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OTHER

Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision: 1.1 SDS Revision Date: 7/25/2015 1. PRODUCT & COMPANY IDENTIFICATION Product Name: 1 IN X 30 IN 80 GRIT ZIRC SANDING BELT 2 PC Chemical Name Zirconium-Aluminum Oxide Synonyms P/N 60424 Trade Names Warrior Product Uses & Restrictions: Abrasive Distributor's Name: Harbor Freight Tools USA, Inc. Distributor's Address: 26541 Agoura Road, Calabasas, CA 91302 USA Emergency Phone: CHEMTREC: +1 (703) 527-3887 / +1 (800) 424-9300 (CCN 676687) Business Phone / Fax: +1 (805) 388-1000 2. HAZARDS IDENTIFICATION This product is classified as a HAZARDOUS SUBSTANCE but not as DANGEROUS GOODS Hazard Identification: 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 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 EXPOSURE LIMITS IN AIR (mg/m³) ACGIH NOHSC OSHA ppm ppm ppm ES-ES-ES-CHEMICAL NAME(S) CAS No. RTECS No. EINECS No. TLV STEL TWA PEAK PEL STEL IDLH % STEL BACKING PAPER OR CLOTH OR NA NA NA NA 30-60 NA NA NF NF NF NA NA 7440-67-7 ZH7070000 231-176-9 25-40 0.5 NA 1.5 NA NA 3 1.5 NA ZIRCONIUM Pyr. Sol. 1, Water React. 1; H250, H260 NA NF NF NF 15 NA NA 1344-28-1 BD1200000 215-691-6 15-30 15 ALUMINUM OXIDE Skin Sens. 1B; Acute Tox. Inh. 5; H317, H333 CURED ADHESIVE ORGANIC NA NA 5-25 NA NA NF NF NF NA NA NA NA GLUE OR RESIN COMBINATION NA NA NA NA NF NF NF NA NA NA NA 1-5 INORGANIC FLUORIDES 4. FIRST AID MEASURES First Aid: Ingestion unlikely; however, if ingested, do not induce vomiting. Contact the nearest Poison Control Center Ingestion: 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. If product gets in the eyes, flush with copious amounts of lukewarm water for at least 15 minutes lifting Eyes: upper and lower lids, occasionally. Wash thoroughly with soap and water. In case of contact, immediately flush skin with plenty of water for at Skin: least 15 minutes. Remove victim to fresh air at once. If breathing is difficult, administer oxygen. If breathing stops give Inhalation: artificial respiration. Keep person warm, quiet and get medical attention. Effects of Exposure: 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. Skin: 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.

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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision: 1.1 SDS Revision Date: 7/25/2015 4. FIRST AID MEASURES - cont'd 43 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: Non-irritating when used as directed. 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. Chronic Health Effects: 45 Non-irritating when used as directed. 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 Fire & Explosion Hazards: This material can burn but will not readily ignite. However, if involved in a fire, this product may 5.1 decompose at high temperatures to form toxic gases (e.g., CO, CO_X, Hydrocarbons). 5.2 Extinguishing Methods: CO₂, 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 6.1 Spills: or rubber gloves, respirator, eve 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 Work & Hygiene Practices: Do not eat, drink or smoke when handling this product. Handle as to avoid puncturing container(s). Wash unintentional 7.1 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. Special Precautions: 7.3 Clean all spills promptly. Spilled material may present a slipping hazard. 8. EXPOSURE CONTROLS & PERSONAL PROTECTION 8.1 Exposure Limits: ACGIH NOHSC OSHA OTHER $ppm (ma/m^3)$ CHEMICAL NAME(S) TLV STEL ES-TWA ES-STEL ES-PEAK PEL STEL IDLH ALUMINUM OXIDE 15 NA NF NF NF 15 NA NA ZIRCONIUM 0.5 NA 1.5 NA NA 3 1.5 NA Ventilation & Engineering 8.2 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). Respiratory Protection: 8.3 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: Avoid eye contact. 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. 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

		9. PHYSICAL & CHEMICAL PROPERTIES
9.1	Appearance:	Solid article
9.2	Odor:	Odorless
9.3	Odor Threshold:	NA
9.4	pH:	NA
9.5	Melting Point/Freezing Point:	NA
9.6	Initial Boiling Point/Boiling Range:	NA
9.7	Flashpoint:	NA
9.8	Upper/Lower Flammability Limits:	NA
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
9.15	Decomposition Temperature:	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 Products:	Oxides of carbon (CO, CO ₂).
10.3	Hazardous Polymerization:	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
11.1	Routes of Entry:	Inhalation: YES Absorption: YES 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:	
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:	NE
11.9	Physician Recommendations:	Treat symptomatically.
		12. ECOLOGICAL INFORMATION
12.1	Environmental Stability:	
12.1	Effects on Plants & Animals:	There are no specific data available for this product.
12.2		There are no specific data available for this product.
12.3	Effects on Aquatic Life:	There are no specific data available for this product.

13. DISPOSAL CONSIDERATIONS

13.1	Waste Disposal:	Dispose of in accordance with federal, state, provincial and local regulations.
13.2	Special Considerations:	NA

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		14. TRANSPORTATION INFORMATION						
The	havia decovirtion (ID Num							
		nber, proper shipping name, hazard class & division, packing group) is shown for each mode of transportation. Additional e required by 49 CFR, IATA/ICAO, IMDG and the CTDGR.						
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):	NOT REGULATED						
14.6	SCT (MEXICO):	NOT REGULATED						
14.7	ADGR (AUS):	NOT REGULATED						
		15. REGULATORY INFORMATION						
15.1	SARA Reporting Requirements:	This product contains <u>Alumina (Aluminum Oxide)</u> , a substance subject to SARA Title III, Section 313 reporting requirements.						
15.2	SARA Threshold Planning Quantity:	There are no specific Threshold Planning Quantities 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	NA						
15.5	(RQ): Other Federal Requirements:	None of the ingredients are listed as Hazardous Air Pollutants (HAPs). None of the ingredients are listed as Toxic						
10.0		Pollutants under the Clean Water Act (CWA). None of the ingredients are listed as Toxic Water Act (CWA). This product does not contain any Class 1 or Class 2 ozone depletors.						
15.6	Other Canadian Regulations:							
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). <u>Risk Phrases</u> (R): 20-38 – Harmful if inhaled. Irritating to skin. <u>Safety Phrases</u> (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 INFORMATION						
10.1								
16.1	Other Information:	WARNING! MAY CAUSE AN ALLERGIC SKIN REACTION. MAY BE HARMFUL IF INHALED. Use only as directed. Keep away from children. Do not breathe fumes/spray. Avoid contact with skin. If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label where possible. KEEP LOCKED UP AND OUT OF REACH OF CHILDREN.						
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						
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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REACTIVITY

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

SDS Revision: 1.1

SDS Revision Date: 7/25/2015

FLAMMABILITY

DEFINITION OF TERMS

HAZARD RATINGS:

0 Minimal Hazard1 Slight Hazard

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 M	EASURES:				

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 & I	HEALTH				
0	Minimal Hazard		HEALTH			
1	Slight Hazard		FLAMMABILITY			
2	Moderate Hazard		PHYSICAL HAZARDS			
3	Severe Hazard		PERSONAL PROTECTION			
4	Extreme Hazard					

PERSONAL PROTECTION RATINGS:

ppm parts per million

FLAMMABILITY LIMITS IN AIR:

Autoignition Temperature

> LEL UEL

SCBA Self-Contained Breathing Apparatus
NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

source of ignition

Α						G						
В						н			品			
С	0		E.			I	0	(T))		
D	B		E.			J		(T)				
Е						к	3	(T)				
F	F 🕞 🕥 🏠 🤅					X	Consult your supervisor or SOPs special handling directions.					
Sa	fety Glasse	es	Splash	Goggles	F	Face Shield & Protective Eyewea			Gloves			
	Boots	Synthetic Apron		F		tive Cloth	ing	Dust Respirator				
								Î				
Full Face Respirator					2.	Full Face Respirator			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 Re	sults									

Minimum temperature required to initiate combustion in air with no other

Lower Explosive Limit - lowest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source

Upper Explosive Limit - highest percent of vapor in air, by volume, that will

explode or ignite in the presence of an ignition source

1	Slight Ha	azard				RE	ACTIVITY		
2	2 Moderate	e Hazard							
3									
4	Extreme	Hazard	ard 2						
ACD	Acidic				X		/		
ALK	Alkaline								
COR	Corrosiv	e	HEALTH						
W	Use No V	Nater		The second se		VK en	ECIAL		
oX	C Oxidizer						RECAUTIONS		
TREFOIL	Radioact	tive							
TOXICOL	OGICAL II	NFORMAT	ION:						
	LD	50 Lethal I s	Dose (solids	& liquids) wh	ich kills 50%	of the expos	sed animals		
	LC	50 Lethal of	concentration	(gases) whi	ch kills 50% o	of the expose	ed animal		
	рр	m Concer	ntration expre	essed in parts	of material p	per million pa	arts		
	TC	D _{Io} Lowest	dose to caus	se a symptom	า				
	TCL	o Lowest	concentratio	n to cause a	symptom				
TD _{lo} ,	LD _{io} , & LD _o			centration) to		l or toxic effe	ects		
	o, LC _{io} , & L(, -	, .					
	IAR		tional Agency	/ for Researc	h on Cancer				
	NT		al Toxicology						
	RTEC			ects of Chem	nical Substan	ces			
	вс	F Biocone	, centration Fa	ctor					
	TL	Median	threshold lin	nit					
loa K	ow or log K			ater Distributi	on				
WHMIS				Material Infor	mation Syste	m			
DOT			ransportation		mation byste	411			
тс	-	rt Canada	Tansportation						
			Dratastian As						
EPA			Protection Ag	-					
DSL	-		Substance Li						
NOHSC			pational Health and Safety Commission (Australia) -Domestic Substance List						
NDSL									
PSL		-	bstances List						
TSCA			e Control Act						
EU			•	Directive 67	,				
WGK	-	-	nrdungsklassen (German Water Hazard Class) nt & Coatings Association Hazardous Materials Identification System						
HMIS-II			-						
WORKPL	ACE HAZ	ARDOUS	ATERIAL	S IDENTIF	ICATION (WHMIS) S	YSTEM:		
\bigcirc	۲	٨	R	()	۲		Ŕ		
Class A	Class B	Class C	Class D1	Class D2	Class D3	Class E	Class F		
ompressed	Flammable	Oxidizing	Toxic	Irritation	Infectious	Corrosive	Reactive		
EC (67/54	8/EEC) IN	FORMATIO	ON:	1			1		
		N.	¥	*	.	×	×		
с	E F N		N	0	0 Т		Xn		
Corrosive Explosive Flammable Harmful		Oxidizing	Toxic	Irritant	Harmful				
CLP/GHS	(1272/200	8/EC) PIC	TOGRAMS):	1	1	1		
					\				