HARBOR FREIGHT TOOLS

## **SAFETY DATA SHEET**

Page 1 of 5 HFT-69934

SDS Revision: 1.1 Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards

SDS Revision Date: 7/25/2015

1. PRODUCT & COMPANY	<b>IDENTIFICATION</b>
----------------------	-----------------------

1.1	Product Name:	4 IN X 24 IN 120 GRIT SANDING BELT 5 PC	
1.2	Chemical Name:	Zirconium-Aluminum Oxide	
1.3	Synonyms:	P/N 69934	
1.4	Trade Names:	Warrior	
1.5	Product Uses & Restrictions:	Abrasive	
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	

## 2. HAZARDS IDENTIFICATION

Hazard 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 Precautionary Statements (P): P261 - Avoid breathing dust. P304 + P312 - IF INHALED: Call a POISON CENTER/doctor if you feel unwell. P280 - Wear protective gloves/eye protection/face protection. P302+P352 – IF ON SKIN: Wash with soap and water. P333+P313 – If skin irritation occurs: Get medical advice/attention. P501 – Dispose of contents/container to a licensed treatment, storage or disposal facility (TSDF).



### 3. COMPOSITION & INGREDIENT INFORMATION

								EXPO	SURE L	IMITS IN	I AIR (m	g/m³)	
					AC	GIH		NOHSC			OSHA		
					pp	m		ppm			ppm		
CHEMICAL NAME(S)	CAS No.	RTECS No.	EINECS No.	%	TLV	STEL	ES- TWA	ES- STEL	ES- PEAK	PEL	STEL	IDLH	OTHER
BACKING PAPER OR CLOTH OR	NA	NA	NA	30-60	NA	NA	NF	NF	NF	NA	NA	NA	
FIBER													
ZIRCONIUM	7440-67-7	ZH7070000	231-176-9	25-40	0.5	NA	1.5	NA	NA	3	1.5	NA	
ZIRCONOW	Pyr. Sol. 1, Water React. 1; H250, H260												
ALUMINUM OXIDE	1344-28-1	BD1200000	215-691-6	15-30	15	NA	NF	NF	NF	15	NA	NA	
ALOMINOM OXIDE	Skin Sens. 1B; Acute Tox. Inh. 5; H317, H333												
CURED ADHESIVE ORGANIC	NA	NA	NA	5-25	NA	NA	NF	NF	NF	NA	NA	NA	
GLUE OR RESIN COMBINATION													
INORGANIC FLUORIDES	NA	NA	NA	1-5	NA	NA	NF	NF	NF	NA	NA	NA	
INORGANIC FLOORIDES			•	•									

			4. FIRST AID MEASURES
4.1	First Aid:	Ingestion:	Ingestion unlikely; however, if ingested, do not induce vomiting. Contact the nearest Poison Control Center or local emergency number. Provide an estimate of the time at which the material was ingested and the amount of the substance that was swallowed.
		Eyes:	If product gets in the eyes, flush with copious amounts of lukewarm water for at least 15 minutes lifting upper and lower lids, occasionally.
		<u>Skin</u> :	Wash thoroughly with soap and water. In case of contact, immediately flush skin with plenty of water for at least 15 minutes.
		Inhalation:	Remove victim to fresh air at once. If breathing is difficult, administer oxygen. If breathing stops give artificial respiration. Keep person warm, quiet and get medical attention.
4.2	Effects of Exposure:	Ingestion:	If product is swallowed, may cause gastrointestinal disturbance.
		Eyes:	Exposure to dust may cause eye irritation. Symptoms of overexposure may include redness, itching, irritation and watering.
		<u>Skin</u> :	May be irritating to skin. The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) in some sensitive individuals.
		Inhalation:	Coughing, wheezing, shortness of breath, impaired pulmonary function. Irritation or soreness in throat, nose and respiratory tract.

HARBOR FREIGHT TOOLS

## SAFETY DATA SHEET

Page 2 of 5

HFT-69934 Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision: 1.1 SDS Revision Date: 7/25/2015 4. FIRST AID MEASURES - cont'd 4.3 Symptoms of Overexposure: If product is swallowed, may cause gastrointestinal disturbance. Ingestion: Exposure to dust may cause eye irritation. Symptoms of overexposure may include redness, itching, Eyes: irritation and watering. May be irritating to skin. The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) in Skin: some sensitive individuals. Inhalation: Coughing, wheezing, shortness of breath, impaired pulmonary function. Irritation or soreness in throat, nose and respiratory tract. 4.4 Acute Health Effects Moderate irritation to eyes and skin near affected areas. Additionally, high concentrations of dust can cause coughing, wheezing, shortness of breath, impaired pulmonary function. Irritation or soreness in throat, nose and respiratory tract. 4.5 Chronic Health Effects: Possible allergic dermatitis in some sensitive individuals 4.6 Target Organs: Eyes, Skin, Respiratory System 4.7 Medical Conditions Pre-existing dermatitis, other skin conditions. **HEALTH** 1 Aggravated by Exposure: **FLAMMABILITY** 0 PHYSICAL HAZARDS 0 PROTECTIVE EQUIPMENT В **EYES** SKIN 5. FIREFIGHTING MEASURES 5.1 Fire & Explosion Hazards: This material can burn but will not readily ignite. However, if involved in a fire, this product may decompose at high temperatures to form toxic gases (e.g., CO, CO<sub>X</sub>, Hydrocarbons). Extinguishing Methods: 5.2 CO<sub>2</sub>, Dry Chemical, Alcohol Foam. Use water spray to cool containers. 5.3 Firefighting Procedures: Keep containers cool until well after the fire is out. Fight fires as for surrounding materials. As in any fire, wear MSHA/NIOSH approved self-contained breathing apparatus (pressure-demand) and full protective gear. Keep containers cool until well after the fire is out. Use water spray to cool fireexposed surfaces and to protect personal. Fight fire upwind. Avoid spraying water directly into storage containers because of danger of boil-over. Prevent runoff from fire control or dilution from entering sewers, drains, drinking water supply, or any natural waterway. Firefighters must use full bunker gear including NIOSH-approved positive pressure self-contained breathing apparatus to protect against potential hazardous combustion or decomposition products and oxygen deficiencies. 6. ACCIDENTAL RELEASE MEASURES Before cleaning any spill individuals involved in cleanup must wear appropriate Personal Protective Equipment. Plastic Spills: or rubber gloves, respirator, eye protection and apron may be required for clean-up of large spills. No special precautions are required for intact packaging containing this product. If product is crushed, use respiratory protection equipment. Do not use compressed air to clean up any residue. Use a wet method or vacuums equipped with High Efficiency Particulate (HEPA) filters to clean up any residues from this product. Waste must be placed in dust tight containers or sealed plastic bags for disposal. Label properly. Keep spills and cleaning runoffs out of drains, municipal sewers and open bodies of water. 7. HANDLING & STORAGE INFORMATION 7.1 Work & Hygiene Practices: Do not eat, drink or smoke when handling this product. Handle as to avoid puncturing container(s). Wash unintentional residues with soap and warm water. 7.2 Storage & Handling: Use and store in a cool, dry, well-ventilated location (e.g., local exhaust ventilation, fans) away from heat and direct sunlight. Avoid temperatures above 120 °F. Keep away from incompatible substances. Protect containers from physical damage 7.3 Special Precautions: Clean all spills promptly. Spilled material may present a slipping hazard. 8. EXPOSURE CONTROLS & PERSONAL PROTECTION ACGIH NOHSC OTHER 8.1 Exposure Limits: OSHA ppm (mg/m<sup>3</sup>) STEL ES-STEL STEL ES-TWA **ES-PEAK** PEL CHEMICAL NAME(S) TLV IDLH ALUMINUM OXIDE 15 NA NF NF NF 15 NA NA ZIRCONIUM 0.5 NA 1.5 NA NA 3 1.5 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 dusts generated from the use of this product. Ensure appropriate decontamination equipment is available (e.g., sink, safety shower, eye-wash station). 8.3 Respiratory Protection: In instances where dusts are generated when using this product, 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 Eye Protection: Use equipment for eye protection tested and approved under appropriate Avoid eye contact. government standards such as NIOSH (US) or EN 166(EU).

## SAFETY DATA SHEET

Page 3 of 5 HFT-69934

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

SDS Revision Date: 7/25/2015 8. EXPOSURE CONTROLS & PERSONAL PROTECTION - cont'd 8.5 Hand Protection: Heavy-duty work gloves recommended under normal conditions of use to avoid abrasions and reduce risk of exposure to hands. If necessary, refer to U.S. OSHA 29 CFR §1910.138, the appropriate standards of Canada, or the EU member states. 8.6 Body Protection: No apron required under normal circumstances; however, it is recommended. Upon completion of work activities using this product), wash any exposed areas thoroughly with soap and water. If necessary, refer to appropriate standards of Canada, the EU member states, or U.S. OSHA 9. PHYSICAL & CHEMICAL PROPERTIES 9.1 Appearance: Solid article 9.2 Odor: Odorless Odor Threshold: 9.3 NA 9.4 NA Melting Point/Freezing Point: 9.5 NA 96 Initial Boiling Point/Boiling NA Range: 9.7 Flashpoint: NA 98 Upper/Lower Flammability NA Limits: 9.9 Vapor Pressure: NA 9.10 Vapor Density: NA 9.11 Relative Density: NA 9.12 Solubility: NA 9.13 Partition Coefficient (log Pow): NA 9.14 **Autoignition Temperature:** NA Decomposition Temperature: 9.15 NA 9 16 Viscosity: NA 9.17 Other Information: NA 10. STABILITY & REACTIVITY 10.1 Stability: Stable under normal conditions; unstable with heat or contamination. 10.2 Hazardous Decomposition Oxides of carbon (CO, CO<sub>2</sub>). Products Hazardous Polymerization: 10.3 Will not occur. 10.4 Conditions to Avoid: Open flames, sparks, high heat, incompatible substances and direct sunlight. 10.5 Incompatible Substances Avoid extreme heat and ignition sources. Store away from oxidizers 11. TOXICOLOGICAL INFORMATION Inhalation: YES Absorption: YES 11.1 Routes of Entry: Ingestion: YES 11.2 Toxicity Data: This product has NOT been tested on animals to obtain toxicology data. Toxicology data, found in scientific literature, is available for some of the components of the product, but is not presented in this document. 11.3 Acute Toxicity: See Section 4.4 11.4 Chronic Toxicity: See Section 4.5 11.5 Suspected Carcinogen: NA 11.6 Reproductive Toxicity: This product is not reported to produce reproductive toxicity in humans. Mutagenicity This product is not reported to produce mutagenic effects in humans Embryotoxicity: This product is not reported to produce embryotoxic effects in humans. Teratogenicity: This product is not reported to cause teratogenic effects in humans. Reproductive Toxicity: This product is not reported to cause reproductive effects in humans. 11.7 Irritancy of Product: The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) upon prolonged or repeated exposure. 11.8 Biological Exposure Indices: NF 11.9 Physician Recommendations: Treat symptomatically. 12. ECOLOGICAL INFORMATION Environmental Stability: 12.1 There are no specific data available for this product. Effects on Plants & Animals: 12.2 There are no specific data available for this product. Effects on Aquatic Life: 12.3 There are no specific data available for this product. 13. DISPOSAL CONSIDERATIONS Waste Disposal: 13.1 Dispose of in accordance with federal, state, provincial and local regulations. 13.2 Special Considerations: NA

HARBOR FREIGHT TOOLS

Quality Teols at Ridiculously Low Prices

# **SAFETY DATA SHEET**

Page 4 of 5 **HFT-69934** 

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

SDS Revision: 1.1

SDS Revision Date: 7/25/2015

		14. TRANSPORTATIO			
desc	riptive information may be	e required by 49 CFR, IATA/ICAO, IMDG and the C	n, packing group) is shown for each mode of transpor	tation. Additional	
14.1	49 CFR (GND):	NOT REGULATED			
14.2	IATA (AIR):	NOT REGULATED			
14.3	IMDG (OCN):	NOT REGULATED			
14.4	TDGR (Canadian GND):	NOT REGULATED			
14.5	ADR/RID (EU): SCT (MEXICO):	NOT REGULATED			
14.6	, ,	NOT REGULATED			
14.7	ADGR (AUS):	NOT REGULATED			
		15. REGULATORY I	NFORMATION		
15.1	SARA Reporting Requirements:	This product contains <u>Alumina (Aluminum Oxide)</u> , requirements.	, a substance subject to SARA Title III, Section 313 rep	porting	
15.2	SARA Threshold Planning Quantity:	There are no specific Threshold Planning Quantiti	ies for the components of this product.		
15.3	TSCA Inventory Status:	The components of this product are listed on the	TSCA Inventory or are otherwise exempt.		
15.4	CERCLA Reportable Quantity (RQ):	NA			
15.5	Other Federal Requirements:		s Air Pollutants (HAPs). None of the ingredients a lone of the ingredients are listed as Priority Pollutants any Class 1 or Class 2 ozone depletors.		
15.6	Other Canadian Regulations:	This product has been classified according to the hazard criteria of the CPR and the SDS contains all of the information required by the CPR. The components of this product are listed on the DSL/NDSL. Inorganic Fluorides is listed on the Priorities Substances List.  WHMIS D2B (Other Toxic Effects).			
15.7	State Regulatory Information:	Alumina (Aluminum Oxide) is found on the following state criteria list: Massachusetts Hazardous Substances List (MA, Minnesota Hazardous Substances List (MN), New Jersey Right-to-Know List (NJ), and Washington Permissible Exposures List (WA).  No other ingredients in this product, present in a concentration of 1.0% or greater, are listed on any of the following state criteria lists: California Proposition 65 (CA65), Delaware Air Quality Management List (DE), Florida Toxic Substances List (FL), Massachusetts Hazardous Substances List (MA), Michigan Critical Substances List (MI), Minnesota Hazardous Substances List (MN), New Jersey Right-to-Know List (NJ), New York Hazardous Substances List (NY), Pennsylvania Right-to-Know List (PA), Washington Permissible Exposures List (WA), Wisconsin Hazardous Substances List (WI).			
15.8	Other Requirements:	The primary components of this product are listed in Annex I of EU Directive 67/548/EEC:  Harmful (Xn). Risk Phrases (R): 20-38 – Harmful if inhaled. Irritating to skin. Safety Phrases (S): 2-23-24-62 - Keep away from children. Do not breathe dust. Avoid contact with skin. If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label where possible.			
		16. OTHER INFO	DRMATION		
16.1	Other Information:		REACTION. MAY BE HARMFUL IF INHALED. Use	a only as directed	
		Keep away from children. Do not breathe fumes	container or label where possible. <b>KEEP LOCKED</b> I	t induce vomiting:	
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 Standard, 29 CFR §1910.1200. Other government regulations must be reviewed for applicability to this product. To the best of ShipMate's & Harbor Freight Tools USA, Inc.'s knowledge, the information contained herein is reliable and accurate as of this date; however, accuracy, suitability or completeness is not guaranteed and no warranties of any type, either expressed or implied, are provided. The information contained herein relates only to the specific product(s). If this product(s) is combined with other materials, all component properties must be considered. Data may be changed from time to time. Be sure to consult the latest edition.			
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	HARBOR FREIGHT TOOLS  Quality Tools at Ridiculously Low Prices		
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			

# **SAFETY DATA SHEET**

Page 5 of 5 HFT-69934

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

SDS Revision Date: 7/25/2015

#### **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:

A	I ENGONAL I NOTECTION NATINGS.				
C (	Α				
D	В				
E ( ) ( )	С				
	D				
F 📵 🕦 🤀 📵	Ε				
	F				









Synthetic Apron

**Protective Clothing** & Full Suit

**Dust Respirator** 

**Full Face Respirator** 

**Dust & Vapor Half-**Mask Respirator

**Full Face** 

Airline Hood/Mask or SCBA

#### OTHER STANDARD ABBREVIATIONS:

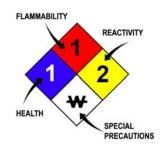
ML	Maximum Limit
mg/m3	milligrams per cubic meter
NA	Not Available
ND	Not Determined
NE	Not Established
NF	Not Found
NR	No Results
ppm	parts per million
SCBA	Self-Contained Breathing Apparatus

#### NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

FLAMMABILI	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:

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

#### **REGULATORY INFORMATION:**

WHMIS	Canadian Workplace Hazardous Material Information System					
DOT	U.S. Department of Transportation Transport Canada					
TC						
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	L 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	National Paint & Coatings Association Hazardous Materials Identification System					

#### WORKPLACE HAZARDOUS MATERIALS IDENTIFICATION (WHMIS) SYSTEM:

***************************************	Working Exists and Section 19 to 19							
	<b>(</b>	<b>(2)</b>	(3)	$\odot$	(18)			
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:

The state of the s		M	*			X	X
С	E	F	N	0	Т	Xi	Xn
Corrosive	Explosive	Flammable	Harmful	Oxidizing	Toxic	Irritant	Harmful

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

			$\Diamond$			$\Leftrightarrow$		*
GHS01	GHS02	GHS03	GHS04	GHS05	GHS06	GHS07	GHS08	GHS09
Explosive	Flammable	Oxidizer	Pressurized	Corrosive	Toxic	Harmful Irritating	Health Hazard	Environment