HARBOR FREIGHT TOOLS

SAFETY DATA SHEET

Page 1 of 5 **HFT-99984**

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	1.	PRODUCT 8	COMPANY	IDENTIFICATION
-------------------------------------	----	-----------	---------	----------------

	11 1 1100001 0 001111 7111 107111011					
1.1	Product Name:	2 IN MEDIUM GRADE FIBER SURFACE CONDITIONING DISCS 5 PC				
1.2	Chemical Name:	Metal Oxides				
1.3	Synonyms:	P/N 99984				
1.4	Trade Names:	Warrior				
1.5	Product Uses & Restrictions:	Abrasive				
1.6	Distributor's Name:	Harbor Freight Tools USA, Inc.				
1.7	Distributor's Address:	26541 Agoura Road, Calabasas, CA 91302 USA				
1.8	Emergency Phone:	CHEMTREC: +1 (703) 527-3887 / +1 (800) 424-9300 (CCN 676687)				
1.9	Business Phone / Fax:	+1 (805) 388-1000				

2. HAZARDS IDENTIFICATION

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).



3. COMPOSITION & INGREDIENT INFORMATION

								EXPO	SURE L	IMITS IN	I AIR (m	g/m³)	
					AC	GIH		NOHSC			OSHA		
					pp	m		ppm			ppm		
CHEMICAL NAME(S)	CAS No.	RTECS No.	EINECS No.	%	TLV	STEL	ES- TWA	ES- STEL	ES- PEAK	PEL	STEL	IDLH	OTHER
BACKING PAPER OR CLOTH OR	NA NA	NA	NA NA	30-60	NA	NA	NF	NF	NF	NA	NA	NA	OTHER
FIBER													
ZIRCONIUM	7440-67-7	ZH7070000	231-176-9	25-40	0.5	NA	1.5	NA	NA	3	1.5	NA	
ZIRCONIOW	Pyr. Sol. 1, Wa	ter React. 1; H25	0, H260										
ALUMINUM OXIDE	1344-28-1	BD1200000	215-691-6	15-30	15	NA	NF	NF	NF	15	NA	NA	
ALOMINOM OXIDE	Skin Sens. 1B; Acute Tox. Inh. 5; H317, H333												
CURED ADHESIVE ORGANIC	NA	NA	NA	5-25	NA	NA	NF	NF	NF	NA	NA	NA	
GLUE OR RESIN COMBINATION													
INORGANIC FLUORIDES	NA	NA	NA	1-5	NA	NA	NF	NF	NF	NA	NA	NA	
INORGANIC I LOOKIDES													

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

8.4

Eye Protection:

Avoid eye contact.

government standards such as NIOSH (US) or EN 166(EU).

SAFETY DATA SHEET

Page 2 of 5

HARBOR FREIGHT TOOLS HFT-99984 Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision: 1.1 SDS Revision Date: 7/25/2015 4. FIRST AID MEASURES - cont'd 4.3 Symptoms of Overexposure: If product is swallowed, may cause gastrointestinal disturbance. Ingestion: Exposure to dust may cause eye irritation. Symptoms of overexposure may include redness, itching, Eyes: irritation and watering. May be irritating to skin. The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) in Skin: some sensitive individuals. Inhalation: Coughing, wheezing, shortness of breath, impaired pulmonary function. Irritation or soreness in throat, nose and respiratory tract. 4.4 Acute Health Effects: 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: 4.5 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, 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: 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 Exposure Limits: ACGIH NOHSC OSHA OTHER ppm (ma/m³) 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 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.

Use equipment for eye protection tested and approved under appropriate

SAFETY DATA SHEET

Page 3 of 5 **HFT-99984**

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

SDS Revision: 1.1

SDS Revision Date: 7/25/2015

reduce risk of exposure to hands If necessary, refer to U.S. OSHA 29 CFR §1910.138, the appropriate standards of Canada, or the Elementer states. No approx required under normal circumstances; however, it is recommended. Upon completion of work activities using this producity, wash any exposed areas shoroughly with soap and water. If it necessary, refer to appropriate standards of Canada, the EU member states, or U.S. OSHA. 9. PHYSICAL & CHEMICAL PROPERTIES 1. Appearance: Solid article Odorless O		8. I	EXPOSURE CONTROLS & PERSONAL PROTECTION – cont'd
Mosp Protection: No aprior required under normal circumstances, however, it is recommended. Upon completion of work activities using his producity, wash any exposed areas thoroughly with soop and water. If work of the produce o	8.5	Hand Protection:	reduce risk of exposure to hands If necessary, refer to U.S. OSHA 29 CFR §1910.138, the
Solid article Solid article Solid article Solid article Solid article Solid revenue; NA Solida Production Solida Production NA Solida Production Solida	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
Solid article Solid article Solid article Solid article Solid article Solid revenue; NA Solida Production Solida Production NA Solida Production Solida			9. PHYSICAL & CHEMICAL PROPERTIES
Odor Odorfess Od	9.1	Appearance:	
He	9.2	Odor:	
15 Maria ProutFreezing Ports. NA	9.3	Odor Threshold:	
Residence NA Na Na Na Na Na Na Na	9.4	pH:	
Residence NA Na Na Na Na Na Na Na	9.5	Melting Point/Freezing Point:	
Paulipoint	9.6	Initial Boiling Point/Boiling	
Book Department Departmen	0.7		
Vigor Pressire NA	9.7	· · · · · · · · · · · · · · · · · · ·	NA
19 Vagor Pressure: NA	9.8		NA NA
Relative Density: NA NA NA NA NA NA NA NA	9.9		NA NA
Solubility NA NA NA NA NA NA NA N	9.10	Vapor Density:	NA
Partition Coefficient (log P _m): NA	9.11	Relative Density:	NA NA
Autogration Temperature: NA	9.12	Solubility:	NA NA
1.14 Autogration Temperature: NA NA	9.13	Partition Coefficient (log Pow):	
1.1. Viscosity: NA 1.7. Other Information: NA 1.7. Other Information: NA 1.8. Stability: Stable under normal conditions; unstable with heat or contamination. 2. Hazardous Decomposition Products: Oxides of carbon (CO, CO ₂). 3. Hazardous Polymerization: Will not occur. 3. Hazardous Polymerization: Will not occur. 4. Conditions to Avoid: Open flames, sparks, high heat, incompatible substances and direct sunlight. 4. Avoid extreme heat and ignition sources. Store away from oxidizers. 1. TOXICOLOGICAL INFORMATION 1. Routes of Entry: This product has NOT been tested on animals to obtain toxicology data. Toxicology data, found in scientific literature, it available for some of the components of the product, but is not presented in this document. 4. Chronic Toxicity: See Section 4.5 4. Suspected Carcinogen: NA 4. Chronic Toxicity: See Section 4.5 4. Reproductive Toxicity: This product is not reported to produce embryotoxic effects in humans. 4. Embryotoxicity: This product is not reported to produce embryotoxic effects in humans. 4. Embryotoxicity: This product is not reported to cause terratogenic effects in humans. 4. Transperiently: This product is not reported to cause terratogenic effects in humans. 4. Transperiently: This product is not reported to cause terratogenic effects in humans. 4. This product is not reported to cause terratogenic effects in humans. 4. This product is not reported to cause terratogenic effects in humans. 4. This product is not reported to cause terratogenic effects in humans. 4. This product is not reported to cause terratogenic effects in humans. 4. The product of the product of the product effects in humans. 4. The product of the product of the product effects in humans. 4. The product is not reported to cause terratogenic effects in humans. 4. The product is not reported to cause terratogenic effects in humans. 4. The product is not reported to cause terratogenic effects in humans. 4. The product is not reported to cause terratogenic effects in humans. 4. The product is not reported	9.14	Autoignition Temperature:	NA .
10. STABILITY & REACTIVITY 11. Stability: 12. Hazardous Decomposition Products: 13. Acute Toxicity: 14. Conditions of Each of Loronic Toxicity: 15. Suspendia Carcinogen: 16. Reproductive Toxicity: 17. This product is not reported to produce reproductive toxicity in humans. 18. Reproductive Toxicity: 19. This product is not reported to cause teratogenic effects in humans. 19. Physician Recommendations: 19. Physician Recommendations: 19. This product is not reported to cause reproductive effects in humans. 19. Physician Recommendations: 19. This product is not reported to cause reproductive effects in humans. 19. Physician Recommendations: 19. This product is not reported to cause reproductive effects in humans. 19. Physician Recommendations: 19. This product is not reported to cause reproductive effects in humans. 19. Physician Recommendations: 19. There are no specific data available for this product. 20. Effects on Aquatic Life: 21. There are no specific data available for this product. 22. Effects on Plants & Animals: 23. DISPOSAL CONSIDERATIONS 24. Waste Disposal: 25. Dispose of in accordance with federal, state, provincial and local regulations.	9.15	Decomposition Temperature:	NA NA
10. STABILITY & REACTIVITY 1. Stability: 1. Stable under normal conditions; unstable with heat or contamination. 1. Oxides of carbon (CO, CO ₂). 1. Products: 1. Acute Toxicity: 1. Acute Toxicity: 1. See Section 4.4 1. Choraic Toxicity: 2. See Section 4.5 3. Superied Carcinogen: Misspecied Carcinogen: Mis	9.16	Viscosity:	NA NA
Stability: Stabile under normal conditions; unstable with heat or contamination.	9.17	Other Information:	NA NA
Stability: Stabile under normal conditions; unstable with heat or contamination.			
Oxides of carbon (CO, CO ₂). Azardous Peomposition Products: Will not occur. Oxides of carbon (CO, CO ₂). Will not occur. Oxides of carbon (CO, CO ₂). Will not occur. Oxides of carbon (CO, CO ₂). Will not occur. Oxides of carbon (CO, CO ₂). Oxides of carbon (CO, C			10. STABILITY & REACTIVITY
Products: Oxeles of carbon (cc), cc2). Hazardous Polymerization: Will not occur. Open flames, sparks, high heat, incompatible substances and direct sunlight. Avoid extreme heat and ignition sources. Store away from oxidizers. ***TOXICOLOGICAL INFORMATION** 1.1 Routes of Entry: Inhalation: YES Absorption: YES Ingestion: YES Ingestion: YES Ingestion: YES Ingestion: YES Absorption: YES Ingestion: YES Ingesting: YES Ingesting: YES Ingesting: YES Inges	10.1	Stability:	Stable under normal conditions; unstable with heat or contamination.
Note of Entry: Will not occur.	10.2		Oxides of carbon (CO, CO ₂).
Conditions to Avoid: Open flames, sparks, high heat, incompatible substances and direct sunlight. Avoid extreme heat and ignition sources. Store away from oxidizers. ***TOXICOLOGICAL INFORMATION** 1.1 Routes of Entry: Inhabition: YES Absorption: YES Ingestion: YES Ingestio	10.2		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
1.1. TOXICOLOGICAL INFORMATION 1.1. Routes of Entry: 1.2. Toxicity Data: 1.3. Acute Toxicity: 1.4. Chronic Toxicity: 1.5. Suspected Carcinogen: 1.6. Reproductive Toxicity: 1.7. This product is not reported to produce embryotoxic effects in humans. 1.8. Embryotoxicity: 1.9. This product is not reported to produce embryotoxic effects in humans. 1.9. Reproductive Toxicity: 1.1. This product is not reported to cause teratogenic effects in humans. 1.9. Reproductive Toxicity: 1.1. This product is not reported to cause teratogenic effects in humans. 1.1. This product is not reported to cause teratogenic effects in humans. 1.1. This product is not reported to cause teratogenic effects in humans. 1.1. This product is not reported to cause teratogenic effects in humans. 1.1. This product is not reported to cause teratogenic effects in humans. 1.1. This product is not reported to cause teratogenic effects in humans. 1.1. This product is not reported to cause teratogenic effects in humans. 1.1. This product is not reported to cause teratogenic effects in humans. 1.1. This product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) upon prolonged or repeated exposure. 1.2. ECOLOGICAL INFORMATION 1.3. DISPOSAL CONSIDERATIONS 3.1. Waste Disposal: 1.4. Disposal: 1.5. Dispose of in accordance with federal, state, provincial and local regulations.			
11. TOXICOLOGICAL INFORMATION Inhalation: YES			
1.1 Routes of Entry: Inhalation: YES Absorption: YES Ingestion: YES 1.2 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. 1.3 Acute Toxicity: See Section 4.4 1.4 Chronic Toxicity: See Section 4.5 1.5 Suspected Carcinogen: NA 1.6 Reproductive Toxicity: This product is not reported to produce reproductive toxicity in humans. 1.7 In product is not reported to produce mutagenic effects in humans. 1.8 Embryotoxicity: This product is not reported to produce embryotoxic effects in humans. 1.9 Tratogenicity: This product is not reported to cause teratogenic effects in humans. 1.0 Intrancy of Product: This product is not reported to cause teratogenic effects in humans. 1.7 In Intrancy of Product: The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) upon prolonged or repeated exposure. 1.8 Biological Exposure Indices: NE 1.9 Physician Recommendations: The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) upon prolonged or repeated exposure. 1.9 Physician Recommendations: There are no specific data available for this product. 1.1 Emironomental Stability: There are no specific data available for this product. 2.1 Environmental Stability: There are no specific data available for this product. 2.2 Effects on Plants & Animals: There are no specific data available for this product. 2.1 There are no specific data available for this product. 2.2 Effects on Aquatic Life: There are no specific data available for this product. 2.3 DISPOSAL CONSIDERATIONS 3.1 Waste Disposal: Dispose of in accordance with federal, state, provincial and local regulations.	10.0	moompatible cubotanees.	Avoid extreme neat and ignition sources. Store away from oxidizers.
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. See Section 4.4 See Section 4.5 Suspected Carcinogen: NA 1.6 Reproductive Toxicity: This product is not reported to produce reproductive toxicity in humans. Mutagenicity: 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 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 The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) upon prolonged or repeated exposure. **NE** **Treat symptomatically.** **Treat 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. 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. 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. 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. TOXICOLOGICAL INFORMATION
available for some of the components of the product, but is not presented in this document. Acute Toxicity: See Section 4.4 Chronic Toxicity: See Section 4.5 See Section 4.5 Seproductive Toxicity: This product is not reported to produce reproductive toxicity in humans. Mutagenicity: This product is not reported to produce embryotoxic 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. 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 1.7 Irritancy of Product The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) upon prolonged or repeated exposure. NE 1.9 Physician Recommendations: Treat symptomatically. ***Decological Exposure Indices:** There are no specific data available for this product. 2.1 Environmental Stability: 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. 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. 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. There are no specific data available for this product. There are no specific data available for this product.	11.1	Routes of Entry:	Inhalation: YES Absorption: YES Ingestion: YES
1.4 Chronic Toxicity: See Section 4.5 1.5 Suspected Carcinogen: NA 1.6 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 teratogenic effects in humans. Reproductive Toxicity: This product is not reported to cause reproductive effects in humans. 1.7 Irritancy of Product: The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) upon prolonged or repeated exposure. 1.8 Biological Exposure Indices: NE 1.9 Physician Recommendations: Treat symptomatically. 1.1 Environmental Stability: There are no specific data available for this product. 2.1 Environmental Stability: There are no specific data available for this product. 2.2 Effects on Plants & Animals: There are no specific data available for this product. 3.1 DISPOSAL CONSIDERATIONS 3.1 Waste Disposal: Dispose of in accordance with federal, state, provincial and local regulations.	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.
1.5 Suspected Carcinogen: NA 1.6 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 teratogenic effects in humans. Reproductive Toxicity: This product is not reported to cause reproductive effects in humans. 1.7 Irritancy of Product: The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) upon prolonged or repeated exposure. 1.8 Biological Exposure Indices: NE 1.9 Physician Recommendations: Treat symptomatically. 1.2. ECOLOGICAL INFORMATION 2.1 Environmental Stability: There are no specific data available for this product. 2.2 Effects on Plants & Animals: There are no specific data available for this product. 2.3 Effects on Aquatic Life: There are no specific data available for this product. 1.5 Insposal: Dispose of in accordance with federal, state, provincial and local regulations.	11.3	Acute Toxicity:	
1.5 Suspected Carcinogen: NA 1.6 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. 1.7 Irritancy of Product: The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) upon prolonged or repeated exposure. 1.8 Biological Exposure Indices: NE 1.9 Physician Recommendations: Treat symptomatically. 1.2 ECOLOGICAL INFORMATION 2.1 Environmental Stability: There are no specific data available for this product. 2.2 Effects on Plants & Animals: There are no specific data available for this product. 2.3 Effects on Aquatic Life: There are no specific data available for this product. 1.4 Waste Disposal: Dispose of in accordance with federal, state, provincial and local regulations.	11.4	Chronic Toxicity:	See Section 4.5
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. 1.7 Irritancy of Product: The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) upon prolonged or repeated exposure. 1.8 Biological Exposure Indices: NE 1.9 Physician Recommendations: Treat symptomatically. 12. ECOLOGICAL INFORMATION 2.1 Environmental Stability: There are no specific data available for this product. 2.2 Effects on Plants & Animals: There are no specific data available for this product. 2.3 Effects on Aquatic Life: There are no specific data available for this product. 13. DISPOSAL CONSIDERATIONS 3.1 Waste Disposal: Dispose of in accordance with federal, state, provincial and local regulations.	11.5	Suspected Carcinogen:	
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. 1.7 Irritancy of Product: The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) upon prolonged or repeated exposure. 1.8 Biological Exposure Indices: NE 1.9 Physician Recommendations: Treat symptomatically. 1.1 Environmental Stability: There are no specific data available for this product. 2.1 Effects on Plants & Animals: There are no specific data available for this product. 2.2 Effects on Aquatic Life: There are no specific data available for this product. 3.1 Waste Disposal: Dispose of in accordance with federal, state, provincial and local regulations.	11.6	Reproductive Toxicity:	This product is not reported to produce reproductive toxicity 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. 1.7 Irritancy of Product: The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) upon prolonged or repeated exposure. 1.8 Biological Exposure Indices: NE 1.9 Physician Recommendations: Treat symptomatically. 1.1 Environmental Stability: There are no specific data available for this product. 2.1 Environmental Stability: There are no specific data available for this product. 2.2 Effects on Plants & Animals: There are no specific data available for this product. 3.1 DISPOSAL CONSIDERATIONS 3.1 Waste Disposal: Dispose of in accordance with federal, state, provincial and local regulations.		Mutagenicity:	
Teratogenicity: This product is not reported to cause teratogenic effects in humans. This product is not reported to cause reproductive 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 1.9 Physician Recommendations: Treat symptomatically. There are no specific data available for this product. Effects on Plants & Animals: 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. 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. There are no specific data available for this product. Disposal: Dispose of in accordance with federal, state, provincial and local regulations.		Embryotoxicity:	
Reproductive Toxicity: This product is not reported to cause reproductive effects in humans. 1.7 Irritancy of Product: The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) upon prolonged or repeated exposure. 1.8 Biological Exposure Indices: NE 1.9 Physician Recommendations: Treat symptomatically. 12. ECOLOGICAL INFORMATION 2.1 Environmental Stability: There are no specific data available for this product. 2.2 Effects on Plants & Animals: There are no specific data available for this product. 2.3 Effects on Aquatic Life: There are no specific data available for this product. 3.1 Waste Disposal: Dispose of in accordance with federal, state, provincial and local regulations.		Teratogenicity:	· · · · · · · · · · · · · · · · · · ·
1.7 Irritancy of Product: The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) upon prolonged or repeated exposure. 1.8 Biological Exposure Indices: NE 1.9 Physician Recommendations: Treat symptomatically. 12. ECOLOGICAL INFORMATION 2.1 Environmental Stability: There are no specific data available for this product. 2.2 Effects on Plants & Animals: There are no specific data available for this product. 2.3 Effects on Aquatic Life: There are no specific data available for this product. 3.1 Waste Disposal: Dispose of in accordance with federal, state, provincial and local regulations.		Reproductive Toxicity:	
1.8 Biological Exposure Indices: NE 1.9 Physician Recommendations: Treat symptomatically. 12. ECOLOGICAL INFORMATION 2.1 Environmental Stability: There are no specific data available for this product. 2.2 Effects on Plants & Animals: There are no specific data available for this product. 2.3 Effects on Aquatic Life: There are no specific data available for this product. 13. DISPOSAL CONSIDERATIONS 3.1 Waste Disposal: Dispose of in accordance with federal, state, provincial and local regulations.	11.7		
1.9 Physician Recommendations: Treat symptomatically. 12. ECOLOGICAL INFORMATION 2.1 Environmental Stability: There are no specific data available for this product. 2.2 Effects on Plants & Animals: There are no specific data available for this product. 2.3 Effects on Aquatic Life: There are no specific data available for this product. 13. DISPOSAL CONSIDERATIONS 3.1 Waste Disposal: Dispose of in accordance with federal, state, provincial and local regulations.	11.8	Biological Exposure Indices:	
2.1 Environmental Stability: There are no specific data available for this product. 2.2 Effects on Plants & Animals: There are no specific data available for this product. 2.3 Effects on Aquatic Life: There are no specific data available for this product. 3.1 Waste Disposal: Dispose of in accordance with federal, state, provincial and local regulations.	11.9	Physician Recommendations:	
2.1 Environmental Stability: There are no specific data available for this product. 2.2 Effects on Plants & Animals: There are no specific data available for this product. 2.3 Effects on Aquatic Life: There are no specific data available for this product. 3.1 Waste Disposal: Dispose of in accordance with federal, state, provincial and local regulations.			
2.2 Effects on Plants & Animals: There are no specific data available for this product. 2.3 Effects on Aquatic Life: There are no specific data available for this product. 13. DISPOSAL CONSIDERATIONS 3.1 Waste Disposal: Dispose of in accordance with federal, state, provincial and local regulations.			12. ECOLOGICAL INFORMATION
2.3 Effects on Aquatic Life: There are no specific data available for this product. 13. DISPOSAL CONSIDERATIONS 3.1 Waste Disposal: Dispose of in accordance with federal, state, provincial and local regulations.	12.1	*	There are no specific data available for this product.
13. DISPOSAL CONSIDERATIONS 3.1 Waste Disposal: Dispose of in accordance with federal, state, provincial and local regulations.	12.2	Effects on Plants & Animals:	There are no specific data available for this product.
3.1 Waste Disposal: Dispose of in accordance with federal, state, provincial and local regulations.	12.3	Effects on Aquatic Life:	There are no specific data available for this product.
3.1 Waste Disposal: Dispose of in accordance with federal, state, provincial and local regulations.		·	
3.1 Waste Disposal: Dispose of in accordance with federal, state, provincial and local regulations.			13. DISPOSAL CONSIDERATIONS
	13.1	Waste Disposal:	
	13.2	Special Considerations:	

HARBOR FREIGHT TOOLS

Quality Teols at Ridiculously Low Prices

SAFETY DATA SHEET

Page 4 of 5 **HFT-99984**

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

SDS Revision: 1.1

SDS Revision Date: 7/25/2015

		14. TRANSPORTATION INFORMATION					
The	basic description (ID Nun	ber, proper shipping name, hazard class & division, packing group) is shown for each mode of transportation. Additional 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 Alumina (Aluminum Oxide), a substance subject to SARA Title III, Section 313 reporting requirements.					
15.2	SARA Threshold Planning	There are no specific Threshold Planning Quantities for the components of this product.					
15.3	Quantity: 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 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. <u>Inorganic Fluorides</u> is listed on the Priorities Substances List. WHMIS D2B (Other Toxic Effects).					
15.7	State Regulatory Information:	Alumina (Aluminum Oxide) is found on the following state criteria list: Massachusetts Hazardous Substances List (MA, Minnesota Hazardous Substances List (MN), New Jersey Right-to-Know List (NJ), and Washington Permissible Exposures List (WA). No other ingredients in this product, present in a concentration of 1.0% or greater, are listed on any of the following state criteria lists: California Proposition 65 (CA65), Delaware Air Quality Management List (DE), Florida Toxic Substances List (FL), Massachusetts Hazardous Substances List (MA), Michigan Critical Substances List (MI), Minnesota Hazardous Substances List (MN), New Jersey Right-to-Know List (NJ), New York Hazardous Substances List (NY), Pennsylvania Right-to-Know List (PA), Washington Permissible Exposures List (WA), Wisconsin Hazardous Substances List (WI).					
15.8	Other Requirements:	The primary components of this product are listed in Annex I of EU Directive 67/548/EEC: Harmful (Xn). Risk Phrases (R): 20-38 – Harmful if inhaled. Irritating to skin. Safety Phrases (S): 2-23-24-62 - Keep away from children. Do not breathe dust. Avoid contact with skin. If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label where possible.					
		16. OTHER INFORMATION					
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					

SAFETY DATA SHEET

Page 5 of 5 HFT-99984

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

SDS Revision Date: 7/25/2015

DEFINITION OF TERMS

A large number of abbreviations and acronyms appear on a SDS. Some of these that are commonly used include the following:

GENERAL INFORMATION:

CAS No.	Chemical Abstract Service Number					
EXPOSURE	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 MEASURES:

CPR Cardiopulmonary resuscitation - method in which a person whose heart has stopped receives manual chest compressions and breathing to circulate blood and provide oxygen to the body.

HMIS-III HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

0	Minimal Hazard
1	Slight Hazard
2	Moderate Hazard
3	Severe Hazard
4	Extreme Hazard



PERSONAL PROTECTION RATINGS:

TERCORNET ROTEO HORTINGO.					
Α					
В					
С					
D					
Е					
F			4		







(Ty Face Shield & Protective Eyewear



Synthetic Apron













OTHER STANDARD ABBREVIATIONS:

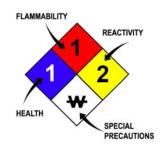
ML	Maximum Limit
mg/m3	milligrams per cubic meter
NA	Not Available
ND	Not Determined
NE	Not Established
NF	Not Found
NR	No Results
ppm	parts per million
SCBA	Self-Contained Breathing Apparatus

NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

FLAMMABILITY LIMITS IN AIR:						
Autoignition Temperature	Minimum temperature required to initiate combustion in air with no other source of ignition					
LEL	Lower Explosive Limit - lowest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source					
UEL	Upper Explosive Limit - highest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source					

HAZARD RATINGS:

THE TOTAL PORT OF THE PROPERTY			
0	Minimal Hazard		
1	Slight Hazard		
2	Moderate Hazard		
3	Severe Hazard		
4	Extreme Hazard		
ACD	Acidic		
ALK	Alkaline		
COR	Corrosive		
₩	Use No Water		
ох	Oxidizer		
TREFOIL	Radioactive		



TOXICOLOGICAL INFORMATION:

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

REGULATORY INFORMATION:

WHMIS	Canadian Workplace Hazardous Material Information System					
DOT	U.S. Department of Transportation					
TC	Transport Canada					
EPA	U.S. Environmental Protection Agency					
DSL	Canadian Domestic Substance List					
NOHSC	National Occupational Health and Safety Commission (Australia)					
NDSL	Canadian Non-Domestic Substance List					
PSL	Canadian Priority Substances List					
TSCA	U.S. Toxic Substance Control Act					
EU	European Union (European Union Directive 67/548/EEC)					
WGK	Wassergefährdungsklassen (German Water Hazard Class)					
HMIS-III	HMIS-III National Paint & Coatings Association Hazardous Materials Identification System					

WORKPLACE HAZARDOUS MATERIALS IDENTIFICATION (WHMIS) SYSTEM:

***************************************	WORKE ENGLISHED WAS A STATE OF THE PROPERTY OF								
			(3)	\odot	①				
Class A	Class B	Class C	Class D1	Class D2	Class D3	Class E	Class F		
Compressed	Flammable	Oxidizing	Toxic	Irritation	Infectious	Corrosive	Reactive		

EC (67/548/EEC) INFORMATION:

The Table		M	*			×	X	
С	E	F	N	0	Т	Xi	Xn	
Corrosive	Explosive	Flammable	Harmful	Oxidizing	Toxic	Irritant	Harmful	

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

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