


1. PRODUCT & COMPANY IDENTIFICATION

1.1	Product Name:	AIR SPARK PLUG CLEANER
1.2	Chemical Name:	Metal Oxides
1.3	Synonyms:	P/N 32860
1.4	Trade Names:	Central Pneumatic
1.5	Product Uses & Restrictions:	Abrasive Cleaning
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

2.1	Hazard Identification:	<p>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).</p> <p>DANGER! MAY CAUSE CANCER. MAY CAUSE AN ALLERGIC SKIN REACTION. CAUSES SERIOUS EYE IRRITATION. MAY CAUSE ALLERGY OR ASTHMA SYMPTOMS OR BREATHING DIFFICULTIES IF INHALED. HARMFUL IF INHALED.</p> <p><u>Classification:</u> Carc. 1A; Skin Sens. 1B; Eye Irrit. 2A; Resp. Sens. 1; Acute Tox. Inh. 4;</p> <p><u>Hazard Statements</u> (H): H317 – May cause an allergic skin reaction. H319 – Causes serious eye irritation. H332 – Harmful if inhaled. H334 – May cause allergy or asthma symptoms or breathing difficulties if inhaled. H351 – May cause cancer.</p> <p><u>Precautionary Statements</u> (P): P201 – Obtain special instructions before use. P202 – Do not handle until all safety precautions have been read and understood. P261 – Avoid breathing dust. P271 – Use only outdoors or in a well-ventilated area. P280 – Wear protective gloves/eye protection/face protection. P284 – If inadequate ventilation, wear respiratory protection. P304+P340 – IF INHALED: Remove person to fresh air and keep comfortable for breathing. P342+P311 – If experiencing respiratory symptoms: Call a POISON CENTER/doctor immediately. P312 – Call a POISON CENTER/doctor if you feel unwell. P302+P352 – IF ON SKIN: Wash with soap and water. P308+P313 – If exposed or concerned: Get medical advice/attention. P333+P313 – If skin irritation occurs: Get medical advice/attention. P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. P337+P313 – If eye irritation persists: Get medical advice/attention. P405 – Store locked up. P501 – Dispose of contents/container to a licensed treatment, storage or disposal facility (TSDF).</p>	
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3. COMPOSITION & INGREDIENT INFORMATION

[illegible]

SAFETY DATA SHEET

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

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3. COMPOSITION & INGREDIENT INFORMATION – cont'd

CHEMICAL NAME(S)	CAS No.	RTECS No.	EINECS No.	%	EXPOSURE LIMITS IN AIR (mg/m ³)									OTHER
					ACGIH		NOHSC			OSHA				
					ppm		ppm			ppm				
					TLV	STEL	ES-TWA	ES-STEL	ES-PEAK	PEL	STEL	IDLH		
POTASSIUM OXIDE	12136-45-7	NA	235-227-6	0.1-1	NA	NA	NF	NF	NF	NA	NA	NA		
MAGNESIUM OXIDE	1309-48-4	OM3850000	215-171-9	0.1-1	NA	NA	NF	NF	NF	NA	NA	NA		
MANGANESE DIOXIDE	1313-13-9	OP0350000	215-202-6	0.1-1	NA	NA	NF	NF	NF	NA	NA	NA		
SODIUM OXIDE	1313-59-3	NA	215-208-9	0.1-1	NA	NA	NF	NF	NF	NA	NA	NA		
NICKEL (II) OXIDE	Skin Corr. 1B; H314													
	1313-99-1	QR8400000	215-215-7	0.1-1	(0.2)	NA	(0.015)	NF	NF	(1)	NA	NA		
PHOSPHOROUS PENTOXIDE	Skin Sens. 1; Carc. 1A; STOT RE 1; Aquatic Chronic 4; H317, H350, H372, H413													
	1314-56-3	TH3945000	215-236-1	0.1-1	NA	NA	NF	NF	NF	NA	NA	NA		
LEAD MONOXIDE	Skin Corr. 1A; Eye Dam. 1; H314, H318													
	1317-36-8	OG1750000	215-267-0	0.1-1	(0.05)	NA	(0.05)	NF	NF	NA	NA	NA		
TIN OXIDE	Acute Tox. 4; Repr. 1A; STOT RE 2; Aquatic Acute 1; Aquatic Chronic 1; H302 + H332, H360, H373, H410													
	21651-19-4	XQ3700000	244-499-5	0.1-1	(2)	NA	(2)	NF	NF	(2)	NA	NA	(2) NIOSH	
STRONTIUM OXIDE	Skin Corr. 1B; Eye Dam. 1; H314													
	1314-11-0	NA	215-219-9	0.1-1	NA	NA	NF	NF	NF	NA	NA	NA		
VANADIUM PENTOXIDE	Skin Corr. 1B; Eye Dam. 1; H314													
	1314-62-1	YW2460000	215-239-8	0.1-1	NA	NA	NF	0.05	NF	NF	NA	NA	35	
TUNGSTEN (VI) OXIDE	Muta. 2; Repr. 2; STOT RE 1; Acute Tox. 4*; Acute Tox. 4*; STOT SE 3; Aquatic Chronic 2; H341, H361, H372, H332, H302, H335, H411													
	1314-35-8	YO7760000	215-231-4	0.1-1	(5)	(10)	(5)	NF	NF	(5)	(10)	NA	(5) NIOSH	
ZINC OXIDE	Skin Corr. 1A; Eye Dam. 1; H314, H318													
	1314-13-2	ZH4810000	215-222-5	0.1-1	(5) *	(15)	(5) *	NF	NF	(5) *	NA	(500)	* RESP DUST	
ZIRCONIUM DIOXIDE	Acute Aquatic Toxicity 1; Chronic Aquatic Toxicity 1; H400, H410													
	1314-23-4	ZH8800000	215-227-2	0.1-1	(5)	(10)	(5)	NF	NF	(5)	(10)	NA	(5) NIOSH	

4. FIRST AID MEASURES

4.1	First Aid:	<p>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.</p> <p>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.</p> <p>Skin: Wash thoroughly with soap and water. In case of contact, immediately flush skin with plenty of water for at least 15 minutes.</p> <p>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.</p>
4.2	Effects of Exposure:	<p>Ingestion: If product is swallowed, may cause gastrointestinal disturbance.</p> <p>Eyes: Exposure to dust may cause eye irritation. Symptoms of overexposure may include redness, itching, irritation and watering.</p> <p>Skin: May be irritating to skin. The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) in some sensitive individuals.</p> <p>Inhalation: Coughing, wheezing, shortness of breath, impaired pulmonary function. Irritation or soreness in throat, nose and respiratory tract.</p>
4.3	Symptoms of Overexposure:	<p>Ingestion: If product is swallowed, may cause gastrointestinal disturbance.</p> <p>Eyes: Exposure to dust may cause eye irritation. Symptoms of overexposure may include redness, itching, irritation and watering.</p> <p>Skin: May be irritating to skin. The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) in some sensitive individuals.</p> <p>Inhalation: Coughing, wheezing, shortness of breath, impaired pulmonary function. Irritation or soreness in throat, nose and respiratory tract.</p>
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.
4.5	Chronic Health Effects:	Non-irritating when used as directed. Possible allergic dermatitis in some sensitive individuals.

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4. FIRST AID MEASURES – cont'd

4.6	Target Organs:	Eyes, Skin, Lungs, Respiratory System, Heart, Liver, Kidneys						
4.7	Medical Conditions Aggravated by Exposure:	Individuals with preexisting conditions of the target organs may have increased susceptibility to the toxicity of excessive exposures.	HEALTH			2		
			FLAMMABILITY			0		
			PHYSICAL HAZARDS			0		
			PROTECTIVE EQUIPMENT			X		
			EYES	SKIN	LUNGS			

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, CO ₂ Hydrocarbons).	
5.2	Extinguishing Methods:	CO ₂ , Dry Chemical, 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 fire-exposed surfaces and to protect personal. 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

6.1	Spills:	Before cleaning any spill individuals involved in cleanup must wear appropriate Personal Protective Equipment. Plastic 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.
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7. HANDLING & STORAGE INFORMATION

7.1	Work & Hygiene Practices:	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

8.1	Exposure Limits: ppm (mg/m ³)		ACGIH		NOHSC			OSHA			OTHER
		CHEMICAL NAME(S)	TLV	STEL	ES-TWA	ES-STEL	ES-PEAK	PEL	STEL	IDLH	
		ALUMINUM OXIDE	(10)	NA	NF	NF	NF	(10)	NA	NA	
		SILICON DIOXIDE	NA	NA	(2)	NF	NF	20 *	NA	(3000)	(6) NIOSH * mppcf
		IRON OXIDE	(5)	NA	(5)	NF	NF	(10)	NA	NA	
		TITANIUM DIOXIDE	10	NA	NF	NF	NF	5	NA	5000	RESP FRAC
		BARIUM OXIDE	(0.5)	NA	(0.5)	NF	NF	(0.5)	NA	NA	(0.5) NIOSH
		CADMIUM OXIDE	(0.002)	NA	NF	(0.01)	NF	NA	NA	9	
		COBALT OXIDE	(0.02)	NA	(0.02)	NF	NF	NA	NA	NA	
		CHROMIUM TRIOXIDE	(.05)	NA	NF	NF	NF	5 µg	NA	NA	
		CUPRIC OXIDE	(0.01)	NA	NF	NF	NF	(0.01)	NA	NA	
		NICKEL OXIDE	(0.2)	NA	(0.015)	NF	NF	(1)	NA	NA	
		LEA MONOXIDE	(0.05)	NA	(0.05)	NF	NF	NA	NA	NA	
		TIN OXIDE	(2)	NA	(2)	NF	NF	(2)	NA	NA	(2) NIOSH
		VANADIUM PENTOXIDE	NA	NA	NF	0.05	NF	NF	NA	NA	35
		TUNGSTEN (VI) OXIDE	(5)	(10)	(5)	NF	NF	(5)	(10)	NA	(5) NIOSH
		ZINC OXIDE	(5) *	(15)	(5) *	NF	NF	(5) *	NA	(500)	* RESP DUST
ZIRCONIUM DIOXIDE	(5)	(10)	(5)	NF	NF	(5)	(10)	NA	(5) NIOSH		
8.2	Ventilation & Engineering Controls:	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 vapors or mist generated from the handling 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.									
											






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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).	
8.5	Hand Protection:	Heavy-duty work gloves recommended under normal conditions of use to avoid abrasions and reduce risk of exposure to hands. If necessary, refer to U.S. OSHA 29 CFR §1910.138, the appropriate standards of Canada, or the EU member states.	
8.6	Body Protection:	No apron required under normal circumstances; however, it is recommended. Upon completion of work activities using this product, wash any exposed areas thoroughly with soap and water. . If necessary, refer to appropriate standards of Canada, the EU member states, or U.S. OSHA.	

9. PHYSICAL & CHEMICAL PROPERTIES

9.1	Appearance:	Multicolored Sand
9.2	Odor:	Odorless
9.3	Odor Threshold:	NA
9.4	pH:	NA
9.5	Melting Point/Freezing Point:	1370 °C (2500 °F)
9.6	Initial Boiling Point/Boiling Range:	NA
9.7	Flashpoint:	NA
9.8	Upper/Lower Flammability Limits:	NA
9.9	Vapor Pressure:	NA
9.10	Vapor Density:	NA
9.11	Relative Density:	NA
9.12	Solubility:	Insoluble
9.13	Partition Coefficient (log P _{ow}):	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.
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 animals to obtain toxicology data. Toxicology data, found in scientific literature, is available for some of the components of the product, but is not presented in this document.		
11.3	Acute Toxicity:	The product, as shipped, poses a minimal inhalation health hazard because it contains essentially no particles in the respirable size range. However, if during handling or use the particles are broken down to a size that can be inhaled, the dusts may be harmful to the respiratory system.		
11.4	Chronic Toxicity:	See Section 4.5		
11.5	Suspected Carcinogen:	<u>Crystalline Silica (finely divided Quartz)</u> is listed as ACGIH Group A2 (Suspected human carcinogen); NIOSH (Occupational carcinogen); NTP13 (Reasonably Anticipated to be a Human Carcinogen); CA65 (cancer). <u>Cadmium Oxide</u> is listed as IARC Group 1 (Carcinogenic to humans); NTP13 Group 1 (Known human carcinogen). <u>Cobalt</u> is listed as ACGIH Group A3 (Confirmed animal carcinogen with unknown relevance to human); CA65 (cancer). <u>Lead Dioxide</u> is listed as ACGIH Group A3 (Confirmed animal carcinogen with unknown relevance to human); IARC Group 2A (Probably carcinogenic to humans); NTP13 Group 2 (Reasonably Anticipated to be a Human Carcinogen); CA65 (cancer). <u>Titanium Dioxide</u> is listed as IARC Group 2B (Possibly carcinogenic to humans).		
11.6	Reproductive Toxicity:	This product is not reported to produce reproductive toxicity in humans.		
	Mutagenicity:	This product is not reported to produce mutagenic effects in humans.		
	Embryotoxicity:	This product is not reported to produce embryotoxic effects in humans.		
	Teratogenicity:	This product is not reported to cause teratogenic effects in humans.		
	Reproductive Toxicity:	This product is not reported to cause reproductive effects in humans.		
11.7	Irritancy of Product:	The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) upon prolonged or repeated exposure.		
11.8	Biological Exposure Indices:	NE		
11.9	Physician Recommendations:	Treat symptomatically.		

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12. ECOLOGICAL INFORMATION

12.1	Environmental Stability:	There are no specific data available for this product.
12.2	Effects on Plants & Animals:	There are no specific data available for this product.
12.3	Effects on Aquatic Life:	There are no specific data available for this product.

13. DISPOSAL CONSIDERATIONS



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

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 does not contain any substances 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:	<u>Cadmium</u> (and its compounds), <u>Chromium</u> (and its compounds) <u>Cobalt</u> (and its compounds), <u>Lead</u> (and its compounds), <u>Manganese</u> (and its compounds) and <u>Nickel</u> (and its compounds) are listed as Hazardous Air Pollutants (HAPs) under the Clean Air Act (CAA). <u>Cadmium</u> (and its compounds), <u>Chromium</u> (and its compounds) <u>Cobalt</u> (and its compounds), <u>Lead</u> (and its compounds), <u>Manganese</u> (and its compounds) and <u>Nickel</u> (and its compounds) are listed as Toxic Pollutants under the Clean Water Act (CWA). <u>Cadmium</u> (and its compounds) and <u>Nickel</u> (and its compounds) are listed as Priority Pollutants under the CWA. This product does not contain any Class 1 or Class 2 ozone depleters.
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/NDL. None of the components of this product are listed on the Priorities Substances List. WHMIS D2A (Other Toxic Effects). 
15.7	State Regulatory Information:	<u>Alumina (Aluminum Oxide)</u> 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>Cadmium Oxide</u> can be found on the following state criteria list: FL, MA, MN, NJ, PA and WA. <u>Chromium Trioxide</u> can be found on the following state criteria list: FL, MA, MN, NJ, PA and WA. <u>Cupric Oxide</u> can be found on the following state criteria list: CA MN, NJ and PA. <u>Zinc Oxide</u> is found on the following state criteria lists: FL, MA, MN, NJ, PA and WA. <u>Zirconium Oxide</u> is found on the following state criteria lists: MA. <u>Lead Monoxide</u> is found on the following state criteria lists: MA. <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, PA and 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). 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. 


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16. OTHER INFORMATION

16.1	Other Information:	<p>DANGER! MAY CAUSE CANCER.MAY CAUSE AN ALLERGIC SKIN REACTION. CAUSES SERIOUS EYE IRRITATION. MAY CAUSE ALLERGY OR ASTHMA SYMPTOMS OR BREATHING DIFFICULTIES IF INHALED. HARMFUL IF INHALED. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing dust. Use only outdoors or in a well-ventilated area. Wear protective gloves/eye protection/face protection. If inadequate ventilation, wear respiratory protection. IF INHALED: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER/doctor immediately. Call a POISON CENTER/doctor if you feel unwell. IF ON SKIN: Wash with soap and water. If exposed or concerned: Get medical advice/attention. If skin irritation occurs: Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Store locked up. KEEP OUT OF REACH OF CHILDREN.</p> <p>NOTE: This product contains a substance(s) known to the State of California to cause cancer, birth defects, or other reproductive harm.</p>	
16.2	Terms & Definitions:	See last page of this Safety Data Sheet.	
16.3	Disclaimer:	<p>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.</p>	
16.4	Prepared for:	Harbor Freight Tools USA, Inc. 26541 Agoura Road Calabasas, CA 91302 USA Tel: +1 (805) 388-1000 http://www.harborfreight.com	
16.5	Prepared by:	ShipMate, Inc. P.O. Box 787 Sisters, Oregon 97759-0787 USA Tel: +1 (310) 370-3600 Fax: +1 (310) 370-5700 http://www.shipmate.com	

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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
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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.
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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:

A		G													
B		H													
C		I													
D		J													
E		K													
F		X	Consult your supervisor or SOPs for special handling directions.												
<table><tr><td> Safety Glasses</td><td> Splash Goggles</td><td> Face Shield & Protective Eyewear</td><td> Gloves</td></tr><tr><td> Boots</td><td> Synthetic Apron</td><td> Protective Clothing & Full Suit</td><td> Dust Respirator</td></tr><tr><td> Full Face Respirator</td><td> Dust & Vapor Half-Mask Respirator</td><td> Full Face Respirator</td><td> Airline Hood/Mask or SCBA</td></tr></table>				Safety Glasses	Splash Goggles	Face Shield & Protective Eyewear	Gloves	Boots	Synthetic Apron	Protective Clothing & Full Suit	Dust Respirator	Full Face Respirator	Dust & Vapor Half-Mask Respirator	Full Face Respirator	Airline Hood/Mask or SCBA
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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

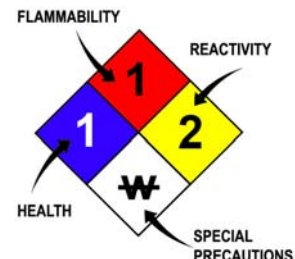
NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

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:

0	Minimal Hazard
1	Slight Hazard
2	Moderate Hazard
3	Severe Hazard
4	Extreme Hazard
ACD	Acidic
ALK	Alkaline
COR	Corrosive
W	Use No Water
OX	Oxidizer
TREFOIL	Radioactive



TOXICOLOGICAL INFORMATION:

LD ₅₀	Lethal Dose (solids & liquids) which kills 50% of the exposed animals
LC ₅₀	Lethal concentration (gases) which kills 50% of the exposed animal
ppm	Concentration expressed in parts of material per million parts
TD ₁₀	Lowest dose to cause a symptom
TCLo	Lowest concentration to cause a symptom
TD ₁₀ , LD ₁₀ , & LD ₅₀ or TC, TC ₅₀ , LC ₁₀ , & LC ₅₀	Lowest dose (or concentration) to cause lethal or toxic effects
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	National Paint & Coatings Association Hazardous Materials Identification System

WORKPLACE HAZARDOUS MATERIALS IDENTIFICATION (WHMIS) SYSTEM:

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:

C	E	F	N	O	T	Xi	Xn
Corrosive	Explosive	Flammable	Harmful	Oxidizing	Toxic	Irritant	Harmful

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

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