HARBOR FREIGHT TOOLS Quality Teols at Ridiculously Low Prices

SAFETY DATA SHEET

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	ared to OSHA, ACC, ANSI, N	OHSC, WHMIS,	2001/58 & 1272/2	008/EC Standar	ds		SDS	Revisior	n: 1.1		SDS	Revision D	ate: 7/	25/2015
							1				1			
		1	PRODUC	T & COM	ΡΔΝΥ	IDF	NTIF		τιοι	N				
1.1	Product Name:		GRIT MET											
1.2	Chemical Name:	Metal Oxides	_				.L 2.							
1.2	Synonyms:	P/N 61355												
1.4	Trade Names:	Warrior												
1.5	Product Uses & Restrictions:		brasive Wheel											
1.6	Distributor's Name:		larbor Freight Tools USA, Inc.											
1.7	Distributor's Address:	U.	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-	· · · ·	521-50017	+1 (000	<i>)</i>	-3300	5 (00	1 07	0007	/			
		11 (000) 000	1000											
			2. H/		IDENT	IFIC	ΑΤΙΟ	DN						
2.1	Hazard Identification:	This product	is classified a						as DA	NGEF	ROUS	GOODS		
			the classifica											
1		WARNING!	MAY CAUSE A	N ALLERGIC	SKIN RE	ACTIO	N. M/	Y BE	HARN	IFUL	IF INH	ALED.		•
1			: Skin Sens. 1B	·										$\mathbf{\Delta}$
1			ements (H): H3	17 – May cau	se an alle	ergic sk	in rea	ction.	H333	– Ma	y be h	armful if		
1		inhaled.	· Ctatamanta //		المحمد المناحد	الم الم الم	-1 D1	04.5	040			D. O II -		
			<u>Statements</u> (F) NTER/doctor if											
			302+P352 – IF											•
		occurs: Get	medical advic	e/attention.	P501 –	Dispos	e of o	content	s/cont	ainer	to a	licensed		
			orage or dispose											
		3. C	OMPOSIT	<u>ION & IN(</u>	GRED	IENT	INF	ORN	IAT	ION				
										SURE L	IMITS IN	AIR (mg/m	3)	
						ACO		1	NOHSC			OSHA		
						рр	m	ES-	ppm ES-	ES-		ppm		
CHEMI	ICAL NAME(S)	CAS No.	RTECS No.	EINECS No.	%	TLV	STEL	TWA	STEL	PEAK	PEL	STEL ID	LH	OTHER
ALUM	IINUM OXIDE	1344-28-1	BD1200000	215-691-6	60-100	(10)	NA	NF	NF	NF	(10)	NA N	A	
		Skin Sens. 1E 15096-52-3	3; Acute Tox. Inh. WA9625000	5; H317, H333 239-148-8	5-10	NA	NA	NF	NF	NF	(2.5)	NA (2	50) (2.5) NIOSH
SODIL	UM ALUMINUM FLUORIDE		STOT RE 1; Aqu							111	(2.0)	10/((2	00)	
	201.400	NA	NA	NA	3-7	NA	NA	NF	NF	NF	NA	NA N	A	
FIBER	KGLASS													
			1											
SILICO		7631-86-9	VV7310000	231-545-4	3-7	NA	NA	(2)	NF	NF	20 *	NA (30	000) (6) NIOSH * mppcf
SILICO	ON DIOXIDE	Eye Irrit. 2A; S	STOT SE 3; H319	, H335										6) NIOSH * mppcf
					3-7 3-7	NA NA	NA	(2) NF	NF NF	NF NF	20 * NA		000) (IA	6) NIOSH * mppcf
WOLL	ON DIOXIDE ASTONITE	Eye Irrit. 2A; 5 13983-17-0	STOT SE 3; H319 NA), H335 237-772-5	3-7	NA	NA	NF	NF	NF	NA	NA N	IA	6) NIOSH * mppcf
WOLL	ON DIOXIDE	Eye Irrit. 2A; 3 13983-17-0 1309-37-1	STOT SE 3; H319), H335 237-772-5 215-168-2	3-7 0-0.1							NA N		6) NIOSH * mppcf
WOLL	ON DIOXIDE ASTONITE	Eye Irrit. 2A; 3 13983-17-0 1309-37-1	STOT SE 3; H319 NA NO7400000), H335 237-772-5 215-168-2	3-7 0-0.1	NA	NA	NF	NF	NF	NA	NA N	IA	6) NIOSH * mppcf
WOLL	ON DIOXIDE ASTONITE	Eye Irrit. 2A; 3 13983-17-0 1309-37-1	NO7400000 ye Irrit. 2A; STOT), H335 237-772-5 215-168-2	3-7 0-0.1 19, H335	NA (5)	NA	NF	NF	NF	NA	NA N	IA	6) NIOSH * mppcf
WOLL	ON DIOXIDE ASTONITE	Eye Irrit. 2A; 3 13983-17-0 1309-37-1	STOT SE 3; H319 NA NO7400000 ye Irrit. 2A; STOT 4.	, H335 237-772-5 215-168-2 SE 3; H315, H3	3-7 0-0.1 19, H335 D ME	(5)	NA NA	NF (5)	NF NF	NF	NA (10)	NA NA N	IA A	
WOLL	ON DIOXIDE ASTONITE OXIDE	Eye Irrit. 2A; 3 13983-17-0 1309-37-1 Skin Irrit. 2; E	NOT SE 3; H319 NA NO7400000 ye Irrit. 2A; STOT 4. Ingestion unlik or local emerg	, H335 237-772-5 215-168-2 SE 3; H315, H3 FIRST AI ely; however, i jency number.	3-7 0-0.1 19, H335 D ME Provide	(5) ASUI	NA NA RES ot induc	NF (5) ce vom	NF NF iting.	NF NF Conta	NA (10)	NA N	IA IA oison	6) NIOSH * mppcf
WOLL	ON DIOXIDE ASTONITE OXIDE	Eye Irrit. 2A; 3 13983-17-0 1309-37-1 Skin Irrit. 2; E	NO7400000 ye Irrit. 2A; STOT 4. Ingestion unlik or local emerg amount of the	, H335 237-772-5 215-168-2 SE 3; H315, H3 FIRST AI ely; however, jency number. substance tha	3-7 0-0.1 19, H335 D ME if ingested Provide t was swa	(5) (5) (5) (5) (5) (5) (5) (5) (5) (5)	NA NA RES ot induc	NF (5) ce vom of the t	NF NF iting.	NF NF Conta t whic	NA (10) http://www.com/com/ (10)	NA NA N NA NA N nearest P naterial w	IA IA oison vas in	Control Cente gested and the
WOLL	ON DIOXIDE ASTONITE OXIDE	Eye Irrit. 2A; 3 13983-17-0 1309-37-1 Skin Irrit. 2; E	NO7400000 ye Irrit. 2A; STOT 4. Ingestion unlik or local emerg amount of the If product gets	, H335 237-772-5 215-168-2 SE 3; H315, H3 FIRST AI ely; however, gency number. substance tha s in the eyes,	3-7 0-0.1 19, H335 D ME if ingested Provide t was swa flush with	(5) (5) (5) (5) (5) (5) (5) (5) (5) (5)	NA NA RES ot induc	NF (5) ce vom of the t	NF NF iting.	NF NF Conta t whic	NA (10) http://www.com/com/ (10)	NA NA N NA NA N nearest P naterial w	IA IA oison vas in	Control Cente gested and the
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WOLL	ON DIOXIDE ASTONITE OXIDE	Eye Irrit. 2A; 5 13983-17-0 1309-37-1 Skin Irrit. 2; E	NOT400000 ye Irrit. 2A; STOT 4. Ingestion unlik or local emerg amount of the If product gets upper and low Wash thoroug least 15 minute Remove victin	y, H335 237-772-5 215-168-2 SE 3; H315, H3 FIRST AI ely; however, i gency number. substance that s in the eyes, er lids, occasic hly with soap a es. n to fresh air	3-7 0-0.1 19, H335 D ME fingested Provide t was swa flush with onally. and water at once.	NA (5) ASUI d, do nc an est allowed. n copion . In cas If brea	NA NA RES ot induction imate us amount se of control	NF (5) ce vom of the t ounts c ontact, is diffic	NF NF iting. time a of luke imme cult, ac	NF NF Conta t whic warm diately dminis	NA (10) (10) (10) (10) (10) (10) (10) (10)	NA N	JA J	Control Cente
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4.1	ON DIOXIDE ASTONITE OXIDE First Aid:	Eye Irrit. 2A; 3 13983-17-0 1309-37-1 Skin Irrit. 2; E Ingestion: Eyes: Skin: Inhalation: Ingestion: Eyes:	NOT400000 ye Irrit. 2A; STOT 4. Ingestion unlik or local emerg amount of the If product gets upper and low Wash thoroug least 15 minut Remove victin artificial respira If product is sv Exposure to c irritation and w May be irritatin some sensitive	y, H335 237-772-5 215-168-2 SE 3; H315, H3 FIRST AI rely; however, i gency number. substance tha s in the eyes, er lids, occasic hly with soap a es. n to fresh air ation. vallowed, may dust may caus vatering. ng to skin. ne individuals. eezing, shortm	3-7 0-0.1 19, H335 D ME/ if ingested Provide t was swa flush with onally. and water at once. erson war cause ga se eye irr he produc	NA (5) (5) (6) (6) (6) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7	NA NA RES ot induction imate us amount se of co tathing t and g stinal Sym	NF (5) (5) ce vom of the t ounts c ontact, is diffic get mec disturb ptoms llergic	NF NF iting. time a of luke imme cult, ac dical a ance. of ove skin re	NF NF Conta t whic warm diately dminis ttentio	NA (10) (10) (10) (10) (10) (10) (10) (10)	NA N	JA J	Control Cente gested and the is minutes lifting y of water for a ning stops give edness, itching

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SDS Revision: 1.1 SDS Revis

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 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, Lungs, Respiratory System. 4.7 Medical Conditions HEALTH Pre-existing dermatitis, other skin conditions. 1 Aggravated by Exposure: FLAMMABILITY 0 0 PHYSICAL HAZARDS **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, CO₂, Hydrocarbons) Extinguishing Methods: 5.2 CO₂, Dry Chemical, Foam. Use water spray to cool containers. 53 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 personnel. Fight fire upwind. 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, 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 Work & Hygiene Practices: 7.1 Do not eat, drink or smoke when handling this product. 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. 7.3 Special Precautions: Clean all dusts and particulates promptly as they present a slip and fall hazard. 8. EXPOSURE CONTROLS & PERSONAL PROTECTION ACGIH NOHSC Exposure Limits: OSHA OTHER 8.1 ppm (ma/m³) STE CHEMICAL NAME(S) TLV STEL ES-TWA ES-STEL ES-PEAK PEL IDLH 1 ALUMINIUM OXIDE (10)NA NF NF NF (10) NA NA (2.5) NIOSH SODIUM ALUMINUM FLUORIDE NA NA NF NF NF (2.5) NA (250) SILICON DIOXIDE NA NA (2) NF NF 20 * NA (3000)(6) NIOSH * mppcf (5) NF NF NA **IRON OXIDE** NA (5) (10) NA CRYSTALLINE SILICA (0.025) NA NF (5) (0.1) NF (0.1)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.

HARBOR FREIGHT TOOLS

9.14

9.15

9.16

9.17

Autoignition Temperature:

Viscosity:

Other Information:

Decomposition Temperature:

NA

NA

NA

NA

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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

Tep	ared to OSHA, ACC, ANSI, N	VORSC, WHIVIS, 2007/36 & 1272/2006/EC Statituatus SDS Revision. 1.1 SDS Revision Date. 7/25/2013									
	8.	EXPOSURE CONTROLS & PERSONAL PROTECTION – cont'd									
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).									
3.5	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:	Dark brown to black solid article									
9.2	Odor:	Odorless									
9.3	Odor Threshold:	NA									
9.4	pH:	NA									
9.5	Melting Point/Freezing Point:	2100 °C (3812 °F) – Alumina									
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:	2.0									
9.12	Solubility:	Insoluble									
9.13	Partition Coefficient (log Pow):	NA									

10. STABILITY & REACTIVITY

10.1	Stability:	Stable under normal conditions.
10.2	Hazardous Decomposition Products:	Oxides of carbon (CO, CO ₂), metal oxides, particulates.
10.3	Hazardous Polymerization:	Will not occur.
10.4	Conditions to Avoid:	Open flames, high heat, incompatible substances and direct sunlight.
10.5	Incompatible Substances:	Avoid extreme heat and ignition sources. Store away from oxidizers, strong acids and alkalis.

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 anin available for some of the components of the				entific literature, is						
11.3	Acute Toxicity:	ee Section 4.4										
11.4	Chronic Toxicity:	See Section 4.5										
11.5	Suspected Carcinogen:		rystalline Silica (finely divided Silicon Dioxide) is listed as ACGIH Group A2 (Suspected human carcinogen); NIOSH Decupational carcinogen); NTP13 (Reasonably Anticipated to be a Human Carcinogen); CA65 (cancer).									
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 eml	bryotoxic effects in hu	mans.								
	Teratogenicity:	This product is not reported to cause terato	This product is not reported to cause teratogenic effects in humans.									
	Reproductive Toxicity:	This product is not reported to cause repro-	ductive effects in hum	ans.								
11.7	Irritancy of Product:	The product can cause allergic skin reactio	ns (e.g., rashes, welts	s, dermatitis) upon p	prolonged or repeate	ed exposure.						
11.8	Biological Exposure Indices:	NE										
11.9	Physician Recommendations:	Treat symptomatically.										
		12. ECOLOGIC		ΓΙΟΝ								
12.1	Environmental Stability:	There are no specific data available for this	s product.									
12.2	Effects on Plants & Animals:	There are no specific data available for this	s product.									
12.3	Effects on Aquatic Life:	There are no specific data available for this	s product.									

HARBOR FREIGHT TOOLS

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

13. DISPOSAL CONSIDERATIONS

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

 13.2
 Special Considerations:
 NA

14. TRANSPORTATION INFORMATION

The basic description (ID Number, proper shipping name, hazard class & division, packing group) is shown for each mode of transportation. Additional descriptive information may be 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 (RQ):	NA
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	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). <u>Iron Oxide</u> is found on the following state criteria lists: FL, MA, MN, NJ and PA. <u>Silicon Dioxide</u> is found on the following state criteria lists: FL, MA, MN, NJ and PA. <u>Crystalline Silica (finely divided Silicon Dioxide)</u> is found on the following state criteria lists: FL, MA, MN, NJ and PA. 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). NOTE: This product contains a substance(s) known to the State of California to cause cancer, birth defects, or other reproductive harm.
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.

HARBOR FREIGHT TOOLS Quality Tools at Ridiculously Low Prices

SAFETY DATA SHEET

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Prepa	ared to OSHA, ACC, ANS	SI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards		SDS Revision: 1.1	SDS Revision Date: 7/25/2015						
		16. OTHER IN	IFORMA	TION							
16.1	Other Information:	 WARNING! MAY CAUSE AN ALLERGIC SKIN REACTION. MAY BE HARMFUL IF INHALED. Avoid breathing IF INHALED: Call a POISON CENTER/doctor if you feel unwell. Wear protective gloves/eye protection/face prote IF ON SKIN – Wash with soap and water. If skin irritation occurs: Get medical advice/attention. KEEP OUT OF RE OF CHILDREN. NOTE: This product contains a substance(s) known to the State of California to cause cancer, birth defects, or reproductive harm. 									
16.2	Terms & Definitions:	See last page of this Safety Data Sheet.									
16.3	Disclaimer:	This Safety Data Sheet is offered pursuant government regulations must be reviewed for Tools USA, Inc.'s knowledge, the informat accuracy, suitability or completeness is not g provided. The information contained herein other materials, all component properties m consult the latest edition.	or applicability ion contained guaranteed ar relates only	to this product. To the herein is reliable and no warranties of any to the specific product(e best of ShipMate's & Harbor Freight d accurate as of this date; however, type, either expressed or implied, are s). If this product(s) is combined with						
16.4	Prepared for:	Harbor Freight Tools USA, Inc. 26541 Agoura Road Calabasas, CA 91302 USA Tel: +1 (805) 388-1000 http://www.harborfreight.com		BOR FREIGHT							
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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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:

Explosive

Flammable

Oxidizer

Pressurized

Corrosive

Toxic

0 Minimal Hazard1 Slight Hazard

2 Moderate 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	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	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-	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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Е						Κ	5	E		R	
F			A.			Χ	Consult special I				
Sa	efety Glasse	es	Splash	Goggles	Pr		Shield 8 ive Eyew			Glove	es
	Boots		Syntheti	c Apron	Pr		ive Cloth	ing	Dus	st Resp	birator
Full B	Face Respire	rator		apor Half-			III Face				d/Mask
1	ER STAN		Mask Re		S:	Re	spirator			or SCE	ВА
	ML		num Limit								
<u> </u>	mg/m3		ams per cu	ibic meter							
<u> </u>	NA		vailable								
	ND	Not D	etermined								
	NE	Not Es	stablished								
	NF	Not Fo	ound								

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 FIF	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

Lower Explosive Limit - lowest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source $% \left({{{\rm{D}}_{\rm{T}}}} \right) = 0$

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

	iviode	rate Ha	azard								/	
3	re Haza											
4	4 Extreme Ha							1		2		
ACE	Acidio	;						\leq		<u> </u>	/	
ALM	K Alkali	ne							_ .	\sim		
COF	Corro	sive		HEALTH								
¥	Use N	lo Wat	er									
0)	-		-								ECIAL	
TREFOIL	Radio	active								Ph	ECAUTION	
TOXICOL		_ INFO	ORMA	TION:								
		LD ₅₀			olids	& liqui	ids) wh	ich ł	kills 50%	of the expo	sed anima	
		LC ₅₀	Lethal	concent	ration	(gase	es) whic	ch ki	lls 50% o	f the expose	ed animal	
		ppm								er million pa		
		TDIo	Lowes	t dose to	caus	e a sy	/mptom	1				
	1	CLo	Lowes	t concen	tratio	n to ca	ause a	sym	ptom			
TD _{lo} ,	LD _{io} , & L	D _o or								or toxic effe	ects	
	o, LC _{lo} , 8			``			,					
		ARC	Interna	tional A	gency	for R	esearc	h on	Cancer			
		NTP	Nation	al Toxico	ology	Progra	am					
	RT	ECS	Regist	ry of Tox	kic Eff	ects o	f Cherr	ical	Substan	ces		
		BCF	Biocon	centratio	on Fa	ctor						
		TL _m	Mediar	n thresho	old lim	nit						
log K	ow or log		Coeffic	cient of C	Dil/Wa	ter Di	stributio	on				
REGULA	ORY IN	FOR	ΜΑΤΙΟ	N:								
WHMIS	-	-	-		tous N	/ateri	al Infor	mati	on Syster	n		
DO			orkplace Hazardous Material Information System nent of Transportation									
TC	-		anada									
EPA			nmental Protection Agency									
DSI			omestic Substance List									
NOHSC			cupational Health and Safety Commission (Australia)									
NDSL			Ion-Domestic Substance List									
PSL			riority Substances List									
TSCA			Substance Control Act									
EL	· ·		nion (European Union Directive 67/548/EEC) hrdungsklassen (German Water Hazard Class) int & Coatings Association Hazardous Materials Identification System									
WGP	-											
HMIS-II												
WORKPL	ACE HA	ZAR	DOUS	MATE	RIAL	s ide	NTIF	CA	TION (V	VHMIS) S	YSTEM:	
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Class A	Class B	(Class C	Class	D1	Clas	ss D2	C	ass D3	Class E	Class F	
Compressed	Flammabl	e O	xidizing	Tox	ic	Irrit	rritation Infectious			Corrosive	Reactive	
EC (67/54	8/EEC)	INFO	RMATI	ON:								
			er.	¥	2	×	3	×		×	×	
С	E		F	N			0		Т	Xi	Xn	
Corrosive	Explosiv	e Fl	ammable	Harn	nful	Oxi	dizing		Toxic	Irritant	Harmful	
CLP/GHS	(1272/2	008/E	C) PIC	TOGR	AMS	:				1	1	
				5	2	- Per					¥.,	
	V			\checkmark					$\mathbf{\vee}$			
GHS01	GHS02	GHS	603 0	GHS04	GH	S05	GHS06		GHS07	GHS08	GHS09	

Harmful

Irritating

Health

Hazard

Environmen