HARBOR FREIGHT TOOLS

# SAFETY DATA SHEET

Page 1 of 6 **HFT-96084** 

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

SDS Revision: 1.1

1.1	Product Name:		PRODUC									
1.1	Product Name:	FLINT ST	RIKER									
.2	Chemical Name:	Mixture										
.3	Synonyms:	P/N 96084										
.4	Trade Names:	Chicago Weld	ling									
.5	Product Uses & Restrictions:	Flint Striker										
1.6	Distributor's Name:	v	t Tools USA, Ir									
1.7	Distributor's Address:	-	Road, Calaba									
1.8	Emergency Phone:	CHEMTRE	C: +1 (703)	527-3887 /	+1 (800	) 424-93(	)0 (CC	N 67668	37)			
.9	Business Phone / Fax:	+1 (805) 388-	1000									
				ZARDS				<b>BANIO</b>		0000		
2.1	Hazard Identification:		is classified a he classificatio								S	
			ig off for fine m					Coue (Au	stralla).			
				•		-		IN REACT	TION.	CAUSE	s	
		-	E IRRITATION									
		Classification	: Flam. Sol. 1S	kin Sens. 1B; I	Eye Irrit. 2	; Acute Tox	. Inh. 5					
		Hazard State	ments (H): H2	28 – Flammal	ble solid.	H317 – Ma	ay caus	e an allerg	gic skin	reactio	n.	<u> </u>
			es serious eye									
			<u>/ Statements</u> (I									· · · · · · · · · · · · · · · · · · ·
			ition sources.									
			j. P280 – Wea									
			all a POISON (									< !
			nd water. P3									
			P338 – IF IN s if present and									
			NaCl), class D									•
			agents. P501									
		disposal facili		Dispose of	0011101110/	oontainer te		iocu iicuii	nont, o	loiuge (		
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		3. CC	OMPOSITI		GREDI	ENT IN	FORM	ΙΟΙΤΑΝ	N			
		3. CC	OMPOSIT		GREDI	ENT IN	FORM			IN AIR (mg	g/m <sup>3</sup> )	
		3. CC	OMPOSITI		GREDI	ENT IN				IN AIR (mg OSHA	g/m³)	
		3. CC	OMPOSITI		GREDI			EXPOSURE NOHSC ppm			g/m³)	
HEM	ICAL NAME/S)					ACGIH ppm	ES-	EXPOSURE NOHSC ppm ES- ES-		OSHA ppm		OTHER
	ICAL NAME(S)	3. CC cas no. 7440-45-1	RTECS No. FK485000	ON & IN( EINECS No. 231-154-9	<b>GREDI</b> % 30-60	ACGIH	ES-	EXPOSURE NOHSC ppm	E LIMITS	OSHA ppm	g/m <sup>3</sup> ) IDLH NA	OTHER
		CAS No.	RTECS No. FK485000	EINECS No.	%	ACGIH ppm TLV STEL	ES- TWA	EXPOSURE NOHSC ppm ES- ES- STEL PEA	E LIMITS	OSHA ppm STEL	IDLH	OTHER
ERI	UM	<b>CAS No.</b> 7440-45-1	RTECS No. FK485000	EINECS No.	%	ACGIH ppm TLV STEL	ES- TWA	EXPOSURE NOHSC ppm ES- ES- STEL PEA	K PEL	OSHA ppm STEL	IDLH	OTHER
ERI		CAS No. 7440-45-1 Flam. Sol. 1; H2: 7439-91-0	RTECS No. FK485000 28 NA	EINECS No. 231-154-9 231-099-0	% 30-60 10-30	ACGIH ppm TLV STEL NA NA	ES- TWA NF	EXPOSURE NOHSC ppm ES- STEL PEA NF NF NF NF	K PEL NA	OSHA ppm STEL NA	IDLH NA NA	OTHER
ERI ANT	UM	<b>CAS No.</b> 7440-45-1 Flam. Sol. 1; H2:	RTECS No. FK485000 28	EINECS No. 231-154-9	% 30-60	ACGIH ppm TLV STEL NA NA	ES- TWA NF	EXPOSURE NOHSC ppm ES- STEL NF NF NF	K PEL NA	OSHA ppm STEL NA	IDLH NA	OTHER
ERI ANT	JM	<b>CAS No.</b> 7440-45-1 Flam. Sol. 1; H2: 7439-91-0 7440-00-8	RTECS No. FK485000 28 NA QO8575000	EINECS No. 231-154-9 231-099-0 231-109-3	% 30-60 10-30	ACGIH ppm TLV STEL NA NA NA NA	ES- TWA NF NF	EXPOSURE NOHSC ppm ES- STEL PEA NF NF NF NF	K PEL NA NA	OSHA ppm STEL NA NA	IDLH NA NA	OTHER
ERI ANT	JM	<b>CAS No.</b> 7440-45-1 Flam. Sol. 1; H2: 7439-91-0 7440-00-8 7440-10-0	RTECS No. FK485000 28 NA QO8575000	EINECS No. 231-154-9 231-099-0	% 30-60 10-30	ACGIH ppm TLV STEL NA NA	ES- TWA NF	EXPOSURE NOHSC ppm ES- STEL PEA NF NF NF NF	K PEL NA NA	OSHA ppm STEL NA	IDLH NA NA	OTHER
ERI ANT EOI	UM HANUM DYMIUM	CAS No. 7440-45-1 Flam. Sol. 1; H2: 7439-91-0 7440-00-8 7440-10-0 Pyr. Sol. 1; H250	RTECS No. FK485000 28 NA QO8575000	EINECS No. 231-154-9 231-099-0 231-109-3 231-120-3	% 30-60 10-30 10-30 5-10	ACGIH ppm TLV STEL NA NA NA NA NA NA NA NA	ES- TWA       NF       NF       NF	EXPOSURE NOHSC ppm ES-ES- STEL PEA NF NF NF NF NF NF	K PEL NA	OSHA ppm STEL NA NA NA	IDLH NA NA NA	OTHER
ERI ANT EOI RAS	UM HANUM DYMIUM	CAS No. 7440-45-1 Flam. Sol. 1; H2: 7439-91-0 7440-00-8 7440-10-0 Pyr. Sol. 1; H250 7440-19-9	RTECS No. FK485000 28 NA QO8575000 NA	EINECS No. 231-154-9 231-099-0 231-109-3 231-120-3 231-128-7	% 30-60 10-30	ACGIH ppm TLV STEL NA NA NA NA	ES- TWA NF NF	EXPOSURE NOHSC ppm ES- STEL PEA NF NF NF NF	K PEL NA	OSHA ppm STEL NA NA	IDLH NA NA	OTHER
ERI ANT EOI RAS	HANUM DYMIUM SEODYMIUM	CAS No. 7440-45-1 Flam. Sol. 1; H2: 7439-91-0 7440-00-8 7440-10-0 Pyr. Sol. 1; H250 7440-19-9	RTECS No. FK485000 28 NA QO8575000	EINECS No. 231-154-9 231-099-0 231-109-3 231-120-3 231-128-7	% 30-60 10-30 10-30 5-10	ACGIH ppm TLV STEL NA NA NA NA NA NA NA NA	ES- TWA NF NF	EXPOSURE NOHSC ppm ES-ES- STEL PEA NF NF NF NF NF NF	K PEL NA	OSHA ppm STEL NA NA NA	IDLH NA NA NA	OTHER
ERI ANT EOI RAS	HANUM DYMIUM SEODYMIUM	CAS No. 7440-45-1 Flam. Sol. 1; H2: 7439-91-0 7440-00-8 7440-10-0 Pyr. Sol. 1; H250 7440-19-9	RTECS No.         FK485000         28         NA         QO8575000         NA         D         itter-react.3;H228,	EINECS No. 231-154-9 231-099-0 231-109-3 231-120-3 231-128-7	% 30-60 10-30 10-30 5-10 0.1-1.0	ACGIH ppm TLV STEL NA NA NA NA NA NA NA NA NA NA	ES- TWA NF NF NF NF	EXPOSURE NOHSC ppm ES-ES- STEL PEA NF NF NF NF NF NF	K PEL NA	OSHA ppm STEL NA NA NA	IDLH NA NA NA	OTHER
ERI ANT EOI RAS	HANUM DYMIUM SEODYMIUM	CAS No. 7440-45-1 Flam. Sol. 1; H2: 7439-91-0 7440-00-8 7440-10-0 Pyr. Sol. 1; H250 7440-19-9 Flam. Sol. 2; Wa	RTECS No.         FK485000         28         NA         QO8575000         NA         D         itter-react.3;H228,	EINECS No. 231-154-9 231-099-0 231-109-3 231-120-3 231-128-7 H261 FIRST AI	% 30-60 10-30 10-30 5-10 0.1-1.0	ACGIH ppm TLV STEL NA NA NA NA NA NA NA NA NA NA	ES- TWA NF NF NF NF	EXPOSURE NOHSC ppm ES- ES- STEL PEA NF NF NF NF NF NF NF NF	K PEL NA NA NA NA	OSHA ppm STEL NA NA NA	IDLH NA NA NA	
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ERI ANT EOI		CAS No. 7440-45-1 Flam. Sol. 1; H2: 7439-91-0 7440-00-8 7440-10-0 Pyr. Sol. 1; H250 7440-19-9 Flam. Sol. 2; Wa	RTECS No. FK485000 28 NA QO8575000 NA QO8575000 NA A Ingestion is ur VOMITING. emergency tel vomiting occur Flush eyes the ensure comple Remove conta	EINECS No. 231-154-9 231-099-0 231-109-3 231-120-3 231-128-7 H261 FIRST AI Nikely; howeve Contact Chem ephone numb s spontaneous proughly with the flushing. If iminated cloth	%           30-60           10-30           10-30           5-10           0.1-1.0           D MEA           er, particul           Drer for assistly, keep v           copious a           irritation p           ing and w	ACGIH ppm TLV STEL NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA SURES sistance an rictim's heac mounts of v ersists, see ash affected		EXPOSURE NOHSC ppm ES-ES- STEL PEA NF NF NF NF NF NF NF NF NF NF Or cutting or the ne cutions. S d (forward) r at least diate media with soap	K PEL NA NA NA NA NA NA NA NA NA NA NA NA NA	OSHA ppm STEL NA NA NA NA NA NA NA NA NA NA	IDLH NA NA NA NA NA ed. D Contro e med risk of lding irritati	DO NOT IND I Center or ical attention aspiration. eyelid(s) opto on persists,
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ERI ANT EOI RAS	HANUM HANUM DYMIUM SEODYMIUM ARIUM	CAS No.           7440-45-1           Flam. Sol. 1; H2:           7439-91-0           7440-00-8           7440-10-0           Pyr. Sol. 1; H250           7440-19-9           Flam. Sol. 2; Wa           Ingestion:           Skin:           Inhalation:           Ingestion:	RTECS No. FK485000 28 NA QO8575000 NA D Ingestion is ur VOMITING. C emergency tel vomiting occur Flush eyes the ensure comple Remove conta prompt medica Remove victin immediate medi Not expected r None expected	EINECS No. 231-154-9 231-099-0 231-109-3 231-120-3 231-128-7 H261 FIRST AI Nikely; howeve Contact Chem ephone numb s spontaneous proughly with the flushing. If miniated cloth attention. Do n to fresh air dical attention. oute of exposs d. May be slig	% 30-60 10-30 10-30 5-10 0.1-1.0 DME/ er, particu Trec at + per for as: sly, keep v copious a irritation p ing and w o not wear at once. . If breath ure. Inges htly irritation	ACGIH ppm TLV STEL NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA SURES lates from g 1 (703) 52 sistance an rictim's heac mounts of v ersists, see ash affected r contaminad If breathing ing stops, pr tion may ca ng.		EXPOSURE NOHSC ppm ES- ES STEL PEA NF NF NF NF NF NF NF NF NF NF NF NF Or cutting or the ne totions. S d (forward) r at least diate media with soap ing until admin artificial res strointestin	IMITS         K     PEL       NA     NA       NA     NA       NA     NA       NA     NA       NA     NA       INA     NA       INA     NA       INA     INA	OSHA ppm STEL NA NA NA NA NA NA NA NA NA NA	IDLH NA NA NA NA NA ed. D Contro e med risk of olding irritati prope ental o	PO NOT IND I Center or ical attention eyelid(s) ope on persists, rly cleaned. oxygen and
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HARBOR FREIGHT TOOLS Quality Tools at Ridiculously Low Prices

# SAFETY DATA SHEET

Page 2 of 6 **HFT-96084** 

- 1-	,,	NOHSC, WHMIS, 2001/58 & 1272/2008/EC							
		A FIDET A		ES - cont'd	1				
.5	Chronic Health Effects:			L3 = com c					
l.6	Target Organs:	No known or reported by manufact No known or reported by manufact							
.7	Medical Conditions	Individuals with allergies or impa		oction may have	HEALT	u			1
	Aggravated by Exposure:	symptoms worsened by exposure					<b>/</b>		0
		reaction cannot be predicted due							-
		and in the quantity of the decompo	sition products.			CAL HAZ			0
									В
					EYES	SKIN			
		5 EIDEE	IGHTING ME						
.1	Fire & Explosion Hazards:				na Manm		mainly		
		This product is not flammable. V containing cerium and lanthanum when struck.							
.2	Extinguishing Methods:	Water, Dry Chemical, Foam, Carbo	on Dioxide						
.3	Firefighting Procedures:	Fight fires as for surrounding ma		s should wear a	MSHA/NI	OSH app	proved or		0)
		equivalent self-contained breathing						$\langle \mathbf{X} \rangle$	× .
		from a safe distance. Keep conta	ainers cool until well	I after the fire is o	out. Preve	ent runoff	from fire	$\sim$	
		control or dilution from entering ser	wers, drains, drinkin	g water supply, o	r any natui	ral waterw	vay.		
		6. ACCIDENT			ES				
.1	Spills:	Before cleaning any spill, individu				priata Pa	reanal Protoc	tivo Equir	
	opilis.	including gloves, glasses and NIC							
		hazard. Particulate from grinding							
		the particulate, slag, dusts or pow							
		Wash all affected areas. Remov				ughly bef	fore reuse. I	Keep spills	s ai
		cleaning runoffs out of drains, mur							
		oloaning fationo out of aramo, mar	nicipal sewers and of	pen bodies of wat	er.				
	I								
.1	Work & Hygiene Practices:	7. HANDLING	& STORAGE	INFORMA	ΓΙΟΝ	nors das	es fumes an	d dusts 1	Wa
.1	Work & Hygiene Practices:	7. HANDLING A Avoid contact to eyes, skin, and	& STORAGE	INFORMA es. Avoid inhalat	<b>FION</b> ion of var				
.1	Work & Hygiene Practices:	7. HANDLING	& STORAGE I mucous membran e. Do not smoke, e	INFORMA es. Avoid inhalat eat, drink, chew	<b>FION</b> ion of vap gum or to	bacco, o	r apply cosm	etics withi	in th
		<b>7. HANDLING</b> Avoid contact to eyes, skin, and thoroughly after handling and us working area. Do not store or bring follow the standards of good indus	& STORAGE I mucous membran le. Do not smoke, e g tobacco products, strial hygiene practice	INFORMA es. Avoid inhalat eat, drink, chew gum, food, drinks es.	FION ion of vap gum or to or cosme	bacco, or tics within	r apply cosmon the working a	etics withi area. Othe	in th erwis
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3.1	Storage & Handling: Special Precautions: Exposure Limits: ppm (mg/m <sup>3</sup> )	7. HANDLING a Avoid contact to eyes, skin, and thoroughly after handling and us working area. Do not store or bring follow the standards of good indus No unusual methods are required is a sheltered warm area with tem point." Keep away from incompati container tightly closed when not in Read and understand the manuf National Standard Z-49.1, "Safet Society, P. O. Box 351040, Miami Office, Superintendent of Docume and explosion control, exposure co 8. EXPOSURE CONTI CHEMICAL NAME(S)	& STORAGE I mucous membran e. Do not smoke, e g tobacco products, strial hygiene practice . Keep product cont mperature and humi ible materials listed n use. facturer's instructior ty in Welding, Cutti i, FL 33135 and OS ents, P.O. Box 37195 ontrol and other spece ROLS & PER ACGIH TLV STEL E	INFORMAT es. Avoid inhalat eat, drink, chew gum, food, drinks es. ained and retain idity control to pre- in Section 10. O hs and the preca- ing and Allied Pi HA Publication 2. 54, Pittsburgh, P/ cial precautions. SONAL PR NOHSC ES- TWA STEL	TION ion of vaj gum or to or cosme all warning event high pen contai utionary l: rocesses," 206 (29 C. A 15250-79 OTEC ES- PEAK	pbacco, of tics within g and ider humidity ners slow abel on t publishe .F.R. 1910 954 for ac TION	r apply cosmon the working a ntity labels. Pr and "going th vly on a stable his product. d by the Am 0), U.S. Gove dditional detail	etics withi area. Othe eferred sta nrough the surface. See Ame erican We rnment Pr s regardin	in therwise orage de de Kee erica eldir rintir ng fi
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.2 .3 .1	Storage & Handling: Special Precautions: Exposure Limits: ppm (mg/m <sup>3</sup> ) Ventilation & Engineering Controls:	<ul> <li>7. HANDLING a</li> <li>Avoid contact to eyes, skin, and thoroughly after handling and us working area. Do not store or bring follow the standards of good indus</li> <li>No unusual methods are required is a sheltered warm area with tempoint." Keep away from incompati container tightly closed when not in Read and understand the manuf National Standard Z-49.1, "Safet Society, P. O. Box 351040, Miami Office, Superintendent of Docume and explosion control, exposure component is available (e.g., sink, large quantities of product and pro CAUTION: Welding or cutting mathese fumes and gases. Use add ANSI Z49.1-1967 Safety in Weldin exposure within legal limits. In the must be kept below the TLVs ar exposure as low as possible. Use</li> </ul>	STORAGE     Imucous membran     i.e. Do not smoke, e     g tobacco products,     strial hygiene practice.     Keep product cont     mperature and humi     ible materials listed     n use.     facturer's instruction     ty in Welding, Cutti     i, FL 33135 and OS     ents, P.O. Box 37199     ontrol and other spece     ROLS & PER     ACGIH     TLV STEL E     equipment to ensur     doors and windows,     safety shower, eye     vide adequate ventil     ay produce fumes a     equate ventilation. U     ag and Cutting publis     e worker's breathing     worker's breathing     ad cutting publis     e worker's breathing     ad cutting publis     ad cutting publis     ad cutting publis     ad spirable fume res     thaust or ventilation     ary, NIOSH approve     atory protection (due	INFORMAT es. Avoid inhalat eat, drink, chew gum, food, drinks es. ained and retain idity control to pre- in Section 10. O hs and the preca- ing and Allied Pri- tial precautions. SONAL PR SONAL PR ES- TWA STEL e that exposure of , local exhaust ve- wash station). U lation (e.g., local of the dy the Amer zone and the ger xposure must con- spirator or air sup does not keep e ed respirator, etc.	TION ion of vag gum or to or cosme all warning event high pen contai utionary l: ocesses," 206 (29 C. A 15250-79 OTEC ES- PEAK loes not e: entilation). Jse in a cl exhaust ve lous to he poved respi ican Weld more a larea, mpute to l plied resp xposure b rotection s	pbacco, of tics within g and ider humidity ners slow abel on t publishe F.R. 1910 954 for ac 954 for ac <b>TION</b> PEL xceed thre Ensure hemical fu entilation, f alth. Avo ratory pro- ring Societ the fume less than irator whe should be	r apply cosmo the working a hity labels. Pr and "going th dy on a stable his product. d by the Am 0), U.S. Gove ditional detail OSHA STEL IDLH STEL IDLH eshold limit va appropriate d ume hood whe fans). bid breathing tection. See ty. Keep the s and gases one. Keep an welding in TLV. Where a used. The	etics withi area. Othe eferred sta nrough the surface. See Ame erican We rnment Pr s regardin OTHER alues. Use econtamir	in therwise orage dee ericae eldir inti inti

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· upo	ared to OSHA, ACC, ANSI, M	NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision: 1.1 SDS Revision Date: 7/27/2015
	8.	EXPOSURE CONTROLS & PERSONAL PROTECTION – cont'd
3.4	Eye Protection:	Wear helmet or use face shield with filter lens according to ANSI Z87.1. Provide protective screens and flash goggles, if necessary, to shield others. Wear safety glasses with UV protective side shields or goggles. Wear contact lenses in combination with safety eyewear, except where the contact lenses create a likelihood of injury from intense heat, highly particulate atmosphere, or where their use is prohibited. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
8.5	Hand Protection:	Wear head, hand and body protection that help to prevent injury from hot metal, sparks, slag, infrared radiation, UV radiation, abrasions, contusions and heat stress. Protective clothing will not generally prevent shock except for leather if kept dry. Gloves made of leather with inside seams (or those that give equal performance) are preferred. 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:	Wear head, hand and body protection that help to prevent injury from radiation, sparks and electrical shock. Wear flame resistant ear plugs to keep sparks out of ears. See ANSI Z-49.1. The clothing may include heat/fire resistant gloves, overalls, aprons, sleeves, footwear, welder's spats and head cover. Wear garments made of leather, heavyweight tightly woven wool or cotton. Keep clothing clean (free of oil, grease or solvents) and in good repair. Do not wear clothing with frayed edges, tears or holes. Do not roll up sleeves or trousers (pants should not be cuffed). If necessary, refer to appropriate standards of Canada, the EU member states, or U.S. OSHA.
		9. PHYSICAL & CHEMICAL PROPERTIES
9.1	Appearance:	Solid, grey or silver color
9.1	Odor:	Odorless
9.3	Odor Threshold:	NA
9.4	pH:	NA
9.5	Melting Point/Freezing Point:	NA
9.6	Initial Boiling Point/Boiling Range:	NA
9.7	Flashpoint:	NA
9.8	Upper/Lower Flammability Limits:	NA
9.9	Vapor Pressure:	NA
9.10	Vapor Density:	NA
9.11	Relative Density:	NA
9.12	Solubility:	Insoluble
9.13	Partition Coefficient (log Pow):	NA
9.14	Autoignition Temperature:	NA
9.15	Decomposition Temperature:	NA
9.16	Viscosity:	NA
9.17	Other Information:	NA
-		
		10. STABILITY & REACTIVITY
10.1	Stability:	Stable under normal conditions of use (See Section 7).
	Stability: Hazardous Decomposition	Stable under normal conditions of use (See Section 7).
10.2	Hazardous Decomposition Products:	Stable under normal conditions of use (See Section 7).           Irritating vapors and toxic gases (e.g., carbon monoxide and carbon dioxide).
10.2 10.3	Hazardous Decomposition Products: Hazardous Polymerization:	Stable under normal conditions of use (See Section 7).         Irritating vapors and toxic gases (e.g., carbon monoxide and carbon dioxide).         Will not occur.
10.2 10.3 10.4	Hazardous Decomposition Products: Hazardous Polymerization: Conditions to Avoid:	Stable under normal conditions of use (See Section 7).         Irritating vapors and toxic gases (e.g., carbon monoxide and carbon dioxide).         Will not occur.         Use or storage near incompatible substances.
10.2 10.3 10.4	Hazardous Decomposition Products: Hazardous Polymerization:	Stable under normal conditions of use (See Section 7).         Irritating vapors and toxic gases (e.g., carbon monoxide and carbon dioxide).         Will not occur.
10.2 10.3 10.4	Hazardous Decomposition Products: Hazardous Polymerization: Conditions to Avoid:	Stable under normal conditions of use (See Section 7).         Irritating vapors and toxic gases (e.g., carbon monoxide and carbon dioxide).         Will not occur.         Use or storage near incompatible substances.         Strong oxidizing agents, strong acids and bases.
10.2 10.3 10.4 10.5	Hazardous Decomposition Products: Hazardous Polymerization: Conditions to Avoid: Incompatible Substances:	Stable under normal conditions of use (See Section 7).         Irritating vapors and toxic gases (e.g., carbon monoxide and carbon dioxide).         Will not occur.         Use or storage near incompatible substances.         Strong oxidizing agents, strong acids and bases.         11. TOXICOLOGICAL INFORMATION
10.2 10.3 10.4 10.5	Hazardous Decomposition Products: Hazardous Polymerization: Conditions to Avoid: Incompatible Substances: Routes of Entry:	Stable under normal conditions of use (See Section 7).         Irritating vapors and toxic gases (e.g., carbon monoxide and carbon dioxide).         Will not occur.         Use or storage near incompatible substances.         Strong oxidizing agents, strong acids and bases.         Inhalation:       NO         Absorption:       YES         Ingestion:       NO
10.2 10.3 10.4 10.5 11.1 11.2	Hazardous Decomposition Products: Hazardous Polymerization: Conditions to Avoid: Incompatible Substances: Routes of Entry: Toxicity Data:	Stable under normal conditions of use (See Section 7).         Irritating vapors and toxic gases (e.g., carbon monoxide and carbon dioxide).         Will not occur.       Use or storage near incompatible substances.         Strong oxidizing agents, strong acids and bases.       Strong oxidizing agents, strong acids and bases.         Inhalation: NO         Absorption: YES         Ingestion: NO         This material or its emission may induce an allergic of sensitization reaction and thereby aggravate existing sys disease.
10.2 10.3 10.4 10.5 11.1 11.2	Hazardous Decomposition Products: Hazardous Polymerization: Conditions to Avoid: Incompatible Substances: Routes of Entry:	Stable under normal conditions of use (See Section 7).         Irritating vapors and toxic gases (e.g., carbon monoxide and carbon dioxide).         Will not occur.         Use or storage near incompatible substances.         Strong oxidizing agents, strong acids and bases.         Inhalation: NO         Inhalation:       NO         Absorption:       YES       Ingestion:         This material or its emission may induce an allergic of sensitization reaction and thereby aggravate existing systems       Strong oxidi and thereby aggravate existing systems
10.2 10.3 10.4 10.5 11.1 11.2 11.3	Hazardous Decomposition Products: Hazardous Polymerization: Conditions to Avoid: Incompatible Substances: Routes of Entry: Toxicity Data:	Stable under normal conditions of use (See Section 7).         Irritating vapors and toxic gases (e.g., carbon monoxide and carbon dioxide).         Will not occur.         Use or storage near incompatible substances.         Strong oxidizing agents, strong acids and bases.         Inhalation: NO         Absorption:       YES         Instantion:       NO         Absorption:       YES         Ingestion:       NO         Absorption:       YES         Ingestion:       NO         Overexposure to welding fumes may cause: fever, nausea, giddiness, eye irritation to the respiratory tract and to
10.2 10.3 10.4 10.5 11.1 11.2 11.3	Hazardous Decomposition Products: Hazardous Polymerization: Conditions to Avoid: Incompatible Substances: Routes of Entry: Toxicity Data: Acute Toxicity:	Stable under normal conditions of use (See Section 7).         Irritating vapors and toxic gases (e.g., carbon monoxide and carbon dioxide).         Will not occur.       Use or storage near incompatible substances.         Strong oxidizing agents, strong acids and bases.       Strong oxidizing agents, strong acids and bases.         IntroXICOLOGICAL INFORMATION         Inhalation:       NO         Absorption:       YES         Ingestion:       NO         Overexposure to welding fumes may cause: fever, nausea, giddiness, eye irritation to the respiratory tract and to mucous membranes.         See Section 4.5
10.2 10.3 10.4 10.5 11.1 11.2 11.3 11.4 11.5	Hazardous Decomposition Products: Hazardous Polymerization: Conditions to Avoid: Incompatible Substances: Routes of Entry: Toxicity Data: Acute Toxicity: Chronic Toxicity: Suspected Carcinogen:	Stable under normal conditions of use (See Section 7).         Irritating vapors and toxic gases (e.g., carbon monoxide and carbon dioxide).         Will not occur.         Use or storage near incompatible substances.         Strong oxidizing agents, strong acids and bases.         Inhalation: NO         Absorption:       YES         Instantion:       NO         Absorption:       YES         Ingestion:       NO         Absorption:       YES         Ingestion:       NO         Absorption:       YES         Ingestion:       NO         Seese.       Overexposure to welding fumes may cause: fever, nausea, giddiness, eye irritation to the respiratory tract and to mucous membranes.         See Section 4.5       No.
10.2 10.3 10.4 10.5 11.1 11.2 11.3 11.4 11.5	Hazardous Decomposition Products: Hazardous Polymerization: Conditions to Avoid: Incompatible Substances: Routes of Entry: Toxicity Data: Acute Toxicity: Chronic Toxicity: Suspected Carcinogen: Reproductive Toxicity:	Stable under normal conditions of use (See Section 7).         Irritating vapors and toxic gases (e.g., carbon monoxide and carbon dioxide).         Will not occur.         Use or storage near incompatible substances.         Strong oxidizing agents, strong acids and bases.         Inhalation: NO         Absorption:       YES         Inhalation:       NO         Absorption:       YES         Instraction or its emission may induce an allergic of sensitization reaction and thereby aggravate existing systems.         Overexposure to welding fumes may cause: fever, nausea, giddiness, eye irritation to the respiratory tract and to mucous membranes.         See Section 4.5         No.         This product is not reported to cause reproductive toxicity in humans.
10.2 10.3 10.4 10.5 11.1 11.2 11.3 11.4 11.5	Hazardous Decomposition Products: Hazardous Polymerization: Conditions to Avoid: Incompatible Substances: Routes of Entry: Toxicity Data: Acute Toxicity: Chronic Toxicity: Suspected Carcinogen: Reproductive Toxicity: Mutagenicity:	Stable under normal conditions of use (See Section 7).         Irritating vapors and toxic gases (e.g., carbon monoxide and carbon dioxide).         Will not occur.         Use or storage near incompatible substances.         Strong oxidizing agents, strong acids and bases.         Inhalation: NO         Absorption:       YES         Inhalation:       NO         Absorption:       YES         Ingestion:       NO         This material or its emission may induce an allergic of sensitization reaction and thereby aggravate existing sys         Overexposure to welding fumes may cause: fever, nausea, giddiness, eye irritation to the respiratory tract and to mucous membranes.         See Section 4.5       No.         This product is not reported to cause reproductive toxicity in humans.         This product is not reported to produce mutagenic effects in humans.
10.2 10.3 10.4 10.5 11.1 11.2 11.3 11.4 11.5	Hazardous Decomposition Products: Hazardous Polymerization: Conditions to Avoid: Incompatible Substances: Routes of Entry: Toxicity Data: Acute Toxicity: Chronic Toxicity: Suspected Carcinogen: Reproductive Toxicity: Mutagenicity: Embryotoxicity:	Stable under normal conditions of use (See Section 7).         Irritating vapors and toxic gases (e.g., carbon monoxide and carbon dioxide).         Will not occur.         Use or storage near incompatible substances.         Strong oxidizing agents, strong acids and bases.         Inhalation: NO         Inhalation: NO         Absorption: YES       Ingestion: NO         This material or its emission may induce an allergic of sensitization reaction and thereby aggravate existing systisease.         Overexposure to welding fumes may cause: fever, nausea, giddiness, eye irritation to the respiratory tract and to mucous membranes.         See Section 4.5         No.         This product is not reported to cause reproductive toxicity in humans.         This product is not reported to produce mutagenic effects in humans.         This product is not reported to produce embryotoxic effects in humans.
10.1 10.2 10.3 10.4 10.5 11.1 11.2 11.3 11.4 11.5 11.6	Hazardous Decomposition Products: Hazardous Polymerization: Conditions to Avoid: Incompatible Substances: Routes of Entry: Toxicity Data: Acute Toxicity: Chronic Toxicity: Suspected Carcinogen: Reproductive Toxicity: Mutagenicity:	Stable under normal conditions of use (See Section 7).         Irritating vapors and toxic gases (e.g., carbon monoxide and carbon dioxide).         Will not occur.         Use or storage near incompatible substances.         Strong oxidizing agents, strong acids and bases.         Inhalation: NO         Absorption:       YES         Inhalation:       NO         Absorption:       YES         Ingestion:       NO         This material or its emission may induce an allergic of sensitization reaction and thereby aggravate existing sys         Overexposure to welding fumes may cause: fever, nausea, giddiness, eye irritation to the respiratory tract and to mucous membranes.         See Section 4.5       No.         This product is not reported to cause reproductive toxicity in humans.         This product is not reported to produce mutagenic effects in humans.

HARBOR FREIGHT TOOLS

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		11. TOXICOLOGICAL INFORMATION
11.7	Irritancy of Product:	<u>General Nuisance Dusts</u> : Many of the metal oxides generated as components of welding fume, are considered nuisance dusts (such as oxides of titanium and aluminum), which are essentially nontoxic and chemically nonirritating. Skin contact has shown no problems other than possible drying and mechanical irritation. Eye contact can produce particulate irritation. Excessive inhalation can produce mild pulmonary irritation and possible non-disabling slight fibrosis of the lungs.
11.8	Biological Exposure Indices:	NE
11.9	Physician Recommendations:	Treat symptomatically.
	-	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:	Waste disposal must be in accordance with appropriate Federal, state, provincial and local regulations.
13.2	Special Considerations:	NA
		14. TRANSPORTATION INFORMATION
The desc	basic description (ID Num riptive information may be	nber, proper shipping name, hazard class & division, packing group) is shown for each mode of transportation. Additional e required by 49 CFR, IATA/ICAO, IMDG and the CTDGR.
14.1	49 CFR (GND):	NOT REGULATED
14.2	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
	I	
		15. REGULATORY INFORMATION
15.1	SARA Reporting Requirements:	This product does not contain any substances subject to SARA Title III, section 313 reporting requirements. <u>Aluminum</u> (fumes and dusts) are subject to SARA Title 313 (EPCRA).
15.2	SARA Threshold Planning Quantity:	There are no specific Threshold Planning Quantities for the components of this product.
15.3	TSCA Inventory Status:	The components of this product are listed on the TSCA Inventory or are otherwise exempt.
15.4	CERCLA Reportable Quantity	NA
15.5	(RQ): Other Federal Requirements:	None of the ingredients are listed as Hazardous Air Pollutants (HAPs). None of the ingredients are listed as Toxic Pollutants under the Clean Water Act (CWA). None of the ingredients are listed as Priority Pollutants under the Clean
15.6	Other Canadian Regulations:	Water Act (CWA). This product does not contain any Class 1 or Class 2 ozone depletors.         This product has been classified according to the hazard criteria of the Controlled Products         Regulations (CPR) and the SDS contains all of the information required by the CPR. The components of this product are listed on the DSL/NDSL. The following chemicals are listed on the Ingredient Disclosure List: Chromium, Manganese, and Molybdenum.         WHMIS Classification: D2B (Other Toxic Effects).
15.7	State Regulatory Information:	None of the 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 not listed in Annex I of EU Directive 67/548/EEC: Harmful (Xn). <u>Risk Phrases</u> (R): 9 - Use only in well ventilated areas. <u>Safety Phrases</u> (S): 22- 36/37/39-38-51 - Do not breathe fumes. Wear suitable protective clothing, gloves and eye/face protection. In case of insufficient ventilation wear suitable respiratory equipment. Use only in well- ventilated areas.

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		16. OTHER INFO	DRMATION
16.1	Other Information:	IRRITATION. MAY BE HARMFUL IF INHALEI ignition sources. No smoking. Avoid breathing protection/face protection. IF INHALED: Call a soap and water. If skin irritation occurs: Get m several minutes. Remove contact lenses if prese Dry sand or salt (NaCl), class D dry-powder et	<b>JSE AN ALLERGIC SKIN REACTION. CAUSES SERIOUS EYE</b> <b>D.</b> Keep away from heat, hot surfaces, sparks, open flames and other g dust. Wash thoroughly after handling. Wear protective gloves/eye POISON CENTER/doctor if you feel unwell. IF ON SKIN: Wash with hedical advice/attention. IF IN EYES: Rinse immediately with water for ent and easy to do. Continue rinsing. P370+P378 – In case of fire: Use xtinguisher. DO NOT USE water, CO <sub>2</sub> -extinguisher and halogenated sed treatment, storage or disposal facility (TSDF). <b>KEEP LOCKED UP</b>
16.2	Terms & Definitions:	See last page of this Safety Data Sheet.	
16.3	Disclaimer:	government regulations must be reviewed for an Tools USA, Inc.'s knowledge, the information accuracy, suitability or completeness is not guar provided. The information contained herein rela	OSHA's Hazard Communication Standard, 29 CFR §1910.1200. Other oplicability to this product. To the best of ShipMate's & Harbor Freight contained herein is reliable and accurate as of this date; however, anteed and no warranties of any type, either expressed or implied, are ates only to the specific product(s). If this product(s) is combined with be considered. Data may be changed from time to time. Be sure to
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/	HARBOR FREIGHT TOOLS Quality Tools at Ridiculously Low Prices
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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SDS Revision Date: 7/27/2015

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

#### PERSONAL PROTECTION RATINGS:

Α	6		G			
в	0		н			
С		E 1	I			
D	B	E.J.	J			
Е			κ			
F			Х		r supervisor or ling directions.	
Sa	afety Glasses	Splash Goggles		e Shield & tive Eyewear	Gloves	5
	Boots	Synthetic Apron	Protec &	tive Clothing Full Suit	Dust Respi	rator
Full I	Face Respirator	Dust & Vapor Half- Mask Respirator		ull Face espirator	Airline Hood or SCB	
отн						

#### OTHER STANDARD ABBREVIATIONS:

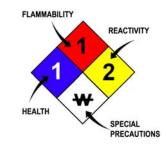
ML	Maximum Limit
mg/m3	milligrams per cubic meter
NA	Not Available
ND	Not Determined
NE	Not Established
NF	Not Found
NR	No Results
ppm	parts per million
SCBA	Self-Contained Breathing Apparatus

#### NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

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



#### TOXICOLOGICAL INFORMATION:

LD <sub>50</sub>	Lethal Dose (solids & liquids) which kills 50% of the exposed animals
LC <sub>50</sub>	Lethal concentration (gases) which kills 50% of the exposed animal
ppm	Concentration expressed in parts of material per million parts
TD <sub>lo</sub>	Lowest dose to cause a symptom
TCLo	Lowest concentration to cause a symptom
TD <sub>lo</sub> , LD <sub>lo</sub> , & LD <sub>o</sub> or	Lowest dose (or concentration) to cause lethal or toxic effects
TC, TC <sub>o</sub> , LC <sub>lo</sub> , & LC <sub>o</sub>	
IARC	International Agency for Research on Cancer
NTP	National Toxicology Program
RTECS	Registry of Toxic Effects of Chemical Substances
BCF	Bioconcentration Factor
TLm	Median threshold limit
log K <sub>ow</sub> or log K <sub>oc</sub>	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:

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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:

<b>V</b>		N	¥	8	<b>.</b>	×	×
С	E	F	N	0	т	Xi	Xn
Corrosive	Explosive	Flammable	Harmful	Oxidizina	Toxic	Irritant	Harmful

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

			$\diamondsuit$			<b>(:</b> )		
GHS01	GHS02	GHS03	GHS04	GHS05	GHS06	GHS07	GHS08	GHS09
Explosive	Flammable	Oxidizer	Pressurized	Corrosive	Toxic	Harmful Irritating	Health Hazard	Environ- ment