SAFETY DATA SHEET

Page 1 of 5 **HFT-61584**

SDS Revision: 1.1

SDS Revision Date: 7/25/2015

	1		PRODUC											
1.1	Product Name:	3 IN FIN	E GRADE	FIBER S	URFA	CE C	<u>ON</u>	DITI	ONII	NGI	DISC	<u>S</u> 5	PC	
.2	Chemical Name:	Zirconium-Fi	ber											
.3	Synonyms:	P/N 61584												
.4	Trade Names:	Warrior												
1.5	Product Uses & Restrictions:	Abrasive												
1.6	Distributor's Name:	Harbor Freig	ht Tools USA, Ir	IC.										
1.7	Distributor's Address:	26541 Agour	a Road, Calaba	sas, CA 91302	2 USA									
1.8	Emergency Phone:	CHEMTR	EC: +1 (703)	527-3887 /	+1 (800) 424	-930	0 (CC	N 67	'6687)			
1.9	Business Phone / Fax:	+1 (805) 388	-1000											
			2. HA		DENT	IFIC		ON						
2.1	Hazard Identification:	according to WARNING! Classification Hazard State inhaled. Precautionar POISON CE protection. F occurs: Get	is classified a the classifica MAY CAUSE A Skin Sens. 1B <u>ements</u> (H): H3 <u>Y Statements</u> (F) NTER/doctor if 2302+P352 – IF medical advic orage or dispose	tion criteria c N ALLERGIC ; Acute Tox. Ir 17 – May cau P): P261 – Av you feel unw ON SKIN – W e/attention.	of NOHS0 SKIN RE wh. 5 se an alle oid breatt ell. P280 /ash with P501 –	C: 108 ACTIC argic sh ning du – We soap a	88 (20)N. M kin rea ust. P ar pro	04) ar AY BE action. 304 + I tective tter. P	HARI H333 H332 -312 - glove 333+F	G Co MFUL - Ma - IF IN s/eye 2313 –	ode (A IF INH Ny be h IHALE protec If skin	narmfu D: Ca	a). I if II a ace ion	(!)
		<u> </u>	OMPOSIT		GREDI	ENI	INF	ORI					-	
						40	GIH	<u> </u>	EXPC NOHSC		IMITS IN	N AIR (n OSHA	ng/m³)	1
							om		ppm			ppm		-
						- 19		ES-	ES-	ES-		ppin		
	ICAL NAME(S)	CAS No.	RTECS No.	EINECS No.	%	TLV	STEL	TWA	STEL	PEAK		STEL	1	OTHER
IBE	KING PAPER OR CLOTH OR	NA	NA	NA	30-60	NA	NA	NF	NF	NF	NA	NA	NA	
		7440-67-7	ZH7070000	231-176-9	25-40	(0.5)	NA	1.5	NA	NA	(0.15)	(10)	NA	
IRC	MUINC		ater React. 1; H2			<u> </u>					<u> </u>	7		
	ED ADHESIVE ORGANIC OR RESIN COMBINATION	NA	NA	NA	5-25	NA	NA	NF	NF	NF	NA	NA	NA	
		NA	NA	NA	1-5	NA	NA	NF	NF	NF	NA	NA	NA	
NOR	GANIC FLUORIDES		i vi i	1473	10	101	10.1				101	101	10/1	
			4.	FIRST AI		120				0				0
1 1	First Aid:	Incastion	In a cotion unlil	alu hawayar			-+ : du		11100				SI POIS	
4.1	First Aid:	Ingestion:	Ingestion unlik or local emerg amount of the	ency number. substance that	f ingestec Provide t was swa	an est llowed	imate	of the	time a	t whic	h the	materi	al was	C
4.1	First Aid:	<u>Eyes</u> :	or local emerg amount of the If product gets upper and low	ency number. substance tha s in the eyes, er lids, occasio	f ingested Provide t was swa flush with mally.	an est llowed copio	imate us an	of the ounts	time a	it whic ewarm	the water	materi	al was t least	15 minutes liftir
4.1	First Aid:	<u>Eyes</u> : <u>Skin</u> :	or local emerg amount of the If product gets upper and low Wash thoroug least 15 minute	ency number. substance that s in the eyes, er lids, occasion hly with soap a es.	f ingestec Provide t was swa flush with onally. and water.	an est llowed copio In ca	imate us arr se of (of the ounts contact	time a of luke , imme	it whic ewarm ediatel	h the water y flush	materi for a skin v	al was t least vith ple	15 minutes liftir enty of water for
		<u>Eyes</u> : <u>Skin</u> : Inhalation:	or local emerg amount of the If product gets upper and low Wash thoroug least 15 minute Remove victin artificial respira	pency number. substance tha s in the eyes, er lids, occasic hly with soap a es. n to fresh air ation. Keep pe	f ingested Provide t was swa flush with onally. and water. at once.	an est llowed copio In ca If brea n, quie	imate us arr se of o athing et and	of the ounts contact is diffi get me	time a of luke , imme cult, a <u>dical a</u>	it whic ewarm ediatel dminis	th the water water y flush	materi for a skin v	al was t least vith ple	15 minutes liftir
	First Aid: Effects of Exposure:	Eyes: Skin: Inhalation:	or local emerg amount of the If product gets upper and low Wash thoroug least 15 minute Remove victin artificial respira If product is sv	pency number. substance tha s in the eyes, er lids, occasic hly with soap a es. n to fresh air ation. Keep pe vallowed, may	f ingested Provide t was swa flush with onally. and water. at once. erson warr cause ga	an est llowed copio In ca If brea <u>n, quie</u> strointe	imate us arr se of o athing et and estinal	of the ounts contact is diffi get me disturk	time a of luke , imme cult, a <u>dical a</u> pance.	at which ewarm ediatel dminis	th the water y flush ster ox	materi ^r for a skin v ygen.	al was t least vith ple If bre	15 minutes liftinenty of water for eathing stops give
4.1		<u>Eyes</u> : <u>Skin</u> : Inhalation:	or local emerg amount of the If product gets upper and low Wash thoroug least 15 minute Remove victin artificial respira If product is sw Exposure to o irritation and w	pency number. substance that is in the eyes, er lids, occasic hly with soap a es. in to fresh air ation. Keep pe vallowed, may dust may caus vatering.	f ingested Provide t was swa flush with onally. and water. at once. erson warr cause ga se eye irr	an est llowed copio In ca If brea <u>n, quie</u> strointe itation.	imate us arr se of o athing at and estinal Syn	of the ounts contact is diffi get me disturt nptoms	time a of luke , imme cult, a <u>dical a</u> pance. of ov	at which ewarm ediately dminis attention rerexp	th the water y flush ster ox on.	materi [,] for a skin v ygen. may i	al was t least vith ple If bre nclude	15 minutes liftinenty of water for eathing stops give redness, itching
		Eyes: Skin: Inhalation:	or local emerg amount of the If product gets upper and low Wash thoroug least 15 minute Remove victin artificial respira If product is sw Exposure to o irritation and w	pency number. substance that is in the eyes, er lids, occasic hly with soap a es. in to fresh air ation. Keep per vallowed, may dust may caus vatering. ing to skin. Th	f ingested Provide t was swa flush with onally. and water. at once. erson warr cause ga se eye irr	an est llowed copio In ca If brea <u>n, quie</u> strointe itation.	imate us arr se of o athing at and estinal Syn	of the ounts contact is diffi get me disturt nptoms	time a of luke , imme cult, a <u>dical a</u> pance. of ov	at which ewarm ediately dminis attention rerexp	th the water y flush ster ox on.	materi [,] for a skin v ygen. may i	al was t least vith ple If bre nclude	15 minutes liftinenty of water for eathing stops gi

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		4. FIRST AID MEASURES – cont'd									
4.3	Symptoms of Overexposure:	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. Skin: May be irritating to skin. The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) in some sensitive individuals. School and all and the sensitive individuals. Countries and the sensitive individuals.									
		Inhalation: Coughing, wheezing, shortness of breath, impaired pulmonary function. Irritation or soreness in throat, nose and respiratory tract.									
4.4	Acute Health Effects:	Moderate irritation to eyes and skin near affected areas. Additionally, high concentrations of dust can cause coughing, wheezing, shortness of breath, impaired pulmonary function. Irritation or soreness in throat, nose and respiratory tract.									
4.5	Chronic Health Effects:	Possible allergic dermatitis in some sensitive individuals									
4.6	Target Organs:	Eyes, Skin, Respiratory System									
4.7	Medical Conditions Aggravated by Exposure:	Pre-existing dermatitis, other skin conditions. HEALTH 1 FLAMMABILITY 0 PHYSICAL HAZARDS 0 PROTECTIVE EQUIPMENT B EYES SKIN									
F .		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 _X , Hydrocarbons).									
5.2 5.3	Extinguishing Methods: Firefighting Procedures:	CO ₂ , Dry Chemical, Alcohol Foam. Use water spray to cool containers. 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. 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									
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.									
	1	7. HANDLING & STORAGE INFORMATION									
7.1	Work & Hygiene Practices:	Do not eat, drink or smoke when handling this product. Handle as to avoid puncturing container(s). 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. Protect containers from physical damage.									
7.3	Special Precautions:	Clean all spills promptly. Spilled material may present a slipping hazard.									
		8. EXPOSURE CONTROLS & PERSONAL PROTECTION									
8.1	Exposure Limits:	ACGIH NOHSC OSHA OTHER									
	ppm (mg/m ³)	CHEMICAL NAME(S) TLV STEL ES-TWA ES-STEL ES-PEAK PEL STEL IDLH									
8.2	Vantilation & Engineering	ZIRCONIUM (0.5) NA 1.5 NA NA (0.15) (10) NA									
0.2	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 dusts generated from the use of this product. Ensure appropriate decontamination equipment is available (e.g., sink, safety shower, eye-wash station).									
8.3	Respiratory Protection:	In instances where dusts are generated when using this product, and respiratory protection is needed, use only protection authorized by 29 CFR §1910.134, applicable U.S. State regulations, or the Canadian CAS Standard Z94.4-93 and applicable standards of Canadian Provinces, EC member States, or Australia.									
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).									

9.11

9.12

9.13

9.14

9.15

9.16

9.17

Relative Density:

Other Information:

Partition Coefficient (log Pow):

Decomposition Temperature:

Autoignition Temperature:

Solubility:

Viscosity:

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NA

NA

NA

NA

NA

NA

NA

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Fieh	aleu lo OSITA, ACC, ANSI, N	5156, WHWIS, 2001/36 & 1212/2006/EC Standards 505 Revision Date. 1/25/2015
	8.	EXPOSURE CONTROLS & PERSONAL PROTECTION – cont'd
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:	Solid article
9.2	Odor:	Odorless
9.3	Odor Threshold:	NA
9.4	pH:	NA
9.5	Melting Point/Freezing Point:	NA
9.6	Initial Boiling Point/Boiling Range:	NA
9.7	Flashpoint:	NA
9.8	Upper/Lower Flammability Limits:	NA
9.9	Vapor Pressure:	NA
9.10	Vapor Density:	NA

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

11. TOXICOLOGICAL INFORMATION

11.1	Routes of Entry:	Inhalation:	YES	Absorption:	YES	Ingestion:	YES			
11.2	Toxicity Data:	This product has NOT I available for some of th				cology data, found in scie s document.	entific literature, is			
11.3	Acute Toxicity:	See Section 4.4								
11.4	Chronic Toxicity:	See Section 4.5								
11.5	Suspected Carcinogen:	NA								
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 repo	rted to cause rep	roductive effects in hum	ans.					
11.7	Irritancy of Product:	The product can cause	allergic skin reac	tions (e.g., rashes, welts	s, dermatitis) up	oon prolonged or repeate	ed exposure.			
11.8	Biological Exposure Indices:	NE								
11.9	Physician Recommendations:	Treat symptomatically.								

12. ECOLOGICAL INFORMATION ilable fe

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	2.3 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					

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		14. TRANSPORTATION	
The	basic description (ID Nur		acking group) is shown for each mode of transportation. Additional
desc	criptive information may be	e required by 49 CFR, IATA/ICAO, IMDG and the CTD	GR.
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 INF	ORMATION
15.1	SARA Reporting		t to SARA Title III, Section 313 reporting requirements.
15.2	Requirements: SARA Threshold Planning		
15.0	Quantity:	There are no specific Threshold Planning Quantities	
15.3	TSCA Inventory Status:	The components of this product are listed on the TSC	CA Inventory or are otherwise exempt.
15.4	CERCLA Reportable Quantity (RQ):	NA	
15.5	Other Federal Requirements:		ir Pollutants (HAPs). None of the ingredients are listed as Toxic of the ingredients are listed as Priority Pollutants under the Clean Class 1 or Class 2 ozone depletors.
15.6	Other Canadian Regulations:	This product has been classified according to the ha all of the information required by the CPR. The DSL/NDSL. <u>Inorganic Fluorides</u> is listed on the Prior WHMIS D2B (Other Toxic Effects).	azard criteria of the CPR and the SDS contains components of this product are listed on the
15.7	State Regulatory Information:	Zirconium is found on the following state criteria lis Know List (PA). No other ingredients in this product, present in a con criteria lists: California Proposition 65 (CA65), Dela List (FL), Massachusetts Hazardous Substances List Substances List (MN), New Jersey Right-to-Know L	t: New Jersey Right-to-Know List (NJ) and Pennsylvania Right-to- centration of 1.0% or greater, are listed on any of the following state aware Air Quality Management List (DE), Florida Toxic Substances (MA), Michigan Critical Substances List (MI), Minnesota Hazardous ist (NJ), New York Hazardous Substances List (NY), Pennsylvania posures List (WA), Wisconsin Hazardous Substances List (WI).
15.8	Other Requirements:	The primary components of this product are listed in A Harmful (Xn). <u>Risk Phrases</u> (R): 20-38 – Harmful if ir 23-24-62 - Keep away from children. Do not breath do not induce vomiting: seek medical advice immed possible.	Annex I of EU Directive 67/548/EEC: haled. Irritating to skin. <u>Safety Phrases</u> (S): 2- he dust. Avoid contact with skin. If swallowed,
		16. OTHER INFOR	ΜΑΤΙΟΝ
16.1	Other Information:		
10.1		Keep away from children. Do not breathe fumes/sp seek medical advice immediately and show this con REACH OF CHILDREN.	ACTION. MAY BE HARMFUL IF INHALED. Use only as directed. ray. Avoid contact with skin. If swallowed, do not induce vomiting: tainer or label where possible. KEEP LOCKED UP AND OUT OF
16.2	Terms & Definitions:	See last page of this Safety Data Sheet.	
16.3	Disclaimer:	government regulations must be reviewed for applic Tools USA, Inc.'s knowledge, the information con accuracy, suitability or completeness is not guarante provided. The information contained herein relates	A's Hazard Communication Standard, 29 CFR §1910.1200. Other cability to this product. To the best of ShipMate's & Harbor Freight tained herein is reliable and accurate as of this date; however, eed and no warranties of any type, either expressed or implied, are only to the specific product(s). If this product(s) is combined with 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	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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REACTIVITY

SPECIAL

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

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FLAMMABILITY

HEALTH

DEFINITION OF TERMS

HAZARD RATINGS:

3

₩

ACD Acidic ALK Alkaline COR

0 Minimal Hazard 1 Slight Hazard

2 Moderate Hazard

Corrosive

Use No Water

Severe Hazard 4 Extreme Hazard

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

GENERAL INFORMATION:

CAS No. Chemical Abstract Service Number

EXPOSURE	EXPOSURE LIMITS IN AIR:								
ACGIH	American Conference on Governmental Industrial Hygienists								
С	Ceiling Limit								
ES Exposure Standard (Australia)									
IDLH Immediately Dangerous to Life and Health									
OSHA	U.S. Occupational Safety and Health Administration								
PEL	Permissible Exposure Limit								
STEL	Short-Term Exposure Limit								
TLV	Threshold Limit Value								
TWA	Time Weighted Average								
FIRST AID M	FIRST AID MEASURES:								

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

HMIS	HMIS-III HEALTH, FLAMMABILITY & REACTIVITY RATINGS:										
0	Minimal Hazard		HEALTH								
1	1 Slight Hazard 2 Moderate Hazard		FLAMMABILITY								
2			PHYSICAL HAZARDS								
3	Severe Hazard		PERSONAL PROTECTION								
4	Extreme Hazard										

PERSONAL PROTECTION RATINGS:

ppm parts per million

FLAMMABILITY LIMITS IN AIR:

Autoignition Temperature

LEL UEL

SCBA Self-Contained Breathing Apparatus NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

source of ignition

Α						G					
В						н					
С	0		E.			I		F			
D	B		E-			J					
Е						к	3	(I)			
F			E-			X			upervisor g directio	r or SOPs ons.	; fe
Sa	Safety Glasses Splash Goggles						Shield &		Gle) oves	
	Boots		Syntheti	c Apron	F		tive Cloth	ing	Dust Re	Participation	
			8	3					Ŵ		
	Full Face Respirator OTHER STANDARD ABBREVIATIONS:						III Face spirator			lood/Mas SCBA	k
	ML		um Limit	MATIONS							
	mg/m3										
<u> </u>	NA										
	ND	Not Av Not De	etermined								
<u> </u>	NE	Not Es	tablished								
	NF	Not Fo	ound								-
	NR	No Re	sults								

Minimum temperature required to initiate combustion in air with no other

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

Upper Explosive Limit - highest percent of vapor in air, by volume, that will

explode or ignite in the presence of an ignition source

						SPECIAL							
TOXICOLOGICAL INFORMATION: Logs Lethal Dose (solids & liquids) which kills 50% of the exposed animals LOgs Lethal concentration (gases) which kills 50% of the exposed animal TOL Dis Lowest dose to cause a symptom TOL TOL Lowest dose to cause a symptom TOL TOL Lowest dose (or concentration) to cause a symptom TOL TOL Lowest dose (or concentration) to cause lethal or toxic effects TO, Lowest dose (or concentration) to cause lethal or toxic effects TC, TC, LC, LC, & LC, NTP NTR NATE Registry of Toxic Effects of Chemical Substances BCF Bioconcentration Factor TL _m Median threshold limit Iog K _{OW} or log K _{OC} Coefficient of Oil/Water Distribution Regult Tork Information System DOT U.S. Environmental Protection Agency <tr< th=""><th></th><th></th><th></th><th></th><th></th><th colspan="6">PRECAUTIONS</th></tr<>						PRECAUTIONS							
LD30 Lethal Dose (solids & liquids) which kills 50% of the exposed animals s LC30 Lethal concentration (gases) which kills 50% of the exposed animal Concentration expressed in parts of material per million parts TD10 Lowest dose to cause a symptom TC10 Lowest dose to cause a symptom TD10 Lowest dose (or concentration) to cause lethal or toxic effects TC, TC5, L06, & LC2 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 Kow or log Koc Coefficient of Oil/Water Distribution REGULATORY INFORMATION: Median threshold limit 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 ND4SL Canadian Non-Domestic Substance List PSL Canadian Priority Substances List TSCA U.S. Toxic Substance Control Act EU European Union (European Union Direc													
s Lethal concentration (gases) which kills 50% of the exposed animal ppm Concentration expressed in parts of material per million parts TD _{lo} Lowest dose to cause a symptom TCLo Lowest dose (or concentration) to cause lethal or toxic effects TC, Co., LCo, & LCo 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 OilWater Distribution REGULATORY INFORMATION: Regulation WHMIS Canadian Workplace Hazardous Material Information System DOT U.S. Department of Transportation TC Transport Canada EPA U.S. Environmental Protection Agency DSL Canadian Dorebatic Substance List NOHSC National Occupational Health and Safety Commission (Australia) NDSL Canadian Priority Substances List TSCA U.S. Toxic Substance Cortol Act EU European Union (European Union Directive 67/548/EEC) WGKW Wassergefährdungsklassen (German Water Hazard Class)	TOXICOL	OGICAL IN											
pm Concentration expressed in parts of material per million parts TD _{Ib} Lowest dose to cause a symptom TCLO Lowest dose to cause a symptom TD _{Ib} , LD _o , & LD _o or Lowest dose (or concentration) to cause lethal or toxic effects TC, TC _o , LC _{ib} , & 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 Iog Koc Cefficient of Oil/Water Distribution RECST Registry of Toxic Effects of Chemical Substances BEF Bioconcentration Factor TL _m Median threshold limit Iog Koc Cendicient Agency USL Canadian Workplace Hazardous Material Information System DOT U.S. Environmental Protection Agency DSE Cana		LD	50 Lethal I s	s									
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