SAFETY DATA SHEET

SDS Revision: 1.1

Coughing, wheezing, shortness of breath, impaired pulmonary function. Irritation or soreness in throat,

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SDS Revision Date: 7/25/2015

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

Inhalation:

nose and respiratory tract.

1. PRODUCT & COMPANY IDENTIFICATION 1.1 Product Name: 4 IN 180 GRIT MEDIUM GRADE ABRASIVE BALL 1.2 Chemical Name: Aluminum Oxide-Fiber 1.3 Synonyms: P/N 61184 1.4 Trade Names: Warrior Product Uses & Restrictions: 1.5 Abrasive 1.6 Distributor's Name: Harbor Freight Tools USA, Inc. Distributor's Address: 1.7 26541 Agoura Road, Calabasas, CA 91302 USA Emergency Phone: CHEMTREC: +1 (703) 527-3887 / +1 (800) 424-9300 (CCN 676687) 1.8 19 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 2.1 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-STEL CHEMICAL NAME(S) CAS No. RTECS No. EINECS No. % TLV STEI TWA STEL PEAK PEL IDLH OTHER 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; H317, H333 10-30 NA NA NF NF NF NA NA NA NA NA NA PAPER, CLOTH, OR FIBER NA NA NA NF NF NF NA NA 10-30 NA NA NA EPOXY RESIN 4. FIRST AID MEASURES 4.1 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. Skin: Wash thoroughly with soap and water. In case of contact, immediately flush skin with plenty of water for at 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. 4.2 Effects of Exposure: Ingestion: If product is swallowed, may cause gastrointestinal disturbance. 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. 4.3 Symptoms of Overexposure: Ingestion: If product is swallowed, may cause gastrointestinal disturbance. 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.

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			T AID MEASURES – co		
4.4	Acute Health Effects:		nd skin near affected areas. Additio h, impaired pulmonary function. Irrit		
4.5	Chronic Health Effects:	Possible allergic dermatitis in			,,,,
4.6	Target Organs:	Eyes, Skin, Respiratory Syste			
4.7	Medical Conditions	Pre-existing dermatitis, other		HEALTH	1
	Aggravated by Exposure:			FLAMMABILIT	
				PHYSICAL HAZ	
				PROTECTIVE E	
				EYES SKIN	
		5 EIE	REFIGHTING MEASURE	-0	
5.1	Fire & Explosion Hazards:		vill not readily ignite. However, if in		duct may
			ires to form toxic gases (e.g., CO, C		addt may
5.2	Extinguishing Methods:		oam. Use water spray to cool conta		
5.3	Firefighting Procedures:		Il after the fire is out. Fight fires as f		As in any
			proved self-contained breathing app		
		protective gear. Keep conta	ainers cool until well after the fire is	out. Use water spray to	cool fire-
			tect personnel. Fight fire upwind.		
			, drains, drinking water supply, or		
			ncluding NIOSH-approved positive		
		deficiencies.	potential hazardous combustion or d	ecomposition products ar	id oxygen
		denciencies.			
		6. ACCIDE	ENTAL RELEASE MEAS	SURES	
6.1	Spills:		viduals involved in cleanup must we		Protective Equipment Plastic
0	opinor		, eye protection and apron may b		
			intact packaging containing this pro		
			pressed air to clean up any residue		
) filters to clean up any residues fr		
			bags for disposal. Label properly. K	eep spills and cleaning ru	inoffs out of drains, municipal
		sewers and open bodies of w	ater.		
				ΜΑΤΙΟΝ	
7.1	Work & Hygiene Practices:	Do not eat, drink or smoke w	IG & STORAGE INFOR /hen handling this product. Handle		ontainer(s). Wash particulate
		Do not eat, drink or smoke w dust with soap and warm wate	when handling this product. Handle er.	as to avoid puncturing co	
7.1 7.2	Work & Hygiene Practices: Storage & Handling:	Do not eat, drink or smoke w dust with soap and warm wate Use and store in a cool, dry	when handling this product. Handle er. , well-ventilated location (e.g., loca	as to avoid puncturing control of a state of	
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9. PHYSICAL & CHEMICAL PROPERTIES 9.1 Appearance: Solid article 92 Odor: Odorless 9.3 Odor Threshold: NA 9.4 pH: NA 9.5 Melting Point/Freezing Point: NA Initial Boiling Point/Boiling 9.6 NA Range: 9.7 Flashpoint: NA 9.8 Upper/Lower Flammability NA Limits: 99 Vapor Pressure: NA 9.10 Vapor Density: NA 9.11 Relative Density: 3.5 9.12 Solubility: Insoluble Partition Coefficient (log Pow): 9.13 NA 9.14 Autoignition Temperature NA 9.15 Decomposition Temperature: NA 9.16 Viscositv 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, CO₂). Products Hazardous Polymerization: 10.3 Will not occur. Open flames, sparks, high heat, incompatible substances and direct sunlight. 10.4 Conditions to Avoid 10.5 Incompatible Substances Avoid extreme heat and ignition sources. Store away from oxidizers. Avoid acids of all types with a pH < 4.0. **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: 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: NE 11.9 Physician Recommendations: Treat symptomatically. **12. ECOLOGICAL INFORMATION** There are no specific data available for this product. Environmental Stability: 12.1 Effects on Plants & Animals: 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

HARBOR FREIGHT TOOLS Quality Tools at Ridiculously Low Prices

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T L -	has to description (ID No.	14. TRANSPORTATION INFORMATION						
		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								
14.3	14.3 IMDG (OCN): NOT REGULATED							
14.4	TDGR (Canadian GND): NOT REGULATED							
14.5								
14.6	SCT (MEXICO):	NOT REGULATED						
14.7	ADGR (AUS):	NOT REGULATED						
		15. REGULATORY INFORMATION						
15.1	SARA Reporting Requirements:	This product contains <u>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						
45.5	(RQ): Other Federal Requirements:							
15.5	Other Federal Requirements:	None of the ingredients are listed as Hazardous Air Pollutants (HAPs). None of the ingredients are listed as Toxic Pollutants under the Clean Water Act (CWA). None of the ingredients are listed as Priority Pollutants under the Clean Water Act (CWA). This product does not contain 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. None of the components of this product are listed on the Priorities Substances List. WHMIS D2B (Other Toxic Effects).						
15.7								
15.8	Right-to-Know List (PA), Washington Permissible Exposures List (WA), Wisconsin Hazardous Substances List (WI).							
		possible.						
		16. OTHER INFORMATION						
16.1	Other Information:	WARNING! MAY CAUSE AN ALLERGIC SKIN REACTION. MAY BE HARMFUL IF INHALED. Avoid breathing dust. IF INHALED: Call a POISON CENTER/doctor if you feel unwell. Wear protective gloves/eye protection/face protection. IF ON SKIN – Wash with soap and water. If skin irritation occurs: Get medical advice/attention. KEEP 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						

SAFETY DATA SHEET

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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

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:

Г CAS No. Chemical Abstract Service Number

EXPOSURE	LIMITS IN AIR:				
ACGIH	American Conference on Governmental Industrial Hygienists				
C Ceiling Limit					
ES	Exposure Standard (Australia)				
IDLH	H Immediately Dangerous to Life and Health				
OSHA	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:				

Cardiopulmonary resuscitation - method in which a person whose heart has CPR 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		HEALTH					
1	Slight Hazard		FLAMMABILITY					
2	Moderate Hazard		PHYSICAL HAZARDS					
3	Severe Hazard		PERSONAL PROTECTION					
4	Extreme Hazard							

PERSONAL PROTECTION RATINGS:

Α					G					
в					н	0		凸		
С	0		E.T		I	0				
D	B		E.P.		J			Î		
Е			\bigcirc		к			A		
F			丹 国		Х	Consult special I	your sup handling	ervisor o direction	r SOPs fe s.	
Sa	Safety Glasses Splash Goggles					e Shield 8 tive Eyew		Gloves		
	Image: Synthetic Apron					tive Cloth Full Suit	ing	Dust Res	pirator	
			8	8				Ŵ		
Full I	ace Respi	rator	Dust & Va Mask Re		Full Face Airline Hood/M Respirator or SCBA					
OTH	ER STAN	DARD	ABBREV	IATIONS	:					
	ML	Maxim	ium Limit							
	mg/m3	-	ams per cu	bic meter						
	NA		ailable							
L	ND		etermined							
<u> </u>	NE		stablished							
	NF	Not Fo								

NR No Results ppm parts per million SCBA Self-Contained Breathing Apparatus NATIONAL FIRE PROTECTION ASSOCIATION: NFPA FLAMMABILITY LIMITS IN AIR: tolanition Mini

Temperature	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

0	ATINGS: Minimal Ha	zard		FL	AMMABILITY		
1							ACTIVITY
2	Moderate H					RE	ACTIVITY
3	Severe Haz						
4	Extreme Ha	azard			1	V 5	
ACD	Acidic					<u> </u>	/
ALK	Alkaline				\frown	· • · V	
COR	Corrosive				/	₩ /	
₩	Use No Wa	ater		н	EALTH	×	
ох	Oxidizer						ECIAL
TREFOIL	Radioactive	Э					LUAUNUN
OXICOLO	GICAL INF	ORMAT	ION:				
	LD ₅₀	Lethal I s	Dose (solids	& liquids) wh	iich kills 50%	of the expos	sed animals
	LC ₅₀	Lethal of	oncentration	(gases) whi	ch kills 50% c	of the expose	ed animal
	ppm	Concer	tration expre	ssed in parts	of material p	er million pa	rts
	TD _{lo}	Lowest	dose to caus	se a symptom	ı		
	TCLo	Lowest	concentratio	n to cause a	symptom		
	D _{lo} , & LD _o or LC _{lo} , & LC _o	Lowest	dose (or con	centration) to	o cause letha	l or toxic effe	cts
. 5, 100,	IARC	Internat	ional Agency	for Researc	h on Cancer		
	NTP		I Toxicology				
	RTECS			•	nical Substan	ces	
	BCF		entration Fa				
	TLm		threshold lin				
log Kov	v or log Koc		ent of Oil/Wa	ter Distributi	on		
REGULATO			N:				
WHMIS	Canadian V	Vorkplace	Hazardous I	Material Infor	mation Syste	m	
DOT			ransportation		,		
TC	Transport C						
EPA			Protection Ag	ency			
DSL			Substance Li				
NOHSC	National O	ccupationa	al Health and	Safety Com	mission (Aust	tralia)	
NDSL	Canadian N	Non-Dome	stic Substan	ce List		,	
PSL	Canadian F	Priority Sul	ostances List				
TSCA	U.S. Toxic	Substance	e Control Act				
EU	European l	Jnion (Eur	opean Union	Directive 67	/548/EEC)		
WGK	Wassergefa	ährdungsk	lassen (Gerr	nan Water H	azard Class)		
HMIS-III	National Pa	aint & Coa	tings Associa	ation Hazardo	ous Materials	Identification	n System
NORKPLA	CE HAZAR	DOUS	IATERIAL	S IDENTIF	ICATION (WHMIS) S'	YSTEM:
\bigcirc		٩		()	۲		Ŕ
Class A	Class B	Class C	Class D1	Class D2	Class D3	Class E	Class F
ompressed F	lammable	Oxidizing	Toxic	Irritation	Infectious	Corrosive	Reactive
EC (67/548/	EEC) INFC	RMATIC	ON:				
		N	¥	8	&	×	×
						N.	¥-
c	E	F	Ν	0	т	Xi	Xn
		F	N Harmful	O Oxidizing	T Toxic	Irritant	Harmful

-	-	•	-	•	•	•	-	•
GHS01	GHS02	GHS03	GHS04	GHS05	GHS06	GHS07	GHS08	GHS09
Explosive	Flammable	Oxidizer	Pressurized	Corrosive	Toxic	Harmful Irritating	Health Hazard	Environment