SAFETY DATA SHEET

Page 1 of 5 **HFT-69600**

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

SDS Revision: 1.1

	1. PRODUCT & COMPANY IDENTIFICATION													
1.1	Product Name:	OPEN CELL SANDING PADS 5 PC												
1.2	Chemical Name:	Aluminum Ox	de-Fiber											
1.3	Synonyms:	P/N 69600												
1.4	Trade Names:	Warrior												
1.5	Product Uses & Restrictions:	Abrasive												
1.6	Distributor's Name:		t Tools USA, In	C.										
1.7	Distributor's Address:		Road, Calaba		USA									
1.8	Emergency Phone:													
1.9	Chewrite: +1 (103) 321-3001 / +1 (000) 424-3300 (CCN 070007)													
				ZARDS I										
2.1	2.1 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 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).													
1			0 1											
		3. CC	MPOSITI	ON & INC	REDI	ENT	INF	OR					2	
						10	CILL		EXPC NOHSC	SURE LI	MITS IN	AIR (mg OSHA	g/m³)	
						ACGIH NOHSC			ppm					
								ES-	ES-	ES-				
CHEMI	CAL NAME(S)	CAS No. 1344-28-1	RTECS No. BD1200000	EINECS No. 215-691-6	%	TLV (10)	STEL	TWA NF	STEL NF	PEAK NF	PEL	STEL	IDLH	OTHER
ALUM	NUM OXIDE		Acute Tox. Inh. 5		60-100	(10)	NA	INF	INF	INF	(10)	NA	NA	
		NA	NA	NA	10-30	NA	NA	NF	NF	NF	NA	NA	NA	
PAPE	R, CLOTH, OR FIBER													
FPOX	Y RESIN	NA	NA	NA	10-30	NA	NA	NF	NF	NF	NA	NA	NA	
EI OX														
			4	FIRST AI		SU	RES							
4.1	First Aid:	Ingestion:		_			_		nitina	Conta	rt the	neares	t Poise	on Control Center
														ingested and the
			amount of the s											9
			1 0	, ,		copio	us am	ounts	of luke	ewarm	water	for at	least	15 minutes lifting
		<u>Skin</u> :		ly with soap a		In ca	se of c	ontact	, imme	ediately	flush	skin w	ith pler	nty of water for at
		Inhalation:		to fresh air a								ygen.	If brea	athing stops give
4.2	Effects of Exposure:		artificial respira							ittentio	n.			
7.2		Eyes:	Exposure to d	If product is swallowed, may cause gastrointestinal disturbance. Exposure to dust may cause eye irritation. Symptoms of overexposure may include redness, itching,										
		<u>Skin</u> :		g to skin. The	e product	can c	ause a	allergic	skin r	eactior	ns (e.g	g., rash	ies, we	elts, dermatitis) in
			some sensitive Coughing, whe		ess of br	ath i	mpaire	d pulm	nonary	function	on. I	ritation	or so	preness in throat,
			nose and respi	0.		Jacii, ii	mpane		lionary	lanou	011. 1	manor	1 01 00	nonioco in iniciai,
4.3	Symptoms of Overexposure:		If product is sw		0									
			Exposure to d irritation and wa		e eye irri	tation.	Sym	ptoms	of ov	erexpo	sure	may ir	clude	redness, itching,
		<u>Skin</u> :		g to skin. The	e product	can c	ause a	allergic	skin r	eactior	ns (e.g	g., rash	ies, we	elts, dermatitis) in
		Inhalation:		ezing, shortne	ess of bre	eath, ii	mpaire	d pulm	nonary	functi	on. li	rritatior	n or so	preness in throat,

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SDS Revision: 1.1

4.5 Chrc 4.6 Targ 4.7 Med Aggr Signal 5.1 Fire 5.2 Extin 5.3 Firef 6.1 Spill 7.1 Wor	ute Health Effects: ronic Health Effects: rget Organs: dical Conditions gravated by Exposure: e & Explosion Hazards: tinguishing Methods: efighting Procedures:	Moderate irritation to eyes and s wheezing, shortness of breath, ir Possible allergic dermatitis in sor Eyes, Skin, Respiratory System. Pre-existing dermatitis, other skin Pre-existing dermatitis, other skin This material can burn but will r decompose at high temperatures CO ₂ , Dry Chemical, Alcohol Foan Keep containers cool until well af fire, wear MSHA/NIOSH approv protective gear. Keep containe exposed surfaces and to protect dilution from entering sewers, dr must use full bunker gear inclu						
4.5 Chrc 4.6 Targ 4.7 Med Aggr Signal 5.1 Fire 5.2 Extin 5.3 Firef 6.1 Spill 7.1 Wor	ronic Health Effects: rget Organs: dical Conditions gravated by Exposure: e & Explosion Hazards: tinguishing Methods:	wheezing, shortness of breath, ir Possible allergic dermatitis in sor Eyes, Skin, Respiratory System. Pre-existing dermatitis, other skin Start Stress Start Stress This material can burn but will r decompose at high temperatures CO ₂ , Dry Chemical, Alcohol Foar Keep containers cool until well af fire, wear MSHA/NIOSH approv protective gear. Keep containe exposed surfaces and to protect dilution from entering sewers, dr must use full bunker gear inclu	mpaired pulmonary function. Irritation or soreness in throat, nose and respiratory tract. me sensitive individuals n conditions. HEALTH 1 FLAMMABILITY 0 PHYSICAL HAZARDS 0 PROTECTIVE EQUIPMENT B EYES SKIN FIGHTING MEASURES not readily ignite. However, if involved in a fire, this product may is to form toxic gases (e.g., CO, CO ₂ hydrocarbons). m. Use water spray to cool containers. fter the fire is out. Fight fires as for surrounding materials. As in any red self-contained breathing apparatus (pressure-demand) and fullers cool until well after the fire is out. Use water spray to cool fire-tt personnel. Fight fire upwind. Prevent runoff from fire control or					
4.6 Targ 4.7 Med Agg Second 5.1 Fire 5.2 Extir 5.3 Fire 6.1 Spill 7.1 Wor	rget Organs: edical Conditions gravated by Exposure: e & Explosion Hazards: tinguishing Methods:	Eyes, Skin, Respiratory System. Pre-existing dermatitis, other skin S. FIRE This material can burn but will r decompose at high temperatures CO ₂ , Dry Chemical, Alcohol Foan Keep containers cool until well af fire, wear MSHA/NIOSH approv protective gear. Keep containe exposed surfaces and to protect dilution from entering sewers, dr must use full bunker gear inclu	h conditions. HEALTH 1 FLAMMABILITY 0 PHYSICAL HAZARDS 0 PROTECTIVE EQUIPMENT B EYES SKIN FIGHTING MEASURES The readily ignite. However, if involved in a fire, this product may as to form toxic gases (e.g., CO, CO ₂ hydrocarbons). The use water spray to cool containers. Ther the fire is out. Fight fires as for surrounding materials. As in any red self-contained breathing apparatus (pressure-demand) and fullers cool until well after the fire is out. Use water spray to cool firety personnel. Fight fire upwind. Prevent runoff from fire control or					
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Agg 5.1 Fire 5.2 Extir 5.3 Firef 6.1 Spill 7.1 Wor	gravated by Exposure: e & Explosion Hazards: tinguishing Methods:	5. FIRE This material can burn but will r decompose at high temperatures CO ₂ , Dry Chemical, Alcohol Foan Keep containers cool until well af fire, wear MSHA/NIOSH approv protective gear. Keep containe exposed surfaces and to protect dilution from entering sewers, dr must use full bunker gear inclu	FLAMMABILITY 0 PHYSICAL HAZARDS 0 PROTECTIVE EQUIPMENT B EYES SKIN FIGHTING MEASURES not readily ignite. However, if involved in a fire, this product may is to form toxic gases (e.g., CO, CO ₂ hydrocarbons). m. Use water spray to cool containers. fter the fire is out. Fight fires as for surrounding materials. As in any red self-contained breathing apparatus (pressure-demand) and fullers cool until well after the fire is out. Use water spray to cool fire-tr personnel. Fight fire upwind. Prevent runoff from fire control or					
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5.2 Extir 5.3 Firef 6.1 Spill 7.1 Wor	tinguishing Methods:	decompose at high temperatures CO ₂ , Dry Chemical, Alcohol Foan Keep containers cool until well af fire, wear MSHA/NIOSH approv protective gear. Keep containe exposed surfaces and to protect dilution from entering sewers, dr must use full bunker gear inclu	s to form toxic gases (e.g., CO, CO ₂ hydrocarbons). m. Use water spray to cool containers. Itter the fire is out. Fight fires as for surrounding materials. As in any red self-contained breathing apparatus (pressure-demand) and full ers cool until well after the fire is out. Use water spray to cool fire- t personnel. Fight fire upwind. Prevent runoff from fire control or					
5.3 Firef 6.1 Spill 7.1 Wor		CO ₂ , Dry Chemical, Alcohol Foan Keep containers cool until well af fire, wear MSHA/NIOSH approv protective gear. Keep containe exposed surfaces and to protect dilution from entering sewers, dr must use full bunker gear inclu	m. Use water spray to cool containers. fter the fire is out. Fight fires as for surrounding materials. As in any red self-contained breathing apparatus (pressure-demand) and full ers cool until well after the fire is out. Use water spray to cool fire- t personnel. Fight fire upwind. Prevent runoff from fire control or					
6.1 Spill 7.1 Wor	efighting Procedures:	Keep containers cool until well af fire, wear MSHA/NIOSH approv protective gear. Keep containe exposed surfaces and to protect dilution from entering sewers, dr must use full bunker gear inclu	fter the fire is out. Fight fires as for surrounding materials. As in any ved self-contained breathing apparatus (pressure-demand) and full ers cool until well after the fire is out. Use water spray to cool fire- t personnel. Fight fire upwind. Prevent runoff from fire control or					
7.1 Wor		deficiencies.	uding NIOSH-approved positive pressure self-contained breathing ential hazardous combustion or decomposition products and oxygen					
7.1 Wor		6 ACCIDEN	TAL RELEASE MEASURES					
7.1 Wor	ille:		uals involved in cleanup must wear appropriate Personal Protective Equipment. Plasti					
		precautions are required for inta equipment. Do not use compre Efficiency Particulate (HEPA) fil containers or sealed plastic bags sewers and open bodies of water						
			& STORAGE INFORMATION					
	ork & Hygiene Practices:	dust with soap and warm water.	n handling this product. Handle as to avoid puncturing container(s). Wash particulat					
7.2 Stor	brage & Handling:		rell-ventilated location (e.g., local exhaust ventilation, fans) away from heat and direct over 120 °F. Keep away from incompatible substances.					
7.3 Spe	ecial Precautions:	Clean all spills promptly. Particul	late may present a slipping hazard.					
		8. EXPOSURE CONT	TROLS & PERSONAL PROTECTION					
8.1 Exp	posure Limits:		ACGIH NOHSC OSHA OTHER					
	m (mg/m ³)	CHEMICAL NAME(S)	TLV STEL ES-TWA ES-STEL ES-PEAK PEL STEL IDLH					
		ALUMINIUM OXIDE	15 NA NF NF NF 15 NA NA					
	ntilation & Engineering ntrols:	exhaust ventilation to effectively	or natural ventilation is sufficient when this product is in use. Use local or generated remove and prevent buildup of dusts generated from the use of this product. Ensur upment is available (e.g., sink, safety shower, eye-wash station).					
8.3 Res	spiratory Protection:	needed, use only protection auth	generated when using this product, and respiratory protection is norized by 29 CFR §1910.134, applicable U.S. State regulations, or 4.4-93 and applicable standards of Canadian Provinces, EC member					
8.4 Eye	e Protection:	Avoid eye contact. Use equip government standards such as N	oment for eye protection tested and approved under appropriate IIOSH (US) or EN 166(EU).					
8.5 Han			mended under normal conditions of use to avoid abrasions and nds. If necessary, refer to U.S. OSHA 29 CFR §1910.138, the a, or the EU member states.					
8.6 Body	nd 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.						

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SDS Revision: 1.1

9.1		9. PHYSICAL & CHEMICAL PROPERTIES
	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:	3.5
9.12	Solubility:	Insoluble
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. 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
	Acute Toxicity:	Lavailable for some of the components of the product, but is not presented in this document
11.3	Acute Toxicity.	available for some of the components of the product, but is not presented in this document. See Section 4.4
	Chronic Toxicity:	See Section 4.4
11.4		
11.4 11.5	Chronic Toxicity:	See Section 4.4 See Section 4.5
11.4 11.5	Chronic Toxicity: Suspected Carcinogen:	See Section 4.4 See Section 4.5 NA This product is not reported to produce reproductive toxicity in humans.
11.4 11.5	Chronic Toxicity: Suspected Carcinogen: Reproductive Toxicity:	See Section 4.4 See Section 4.5 NA
11.4 11.5	Chronic Toxicity: Suspected Carcinogen: Reproductive Toxicity: Mutagenicity:	See Section 4.4 See Section 4.5 NA This product is not reported to produce reproductive toxicity in humans. This product is not reported to produce mutagenic effects in humans.
11.4 11.5	Chronic Toxicity: Suspected Carcinogen: Reproductive Toxicity: Mutagenicity: Embryotoxicity:	See Section 4.4 See Section 4.5 NA This product is not reported to produce reproductive toxicity in humans. This product is not reported to produce mutagenic effects in humans. This product is not reported to produce embryotoxic effects in humans. This product is not reported to produce embryotoxic effects in humans.
11.3 11.4 11.5 11.6 11.7	Chronic Toxicity: Suspected Carcinogen: Reproductive Toxicity: Mutagenicity: Embryotoxicity: Teratogenicity:	See Section 4.4 See Section 4.5 NA This product is not reported to produce reproductive toxicity in humans. This product is not reported to produce mutagenic effects in humans. This product is not reported to produce embryotoxic effects in humans. This product is not reported to cause teratogenic effects in humans.
11.4 11.5 11.6 11.7	Chronic Toxicity: Suspected Carcinogen: Reproductive Toxicity: Mutagenicity: Embryotoxicity: Teratogenicity: Reproductive Toxicity:	See Section 4.4 See Section 4.5 NA This product is not reported to produce reproductive toxicity in humans. This product is not reported to produce mutagenic effects in humans. This product is not reported to produce embryotoxic effects in humans. This product is not reported to cause teratogenic effects in humans. This product is not reported to cause teratogenic effects in humans. This product is not reported to cause teratogenic effects in humans. This product is not reported to cause teratogenic effects in humans. This product is not reported to cause reproductive effects in humans.
11.4 11.5 11.6 11.7 11.8	Chronic Toxicity: Suspected Carcinogen: Reproductive Toxicity: Mutagenicity: Embryotoxicity: Teratogenicity: Reproductive Toxicity: Irritancy of Product:	See Section 4.4 See Section 4.5 NA This product is not reported to produce reproductive toxicity in humans. This product is not reported to produce mutagenic effects in humans. This product is not reported to produce embryotoxic effects in humans. This product is not reported to cause teratogenic effects in humans. This product is not reported to cause teratogenic effects in humans. This product is not reported to cause teratogenic effects in humans. This product is not reported to cause reproductive effects in humans. The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) upon prolonged or repeated exposure.
11.4 11.5 11.6 11.7 11.8	Chronic Toxicity: Suspected Carcinogen: Reproductive Toxicity: Mutagenicity: Embryotoxicity: Teratogenicity: Reproductive Toxicity: Irritancy of Product: Biological Exposure Indices:	See Section 4.4 See Section 4.5 NA This product is not reported to produce reproductive toxicity in humans. This product is not reported to produce mutagenic effects in humans. This product is not reported to produce embryotoxic effects in humans. This product is not reported to cause teratogenic effects in humans. This product is not reported to cause teratogenic effects in humans. This product is not reported to cause teratogenic effects in humans. This product is not reported to cause reproductive effects in humans. The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) upon prolonged or repeated exposure. NE
11.4 11.5 11.6 11.7 11.8	Chronic Toxicity: Suspected Carcinogen: Reproductive Toxicity: Mutagenicity: Embryotoxicity: Teratogenicity: Reproductive Toxicity: Irritancy of Product: Biological Exposure Indices:	See Section 4.4 See Section 4.5 NA This product is not reported to produce reproductive toxicity in humans. This product is not reported to produce mutagenic effects in humans. This product is not reported to produce embryotoxic effects in humans. This product is not reported to cause teratogenic effects in humans. This product is not reported to cause teratogenic effects in humans. This product is not reported to cause teratogenic effects in humans. This product is not reported to cause reproductive effects in humans. The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) upon prolonged or repeated exposure. NE
11.4 11.5 11.6 11.7 11.8 11.9	Chronic Toxicity: Suspected Carcinogen: Reproductive Toxicity: Mutagenicity: Embryotoxicity: Teratogenicity: Reproductive Toxicity: Irritancy of Product: Biological Exposure Indices:	See Section 4.4 See Section 4.5 NA This product is not reported to produce reproductive toxicity in humans. This product is not reported to produce mutagenic effects in humans. This product is not reported to produce embryotoxic effects in humans. This product is not reported to cause teratogenic effects in humans. This product is not reported to cause teratogenic effects in humans. This product is not reported to cause teratogenic effects in humans. This product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) upon prolonged or repeated exposure. NE Treat symptomatically. There are no specific data available for this product.
11.4 11.5 11.6 11.7 11.7 11.8 11.9 12.1 12.2	Chronic Toxicity: Suspected Carcinogen: Reproductive Toxicity: Mutagenicity: Embryotoxicity: Teratogenicity: Reproductive Toxicity: Irritancy of Product: Biological Exposure Indices: Physician Recommendations: Environmental Stability: Effects on Plants & Animals:	See Section 4.4 See Section 4.5 NA This product is not reported to produce reproductive toxicity in humans. This product is not reported to produce mutagenic effects in humans. This product is not reported to produce embryotoxic effects in humans. This product is not reported to cause teratogenic effects in humans. This product is not reported to cause teratogenic effects in humans. This product is not reported to cause reproductive effects in humans. This product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) upon prolonged or repeated exposure. NE Treat symptomatically. There are no specific data available for this product. There are no specific data available for this product.
11.4 11.5 11.6	Chronic Toxicity: Suspected Carcinogen: Reproductive Toxicity: Mutagenicity: Embryotoxicity: Teratogenicity: Reproductive Toxicity: Irritancy of Product: Biological Exposure Indices: Physician Recommendations: Environmental Stability:	See Section 4.4 See Section 4.5 NA This product is not reported to produce reproductive toxicity in humans. This product is not reported to produce mutagenic effects in humans. This product is not reported to produce embryotoxic effects in humans. This product is not reported to cause teratogenic effects in humans. This product is not reported to cause teratogenic effects in humans. This product is not reported to cause teratogenic effects in humans. This product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) upon prolonged or repeated exposure. NE Treat symptomatically. There are no specific data available for this product.
11.4 11.5 11.6 11.7 11.7 11.8 11.9 12.1 12.2	Chronic Toxicity: Suspected Carcinogen: Reproductive Toxicity: Mutagenicity: Embryotoxicity: Teratogenicity: Reproductive Toxicity: Irritancy of Product: Biological Exposure Indices: Physician Recommendations: Environmental Stability: Effects on Plants & Animals:	See Section 4.4 See Section 4.5 NA This product is not reported to produce reproductive toxicity in humans. This product is not reported to produce mutagenic effects in humans. This product is not reported to produce embryotoxic effects in humans. This product is not reported to cause teratogenic effects in humans. This product is not reported to cause teratogenic effects in humans. This product is not reported to cause reproductive effects in humans. The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) upon prolonged or repeated exposure. NE Treat symptomatically. There are no specific data available for this product. There are no specific data available for this product. There are no specific data available for this product. There are no specific data available for this product.
11.4 11.5 11.6 11.7 11.8 11.9 12.1 12.2	Chronic Toxicity: Suspected Carcinogen: Reproductive Toxicity: Mutagenicity: Embryotoxicity: Teratogenicity: Reproductive Toxicity: Irritancy of Product: Biological Exposure Indices: Physician Recommendations: Environmental Stability: Effects on Plants & Animals:	See Section 4.4 See Section 4.5 NA This product is not reported to produce reproductive toxicity in humans. This product is not reported to produce mutagenic effects in humans. This product is not reported to produce embryotoxic effects in humans. This product is not reported to cause teratogenic effects in humans. This product is not reported to cause teratogenic effects in humans. This product is not reported to cause reproductive effects in humans. This product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) upon prolonged or repeated exposure. NE Treat symptomatically. There are no specific data available for this product. There are no specific data available for this product.
11.4 11.5 11.6 11.7 11.7 11.8 11.9 12.1 12.2	Chronic Toxicity: Suspected Carcinogen: Reproductive Toxicity: Mutagenicity: Embryotoxicity: Teratogenicity: Reproductive Toxicity: Irritancy of Product: Biological Exposure Indices: Physician Recommendations: Environmental Stability: Effects on Plants & Animals:	See Section 4.4 See Section 4.5 NA This product is not reported to produce reproductive toxicity in humans. This product is not reported to produce mutagenic effects in humans. This product is not reported to produce embryotoxic effects in humans. This product is not reported to produce embryotoxic effects in humans. This product is not reported to cause teratogenic effects in humans. This product is not reported to cause teratogenic effects in humans. This product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) upon prolonged or repeated exposure. NE Treat symptomatically. There are no specific data available for this product. There are no specific data available for this product. There are no specific data available for this product. There are no specific data available for this product.

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SDS Revision: 1.1

		14. TRANSPORTATION INFORMATION					
Tho	basic description (ID Nun	nber, proper shipping name, hazard class & division, packing group) is shown for each mode of transportation. Additional					
desc	criptive information may be	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>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					
15.5	Other Federal Requirements.	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	15.7 State Regulatory Information: <u>Alumina (Aluminum Oxide)</u> is found on the following state criteria list: Massachusetts Hazardous Substances List Minnesota Hazardous Substances List (MN), New Jersey Right-to-Know List (NJ), and Washington Perm 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					
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

HAZARD RATINGS:

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	EXPOSURE LIMITS IN AIR:						
ACGIH	American Conference on Governmental Industrial Hygienists						
C 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	FIRST AID MEASURES:						

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		HEALTH					
1	Slight Hazard		FLAMMABILITY					
2	Moderate Hazard		PHYSICAL HAZARDS					
3	Severe Hazard		PERSONAL PROTECTION					
4	Extreme Hazard							

PERSONAL PROTECTION RATINGS:

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в						н		E)	當	8
С			4 T			I		E)		
D	B		H.			J		E)	Î	
Е						κ	5	E)		
F			招望			Χ	Consult special I				r SOPs fo s.
Sa	Safety Glasses Splas			Goggles	Ρ		Shield &		Gloves		
Image: Boots Synthetic Apr				ic Apron	Ρ	Protective Clothing & Full Suit			Dust Respirator		
				3			(P) All Face		Airline Hood/Mask		
Full I	ace Respi	rator		apor Half- espirator			spirator		AIri	or SC	
ОТН	ER STAN	DARD	ABBRE	VIATIONS	S:						
	ML		um Limit								
	mg/m3			ubic meter							
L	NA		ailable								
L	ND		etermined								
L	NE		tablished								
L	NF	Not Fo									

NF	Not Found					
NR	No Results					
ppm	parts per million					
SCBA	Self-Contained Breathing Apparatus					
NATIONAL FI	RE PROTECTION ASSOCIATION: NFPA					
FLAMMABILI	TY 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					

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

UEL

HAZARD	RATINGS:										
0				FL	AMMABILITY						
1	- 5			RE	ACTIVITY						
2						1	/				
3											
4		Hazard	$\frac{\text{ard}}{2}$								
ACD					X						
ALK											
COR	Corrosive	e		н		···/					
₩	Use No V	Vater	SPECIAL								
OX	Oxidizer						ECAUTIONS				
TREFOIL	Radioact	ive									
TOXICOLO	OGICAL IN	FORMAT	ION:								
	LD	50 Lethal I s	Dose (solids	& liquids) wh	ich kills 50%	of the expos	sed animals				
	LC	50 Lethal of	Lethal concentration (gases) which kills 50% of the exposed animal								
	рр	m Concer	Concentration expressed in parts of material per million parts								
	TD	lo Lowest	Lowest dose to cause a symptom								
	TCL	.o Lowest	concentratio	n to cause a	symptom						
TD _{lo} , I	D _{lo} , & LD _o	or Lowest	dose (or con	centration) to	o cause letha	l or toxic effe	cts				
TC, TC,	, LC _{Io} , & LC	20									
	IAR	C Internat	ional Agency	for Researc	h on Cancer						
	NT	P Nationa	I Toxicology	Program							
	RTEC	S Registr	/ of Toxic Eff	ects of Cherr	nical Substan	ces					
	BC	F Biocond	Bioconcentration Factor								
	TL	m Median	Median threshold limit								
log K	ow or log K	c Coeffici	Coefficient of Oil/Water Distribution								
REGULAT	REGULATORY INFORMATION:										
WHMIS	Canadiar	n Workplace	orkplace Hazardous Material Information System								
DOT			ransportatior								
TC											
EPA	U.S. Env	ironmental F	Protection Ag	ency							
DSL	Canadiar	n Domestic S	Substance Lis	st							
NOHSC	National	Occupationa	upational Health and Safety Commission (Australia)								
NDSL			stic Substan		,	,					
PSL	-		ostances List								
TSCA			Control Act								
EU			opean Union	Directive 67	(548/EEC)						
WGK			lassen (Gerr		,						
HMIS-III	0	-			ous Materials	Identification	n System				
WORKPL					ICATION (
_	_										
\bigcirc	۲	٨	Ø	()	۲	EX	Ŕ				
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	B/EEC) INI	ORMATIC	DN:	-		-					
		M	*	8	&	×	×				
с	E	F	N	0	т	Xi	Xn				
Corrosive	Explosive	Flammable	Harmful	Oxidizing	Toxic	Irritant	Harmful				
			TOGRAMS		1	1	1				

Image: Weight of the state of the

 GHS01
 GHS02
 GHS03
 GHS04
 GHS05
 GHS06
 GHS07
 GHS08
 GHS09

 Explosive
 Flammable
 Oxidizer
 Pressurized
 Corrosive
 Toxic
 Harmful Irritating
 Health Hazard
 Environmen