OSHA 29 CFR 1910.24 (Ventilation) and 29 n excessive heat.
				e as of the date hereof; however, Northern Factory Sales, endation, and assumes no liability to any user thereof.
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