HARBOR FREIGHT TOOLS

Quality Tools at Ridiculously Low Prices

SAFETY DATA SHEET

Page 1 of 5 **HFT-96776**

Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards

SDS Revision: 1.1

SDS Revision Date: 7/29/2015

1. PRODUCT & COMPANY IDENTIFICAT

	1: I RODOOT & COMIT ANTI IDENTIFICATION				
1.1	Product Name:	1/4 LB BLUE POLISHING COMPOUND			
1.2	Chemical Name:	Aluminum Oxide			
1.3	Synonyms:	P/N 96776			
1.4	Trade Names:	Harbor Freight Tools USA, Inc.			
1.5	Product Uses & Restrictions:	Buffing Compound			
1.6	Distributor's Name:	Harbor Freight Tools USA, Inc.			
1.7	Distributor's Address:	26541 Agoura Road, Calabasas, CA 91302 USA			
1.8	Emergency Phone:	CHEMTREC: +1 (703) 527-3887 / +1 (800) 424-9300 (CCN 676687)			
1.9	Business Phone / Fax:	+1 (805) 388-1000			
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2. HAZARDS IDENTIFICATION

This product is classified as a HAZARDOUS SUBSTANCE but not as DANGEROUS GOODS according to the classification criteria of NOHSC: 1088 (2004) and ADG Code (Australia).

WARNING! MAY CAUSE AN ALLERGIC SKIN REACTION. MAY BE HARMFUL IF INHALED.

Classification: Skin Sens. 1B; Acute Tox. Inh. 5

Hazard Statements (H): H317 – May cause an allergic skin reaction. H333 – May be harmful if inhaled.

Precautionary Statements (P): P261 – Avoid breathing fume/mist/vapors/spray. P272 –

Contaminated work clothing should not be allowed out of the workplace. P280 – Wear protective gloves/protective clothing/ eye protection/ face protection. P302+P352 – IF ON SKIN: Take off immediately all contaminated clothing. Rinse with water or shower. P333 + P313 – If skin irritation or rash occurs: get medical advice/attention. P304+P312 – Call a POINSON CENTER/doctor if you



3. COMPOSITION & INGREDIENT INFORMATION

contents/container to a licensed treatment, storage or disposal facility (TSDF).

feel unwell. P321 – Specific treatment: see Section 4 of this Safety Data Sheet. P101 – If medical advice is needed, have product container or label on hand. P102 – Keep out or reach of children. P362+ P364 – Take off contaminated clothing and was before reuse. P501 – Dispose of

					EXPOSURE LIMITS IN AIR (mg/m³)								
					AC	GIH		NOHSC			OSHA		i
					pp	m		ppm			ppm		1
							ES-	ES-	ES-				
CHEMICAL NAME(S)	CAS No.	RTECS No.	EINECS No.	%	TLV	STEL	TWA	STEL	PEAK	PEL	STEL	IDLH	OTHER
ALUMINUM OXIDE	1344-28-1	BD1200000	215-691-6	60-100	(10)	NA	NF	NF	NF	(10)	NA	NA	
ALUMINUM OXIDE	Skin Sens. 1B;	Acute Tox. Inh. 5	5; H317, H333										
TALLOW	61789-97-7	NA	263-099-1	10-30	NA	NA	NF	NF	NF	NA	NA	NA	
TALLOW													
CLYCEDIDES C44.40	67701-27-3	NA	266-945-8	5-10	NA	NA	NF	NF	NF	NA	NA	NA	
GLYCERIDES, C14-18													

			4. FIRST AID MEASURES
4.1	First Aid:	Ingestion:	DO NOT INDUCE VOMITING. Contact ChemTrec at +1 (703) 527-3887 or the nearest Poison Control Center or local emergency telephone number for assistance and instructions. Seek immediate medical attention. If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the risk of aspiration.
		Eyes:	Flush eyes thoroughly with copious amounts of water for at least 15 minutes, holding eyelid(s) open to ensure complete flushing. If irritation persists, seek immediate medical attention.
		Skin:	Remove contaminated clothing and wash affected areas with soap and water. If irritation persists, seek prompt medical attention. Do not wear contaminated clothing until after it has been properly cleaned.
		Inhalation:	Remove victim to fresh air at once. If breathing is difficult, administer supplemental oxygen and seek immediate medical attention. If breathing stops, perform artificial respiration.
4.2	Effects of Exposure:	Ingestion:	If product is swallowed, may cause nausea, vomiting and/or diarrhea.
		Eyes:	This product can cause transient mild eye irritation with short-term contact with liquid sprays or mists.
		Skin:	This product can cause mild, transient skin irritation with short-term exposure.
		Inhalation:	Exposure may cause respiratory tract irritation in some sensitive individuals.
4.3	Symptoms of Overexposure:	Eyes:	Overexposure in eyes may cause redness, itching and watering (risk of serious damage to eyes). Contact may cause serious eye irritation including stinging, watering, redness.
		<u>Skin</u> :	Prolonged contact with skin may result in bleaching and irritation of skin. The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) in some sensitive individuals. Symptoms of skin overexposure may include redness, itching, and irritation of affected areas.
4.4	Acute Health Effects:		itation to eyes. Moderate irritation to skin near affected areas. Acute health hazards may be delayed. Most nptoms include irritating properties to eyes, respiratory system and skin.

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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision: 1.1 SDS Revision Date: 7/29/2015 4. FIRST AID MEASURES – cont'd 4.5 Chronic Health Effects: No harmful or chronic health effects are expected to occur from a single accidental ingestion. These ingredients may be irritating to skin and mucous membrane of the eye and respiratory system. Overexposure may trigger asthma-like symptoms in some sensitive individuals. May also induce skin sensitization and respiratory hypersensitivity. Possible allergic dermatitis. 4.6 Target Organs: Eyes, Skin, Respiratory System, Central Nervous System (CNS), Kidneys 4.7 Medical Conditions Pre-existing dermatitis, other skin conditions, and disorders of the **HEALTH** 1 Aggravated by Exposure target organs (eyes, skin) or impaired kidney function may be more **FLAMMABILITY** 1 susceptible to the effects of this substance. PHYSICAL HAZARDS 0 PROTECTIVE EQUIPMENT X LUNGS **EYES** SKIN 5. FIREFIGHTING MEASURES Fire & Explosion Hazards: None for new and unused store material. Will not burn, but decomposition may be caused by heat, will release oxygen Dried polishing compound and buffing wheel lint and debris may make the mix combustible. Treat as an oil fire. 5.2 Extinguishing Methods: Foam, CO₂, Water Fog, Dry Chemical 5.3 Firefighting Procedures: Fight fires as for surrounding materials. Firefighters should wear a MSHA/NIOSH approved or equivalent self-contained breathing apparatus (SCBA) and protective clothing. Fire should be fought from a safe distance. Keep containers cool until well after the fire is out. Cool containers with water spray to prevent pressure build-up, auto-ignition or explosion. Prevent runoff from fire control or dilution from entering sewers, drains, drinking water supply, or any natural waterway. **ACCIDENTAL RELEASE MEASURES** 6.1 Spills Before cleaning any spill or leak, individuals involved in spill cleanup must wear appropriate Personal Protective Equipment. For small spills (e.g., < 1 gallon (3.8 L)) wear appropriate personal protective equipment (e.g., goggles, gloves). Maximize ventilation (open doors and windows. Remove spilled material with absorbent material and place into appropriate closed container(s) for disposal. Dispose of properly in accordance with local, state and federal regulations. Wash all affected areas and outside of container with plenty of warm water and soap. Remove any contaminated clothing and wash thoroughly before reuse. For <u>large spills</u> (e.g., ≥ 1 gallon (3.8 L)), deny entry to all unprotected individuals. Dike and contain spill with inert material (e.g., sand or earth). Transfer liquid to containers for recovery or disposal and solid diking material to separate containers for proper disposal. Remove contaminated clothing promptly and wash affected skin areas with soap and water. Keep spills and cleaning runoffs out of drains, municipal sewers and open bodies of water. 7. HANDLING & STORAGE INFORMATION Use normal hygiene practices. Avoid direct skin contact. Wash hands thoroughly after using this product and before Work & Hygiene Practices: eating, drinking, or smoking. Good personal hygiene practices, such as washing any skin contact areas and removing contaminated clothing, are recommended. 7.2 Storage & Handling: Keep away from sources of heat. 7.3 Special Precautions: Follow all instructions on product label. Keep container closed when not in use. Keep this and all chemicals out of reach of children. 8. EXPOSURE CONTROLS & PERSONAL PROTECTION Exposure Limits: NOHSC OSHA OTHER ppm (mg/m³) TLV STEL **ES-STEL** STEL IDLH CHEMICAL NAME(S) TWA **PEAK** PEL **ALUMINUM OXIDE** (10) NA NF (10) NA NA 8.2 Ventilation & Engineering General mechanical (e.g., fans) or natural ventilation is sufficient when this product is in use. Use local or general Controls: exhaust ventilation to effectively remove and prevent buildup of vapors or mist generated from the handling of this product. Ensure appropriate decontamination equipment is available (e.g., sink, safety shower, eye-wash station) 8.3 Respiratory Protection: No special respiratory protection is required under typical circumstances of use or handling. In instances where mist or vapors of this product are generated, and respiratory protection is needed, use only protection authorized by 29 CFR §1910.134, applicable U.S. State regulations, or the Canadian CAS Standard Z94.4-93 and applicable standards of Canadian Provinces, EC member States, or Australia. 8 4 Eve Protection: Wear protective eyewear (e.g., safety glasses with side-shield) at all times when handling this product. Always use protective eyewear when cleaning spills or leaks. Wear goggles and/or face shield if splashing or spraying is anticipated. Contact lenses pose a special hazard; soft lenses may absorb and concentrate irritants. Have suitable eye wash water available. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU)

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	8 1	EXPOSURE CONTROLS & PERSONAL PROTECTION – cont'd			
3.5	Hand Protection:	Use gloves constructed of chemical-resistant materials such as neoprene or heavy nitrile rubber if frequent or prolonged contact is expected. If necessary, refer to U.S. OSHA 29 CFR §1910.138,			
8.6	Body Protection:	the appropriate standards of Canada, or the EU member states. Avoid prolonged and/or repeated skin contact. Use clean and impervious protective clothing (e.g., neoprene or Tyvek®) if splashing or spraying conditions are present. Protective clothing should include long-sleeves, apron, boots and additional facial protection. If necessary, refer to appropriate standards of Canada, the EU member states, or U.S. OSHA.			
		9. PHYSICAL & CHEMICAL PROPERTIES			
9.1	Appearance:	Brown paste			
9.2	Odor:	Solvent odor			
9.3	Odor Threshold:	NA			
9.4	pH:	NA NA			
9.5	Melting Point/Freezing Point:	NA NA			
9.6	Initial Boiling Point/Boiling Range:	NA NA			
9.7	Flashpoint:	91 °C (195 °F) PMCC			
9.8	Upper/Lower Flammability	LEL 0.7 Vol% / UEL 5.0 Vol%			
9.9	Limits: Vapor Pressure:				
9.9	Vapor Pressure: Vapor Density:	5mm Hg at 100 °F			
9.10	Relative Density:	> 1 1.2			
9.11	Solubility:	Slight			
9.13	Partition Coefficient (log P _{ow}):	NA			
9.14	Autoignition Temperature:	210 °C (410 °F)			
9.15	Decomposition Temperature:	NA NA			
9.16	Viscosity:	NA NA			
9.17	Other Information:	NA NA			
	l	1.4.			
		10. STABILITY & REACTIVITY			
10.1	Stability:	Stable under normal conditions of use.			
10.2	Hazardous Decomposition	Carbon monoxide, carbon dioxide and irritant vapors or gases.			
10.3	Products: Hazardous Polymerization:	· · · · · · · · · · · · · · · · · · ·			
10.3	Conditions to Avoid:	Will not occur.			
10.4		Strong oxidizers.			
	Incompatible Substances:	Strong oxidizing agents, strong acids and bases.			
	Incompatible Substances:				
10.5	Routes of Entry:	11. TOXICOLOGICAL INFORMATION			
10.5		11. TOXICOLOGICAL INFORMATION Inhalation: YES Absorption: YES Ingestion: YES			
10.5 11.1 11.2	Routes of Entry:	11. TOXICOLOGICAL INFORMATION Inhalation: YES Absorption: YES Ingestion: YES This product has not been tested on animals to obtain toxicological data. There are toxicology data for the component			
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14. TRANSPORTATION INFORMATION						
The basic description (ID Number, proper shipping name, hazard class & division, packing group) is shown for each mode of transportation. Additional						
desc	riptive information may	by be required by 49 CFR, IATA/ICAO, IMDG and the CTDGR.	<u>_</u>			
14.1	49 CFR (GND):	NOT REGULATED				
14.2	IATA (AIR)*: IMDG (OCN):	NOT REGULATED				
14.3	TDGR (Canadian GND):	NOT REGULATED NOT REGULATED				
14.5	ADR/RID (EU):	NOT REGULATED NOT REGULATED				
14.6	SCT (MEXICO):	NOT REGULATED				
14.7	ADGR (AUS):	NOT REGULATED				
			<u>.</u>			
		15. REGULATORY INFORMATION				
15.1	SARA Reporting Requirements:	This product contains <u>Alumina (Aluminum Oxide)</u> , a substance subject to SARA requirements.	Title III, Section 313 reporting			
15.2	SARA Threshold Planning Quantity:	There are no specific Threshold Planning Quantities for the components of this product.	<u>.</u>			
15.3	TSCA Inventory Status:	The components of this product are listed on the TSCA Inventory or are otherwise exen	npt.			
15.4	CERCLA Reportable Quantity (RQ):					
15.5	Other Federal Requirements:		Priority Pollutants under the Clea			
15.6	Other Canadian Regulations:	This product has been classified according to the hazard criteria of the CPR and the Sall of the information required by the CPR. The components of this product are DSL/NDSL. None of the components of this product are listed on the Priorities Substant WHMIS D2B (Other Toxic Effects).	listed on the			
15.7	State Regulatory Information:	Alumina (Aluminum Oxide) is found on the following state criteria list: Massachusetts Minnesota Hazardous Substances List (MN), New Jersey Right-to-Know List (Next. Exposures List (WA). No other ingredients in this product, present in a concentration of 1.0% or greater, are criteria lists: California Proposition 65 (CA65), Delaware Air Quality Management List (FL), Massachusetts Hazardous Substances List (MA), Michigan Critical Substances Substances List (MN), New Jersey Right-to-Know List (NJ), New York Hazardous Su Right-to-Know List (PA), Washington Permissible Exposures List (WA), Wisconsin Hazardous Substances List (WA), Wisconsin Hazardous Subst	J), and Washington Permissible listed on any of the following statest (DE), Florida Toxic Substance es List (MI), Minnesota Hazardou abstances List (NY), Pennsylvani			
15.8	Other Requirements:	The primary components of this product are not listed in Annex I of EU Directive 67/548 Harmful (Xn). Risk Phrases (R): 21 – Harmful in contact with skin. Safety Phrases (20/21-24/25 – Keep away from children. When using, do not eat, drink or smoke. A with skin and eyes.	B/EEC: (S): 2-23-24-			
		16. OTHER INFORMATION				
16.1	Other Information:	WARNING! MAY CAUSE AN ALLERGIC SKIN REACTION. MAY BE HARMFUL IF Avoid breathing fume/mist/vapors/spray. Contaminated work clothing should not b Wear protective gloves/eye protection. IF ON SKIN: Take off immediately all contamin shower. If skin irritation or rash occurs: get medical advice/attention. Call a POIN unwell. Specific treatment: see Section 4 of this Safety Data Sheet. If medical advice i or label on hand. Keep out or reach of children. Take off contaminated clothing and w ventilated place. Keep cool. KEEP OUT OF REACH OF CHILDREN.	e allowed out of the workplace ated clothing. Rinse with water o ISON CENTER/doctor if you fee is needed, have product containe			
16.2	Terms & Definitions:	See last page of this Safety Data Sheet.				
16.3	Disclaimer:	This Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Stand government regulations must be reviewed for applicability to this product. To the best Tools USA, Inc.'s knowledge, the information contained herein is reliable and accuracy, suitability or completeness is not guaranteed and no warranties of any type provided. The information contained herein relates only to the specific product(s). It other materials, all component properties must be considered. Data may be change consult the latest edition.	st of ShipMate s & Harbor Freigh curate as of this date; however e, either expressed or implied, and f this product(s) is combined with			
16.4	Prepared for:	Harbor Freight Tools USA, Inc. 26541 Agoura Road Calabasas, CA 91302 USA Tel: +1 (805) 388-1000 http://www.harborfreight.com				
16.5	Prepared by:	ShipMate, Inc. P.O. Box 787 Sisters, Oregon 97759-0787 USA Tel: +1 (310) 370-3600 Fax: +1 (310) 370-5700 http://www.shipmate.com				

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DEFINITION OF TERMS

A large number of abbreviations and acronyms appear on a SDS. Some of these that are commonly used include the following:

GENERAL INFORMATION:

CAS No.	Chemical Abstract Service Number		
EXPOSURE LIMITS IN AIR:			
ACGIH	American Conference on Governmental Industrial Hygienists		
С	Ceiling Limit		
ES	Exposure Standard (Australia)		
IDLH	Immediately Dangerous to Life and Health		
OSHA	U.S. Occupational Safety and Health Administration		
PEL	Permissible Exposure Limit		
STEL	Short-Term Exposure Limit		
TLV	Threshold Limit Value		
TWA	Time Weighted Average		

FIRST AID MEASURES:

CPR	Cardiopulmonary resuscitation - method in which a person whose heart has
	stopped receives manual chest compressions and breathing to circulate blood
	and provide oxygen to the body.

HMIS-III HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

0	Minimal Hazard			
1	Slight Hazard			
2	Moderate Hazard			
3	Severe Hazard			
4	Extreme Hazard			



PERSONAL PROTECTION RATINGS:

TERSONAL TROTECTION RATINGS.				
Α				
В				
С				
D				
Е				
F				

















Dust & Vapor Half-Mask Respirator

Synthetic Apron



Airline Hood/Mask or SCBA

OTHER STANDARD ABBREVIATIONS:

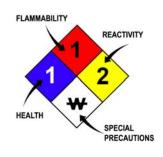
ML	ML Maximum Limit			
mg/m3	mg/m3 milligrams per cubic meter			
NA Not Available				
ND	Not Determined			
NE	Not Established			
NF	Not Found			
NR	No Results			
ppm	parts per million			
SCBA	Self-Contained Breathing Apparatus			

NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

FLAMMABILITY LIMITS IN AIR:				
Autoignition Temperature	Minimum temperature required to initiate combustion in air with no other source of ignition			
LEL	Lower Explosive Limit - lowest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source			
UEL	Upper Explosive Limit - highest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source			

HAZARD RATINGS:

TO LES TO				
0	Minimal Hazard			
1	Slight Hazard			
2	Moderate Hazard			
3	Severe Hazard			
4	Extreme Hazard			
ACD	Acidic			
ALK	Alkaline			
COR	Corrosive			
₩	Use No Water			
ох	Oxidizer			
TREFOIL	Radioactive			



TOXICOLOGICAL INFORMATION:

LD ₅₀ Lethal Dose (solids & liquids) which kills 50% of the exposed s					
LC ₅₀	Lethal concentration (gases) which kills 50% of the exposed animal				
ppm	Concentration expressed in parts of material per million parts				
TD _{io}	Lowest dose to cause a symptom				
TCLo	Lowest concentration to cause a symptom				
TD _{Io} , LD _{Io} , & LD _o or	Lowest dose (or concentration) to cause lethal or toxic effects				
TC, TC _o , LC _{lo} , & LC _o					
IARC	International Agency for Research on Cancer				
NTP	National Toxicology Program				
RTECS	Registry of Toxic Effects of Chemical Substances				
BCF	Bioconcentration Factor				
TL _m	Median threshold limit				
log K _{ow} or log K _{oc}	Coefficient of Oil/Water Distribution				

REGULATORY INFORMATION:

WHMIS	Canadian Workplace Hazardous Material Information System				
DOT	J.S. Department of Transportation				
TC	TC Transport Canada				
EPA	U.S. Environmental Protection Agency				
DSL	Canadian Domestic Substance List				
NOHSC	National Occupational Health and Safety Commission (Australia)				
NDSL	Canadian Non-Domestic Substance List				
PSL	Canadian Priority Substances List				
TSCA	U.S. Toxic Substance Control Act				
EU	European Union (European Union Directive 67/548/EEC)				
WGK	Wassergefährdungsklassen (German Water Hazard Class)				
HMIS-III	HMIS-III National Paint & Coatings Association Hazardous Materials Identification System				

WORKPLACE HAZARDOUS MATERIALS IDENTIFICATION (WHMIS) SYSTEM:

WORKIN E	WORKE EASE HAZARDOOD MATERIALS IDENTIFICATION (WITHING) CTOTEM.									
0					®		R			
Class A	Class B	Class C	Class D1	Class D2	Class D3	Class E	Class F			
Compressed	Flammable	Oxidizing	Toxic	Irritation	Infectious	Corrosive	Reactive			

EC (67/548/EEC) INFORMATION:

154			*		9	×	×
С	E	F	N	0	Т	Xi	Xn
Corrosive	Explosive	Flammable	Harmful	Oxidizing	Toxic	Irritant	Harmful

CLP/GHS (1272/2008/EC) PICTOGRAMS:

	ke)			\Diamond			\Diamond		*
GH	HS01	GHS02	GHS03	GHS04	GHS05	GHS06	GHS07	GHS08	GHS09
Exp	losive	Flammable	Oxidizer	Pressurized	Corrosive	Toxic	Harmful Irritating	Health Hazard	Environment