

Page 1 of 7 MSDS-E-6404345 [C] RadioShack®#6404345

Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58/EC & 1272/2008/EC Standards MSDS Revision: 2.0

.

		1. PRODUC	CT IDENI	IFICATION			
Product Name: PRECISION	CLEANER, RAD	DIOSHACK® (P/	N #6404	1345 [C]), 5.5	5 oz/156g]	
2 Chemical Name: See inaredients I	listed in section 3	•					
3 Synonyms: NA							
4 Trade Names: Precision Cleane	er # 6404345 [C]						
5 Product Use: Cleaner Compo							
6 Manufacturer's Name CAIG Laboratori	es, Inc.						
	SSS: Court, Poway, CA 920)64-6876 USA					
÷ .	: +1 (703) 527-	3887 / +1 (800)	424-38	87			
 Business Phone: +1 (800)-224-412 	23						
		2. IDENTIFI	CATION	I OF RISKS			
containers close depression. <u>Hazard Statemen</u> <u>Precautionary St</u> Do not spray on after use. P280 - and water. P31 irritation or rash Aid). P305+P351 present and eas exceeding 50 °C	ed when not in us <u>nts</u> (H): H223 – Flamn <u>atements</u> (P): P210 – an open flame or oth - Wear protective glo 2 – Call a Poison Co occurs, get medical HP338 – IF IN EYES - sy to do – continue ri	r from heat, sparks, a e. Gross inhalation of nable aerosol. Keep away from het/s her ignition source. P25 wes and eye protectio ontrol Center or docto I advise/attention. P3 Rinse continuously wit insing. P410 + P412 – I spose of contents/con	over expo parks/ope 51 – Pressuu n. P302 + F or/physicia 21 – Refer th water for Protect fror	sure may cause n flames/hot surfac ized container: do 352 – IF ON SKIN – n if you feel unwo to section 4 of thi several minutes. n sunlight. Do no	central ner ces – No Smo o not pierce o Wash with p ell. P333 + F is Safety Date Remove con t expose to t	vous system oking. P211 – or burn, even lenty of soap P313 – If skin a Sheet (First tact lenses if remperatures	
2 Routes of Entry:		Inhalation:	YES	Absorption:	YES	Ingestion:	NO
3 Effects of Exposure: EYES: SKIN: INGESTION: INHALATION:	"Frostbite-like" effe Not considered to Gross overexposu heartbeat accom	ects may occur if the livects a potential route of ure may cause centrol panied by a strange g, loss of consciousness	quid or esc quid or esc f exposure al nervous feeling in	aping vapors cont aping vapors cont system depression the chest, "heart	act the eyes act the skin. on, dizziness,	. Mists may cause Mists may cause , confusion, drow	e irritation. irritation. vsiness, irregul
4 Symptoms of Exposure			s, and deal				
EYES:		otoms are reported by					
SKIN: INGESTION:		otoms are reported by be a potential route o					
INHALATION:		on, drowsiness, irregu	-		d by a strar	nge feeling in th	e chest. "he
		hension, light-headedr					
5 Acute Health Effects:	"Exectle 11 - " - "					Miele	inulter to a
EYES: SKIN:		ects may occur if the li ects may occur if the li		-			
INGESTION:		be a potential route of	-			mass may cause	
INHALATION:	Gross overexposu heartbeat accom	panied by a strange Joss of consciousness	al nervous feeling in	system depression the chest, "heart			
Chronic Health Effects		ny chronic health effec	~ts				
7 Target Organs:	by the manufacturer.		y 13.				
3 Toxicological Propertie							
None reported b	y the manufacturer.						
A = Not Available; ND = Not DTE: all WHMIS required info		lished; C = Ceiling Limit; See S					



Page 2 of 7 MSDS-E-6404345 [C] RadioShack® #6404345

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sion: 2.0 MSDS

									E	XPOSL	RE LIM	ITS IN A	AIR		
							AC	GIH		NOHSC	1		OSHA		
							ppm (n		рр	m (mg/ı	n³)	рр	om (mg/r		ОТН
	CHEMICAL NAME	(5)	CAS No.	RTECS No.	EINECS No.	%	TLV	STEL	ES- TWA	ES- STEL	ES- PEAK	PEL	STEL	IDLH	
он	EXANE		107-83-5	SA2995000	203-523-4	60-100	1800	NA	1760	3500	NF	1800	3600		
,1-D	IFLUOROETHANE (F	R-152a)	75-37-6	KI1410000	200-866-1	10-30	1000	NA	1000	NA	NA	NE	NA	NA	
THA	NOL		64-17-5	KQ6300000	200-578-6	1-5	1000	NA	1880	NF	NF	1000	NA	NA	
					4. FIRST	AID									
.1	First Aid:														
	EYES:			y with copiou			for at	least 2	20 min	utes, I	holding	, eyeli	ids op	en to	ensu
	SKIN:	-	-	ek immediate d clothina ar			as with	soap	and w	ater.	lf irrita	tion p	ersists.	seek	prom
	medical attention. Launder clothing before reuse.														
	INGESTION: Do not induce vomiting. Call a physician or poison control center for assistance and instructions. Seek immediate														
	medical attention. If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the aspiration.							e risk							
	INHALATION:	Remove	victim to fres	h air at once.	•				•				•		
		provide warm an	-	piration. Seek	immediate i	medical	attenti	on. P	rovide	suppo	ortive t	reatm	ent, ke	eping	vict
.2	Medical Conditions Ag								HEA	тн					1
	None reported b	y the manu	ufacturer.								DILIT	v			
											BILIT				4
									PHYS	SICA	L HA	ZAR	DS		0
									PRO	TECT	IVE E	QUI	PME	NT	В
									EYES	S	KIN	LL	INGS		
. 1	Flashpoint & Method:			5. FIRE	& EXPLOS	ION H	AZA	RDS							
5.1	15 °F (lowest con	nponent) T(сс												
5.2	Autoignition Temperat	ure:													
).Z	ND			1.2%	Upper Fy	olosive Limit	(1)=1.).	1 707	,						
	Elammability Limits:	Lauran Eu			Upper Exp	Diosive Limit	(UEL):	6.7%)						
.3	Flammability Limits: Fire & Explosion Hazard		plosive Limit (LEL)	. 1.270			(*)*								
5.3	Flammability Limits: Fire & Explosion Hazard Warning! Conte	ds:						. Cylir	nders n	nay ru	pture u	nder			
5.3	Fire & Explosion Hazard Warning! Conte fire conditions. T	^{ds:} nts under p his materia	oressure! NFP al will become	A Level 3 Aer e combustible	osol. Highly flo when mixed	ammable with air u	e liquid under p	pressur	e and o	expos	ed to s	frong			
5.3	Fire & Explosion Hazard Warning! Conte fire conditions. T ignition sources	his under p his materia Decom	ressure! NFP I will become position ma	A Level 3 Aer e combustible y occur. C	osol. Highly flo when mixed ontact of we	ammable with air u elding o	e liquid under p r solde	oressur ering f	e and o forch	expos flames	ed to si with	trong high			
5.3	Fire & Explosion Hazard Warning! Conte fire conditions. T	his under p his materia Decom f refrigera	pressure! NFP Il will become position ma nt can result	A Level 3 Aer e combustible y occur. C in visible cho	osol. Highly fle when mixed ontact of we anges in the s	ammable with air u elding o size and	e liquid under p r solde color (oressur ering t of the	e and d forch f forch f	expos flames flame.	ed to si with The f	trong high lame		4	
5.3	Fire & Explosion Hazard Warning! Contex fire conditions. T ignition sources concentrations of effect will only of work and ventilo	ts: his under p his materia . Decom of refrigera ccur in con te the are	oressure! NFP al will become position ma nt can result acentrations c a before pro	A Level 3 Aer e combustible y occur. C in visible cho of product wel oceeding. Use	osol. Highly flo when mixed ontact of we anges in the s I above the re	ammable with air u elding o size and ecomme	e liquid under p r solde color o nded e	oressur ering of the xposu	e and o forch f forch f re limit	expos flames flame. , there	ed to s with The f fore sto	trong high lame op all		4	1
5.3	Fire & Explosion Hazard Warning! Contel fire conditions. T ignition sources concentrations of effect will only of work and ventild work area before	ts: his under p his materia Decom of refrigera ccur in con te the are using any	oressure! NFP al will become position ma nt can result acentrations c a before pro	A Level 3 Aer e combustible y occur. C in visible cho of product wel oceeding. Use	osol. Highly flo when mixed ontact of we anges in the s I above the re	ammable with air u elding o size and ecomme	e liquid under p r solde color o nded e	oressur ering of the xposu	e and o forch f forch f re limit	expos flames flame. , there	ed to s with The f fore sto	trong high lame op all		14	1
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5.3 5.4 5.5 5.6	Fire & Explosion Hazard Warning! Conter fire conditions. T ignition sources concentrations of effect will only of work and ventild work and ventild work area before Extinguishing Methods Use media approd Firefighting Procedure Keep containers drains, drinking breathing appar	is: his materia . Decom of refrigeran ccur in con the the are <u>e using any</u> ppriate for s cool until v water sup atus (MSHA	oressure! NFP al will become position maint can result acentrations of a before pro- copen flames surrounding n well after the oply, or any A/NIOSH appr or minimize a ed individual	A Level 3 Aer e combustible y occur. C in visible cho of product wel oceeding. Use ceeding. Use <u>s</u> . <u>naterials.</u> fire is out. Pre natural wate oved or the e b fill sources of i s. Individuals	osol. Highly fla when mixed ontact of we inges in the forced vent vent runoff fro rway. Firefi quivalent) and b. SPILLS & gnition, and r involved in th	ammable with air u elding o size and ecomme ilation to om fire co ghters st d imperv c LEAK	e liquid under p r sold color o nded e disper	or diluti wear f of the pr diluti ation.	e and o forch f torch f re limit, igeran on fron full-fac	exposi flames ilame, , there t vapo n ente e, sel pill or	ed to si with The f fore sto ors from ring se f-conto	trong high lame op all n the wers, sined t sourc nal pro	otectiv	e equ	ipme



Page 3 of 7 MSDS-E-6404345 [C] RadioShack® #6404345

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		7. STORAGE & HANDLING						
7.1	Work & Hygiene Practices: Use normal hygiene practices or smoking.	. Avoid direct skin contact. Wash hands thoroughly after using this product and before eating, drinking,						
7.2	ignition. Do not store near or v Protect cylinders from physica	rell-ventilated area. Keep away from excessive heat, open flames, sparks, and other possible sources of with any incompatible materials listed in section 10. Do not store in unmarked or open containers. Il damage. Do not store in subsurface areas.						
7.3	Special Precautions:	fire, first aid, and spill response equipment and/or measures are highly recommended.						
	Readily available emergency	nie, nisi dia, ana spin response equipment ana/or measures are nignly recommended.						
		3. EXPOSURE CONTROL & PERSONAL PROTECTION						
8.1	are released. Mechanical ve	rd manufacturing procedures is generally adequate. Local exhaust should be used when large amounts entilation should be used in low or enclosed places. Refrigerant concentration monitors may be or concentrations in work areas prior to use of torches or other open flames, or if employees are entering						
8.2	Respiratory Protection: A respiratory protection prog respirators use.	ram that meets ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a						
8.3	Eye Protection: Safety glasses with side shield recommended.	ds should be used with this product. If splashing is anticipated, splash goggles and a faceshield are						
8.4	against the skin.	rvious gloves are recommended. Do not wear rings, watches, or jewelry that could entrap the material						
8.5	Body Protection:	conditions						
	None required under normal	conditions.						
		9. PHYSICAL & CHEMICAL PROPERTIES						
9.1	Density:	3.5						
9.2	Boiling Point:	195 °F						
9.3	Melting Point:	ND						
9.4	Evaporation Rate:	> 1.0 (liquid)						
9.5	Vapor Pressure @ 20°C:	2.3 psia @ 100 °F (liquid)						
9.6	Molecular Weight:	NA						
9.7	Appearance & Color:	Colorless to pale yellow liquid						
9.8	OdoR Threshold:	Mild						
9.9	Solubility:	Negligible						
9.10	pH:	ND						
9.11	Viscosity:	0.83 cSt @ 100 °F (liquid)						
9.12	Coefficient Oil/Water Distribution:	NA						
9.13	Additional Information:	Bulk density at 20 °C 5.8 lb/gal (liquid); VOC Content: > 94%						
		10. STABILITY & REACTIVITY						
10.1	Stability: Stable under normal condition							
10.2	•	nposition products are hazardous. Thermal decomposition can yield hydrofluoric acid and possibly terials are toxic and irritating. Contact should be avoided.						
10.5	Will not occur.							
10.4		eat, and close proximity to incompatible substances. Storage in poorly ventilated areas.						
10.5	Incompatible Substances: Strong oxidizing agents, mag	nesium, aluminum, (and their alloys), brass and steel.						
	Strong oxidizing agents, magnesium, aluminum, (and their alloys), brass and steel.							



Page 4 of 7 MSDS-E-6404345 [C] RadioShack® #6404345

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		11. TOXICOLOGICAL INFORMATION						
11.1		s not been tested on animals to obtain toxicological data. There are toxicology data for the components of th are found in the scientific literature. Animal studies have shown that this material is a slight irritant, but not a sensitizer						
1.2	See Section 2.5							
1.3	Chronic Toxicity:							
	See Section 2.6							
1.4	Suspected Carcinoge							
1.5	Reproductive Toxicity	ot a suspected carcinogen in humans.						
1.0	Mutagenicity:							
	Embryotoxicity:	This product is not expected to cause reproductive harm in humans. This product is not expected to cause reproductive harm in humans.						
	Teratogenicity:	This material is not expected to cause teratogenic effects in humans.						
	Reproductive Toxicity							
1.6	Irritancy of Product:							
	Slight							
1.7	Biological Exposure In	dices:						
1.8	NA Medical Recommence							
1.0	Treat symptoma	tically. Because of possible disturbances of cardiac rhythm, catecholamine drugs, such as epinephrine, should on acial caution in situations of emergency life support.						
		12. ECOLOGICAL INFORMATION						
2.1		y: rer has not reported detailed studies on the environmental fate of the material. However, prudent practice woul erial not be allowed to enter the environment.						
2.2		er has not reported any plant or animal effects.						
2.3	Effect on Aquatic Life							
	The manufacture	er has not reported any aquatic life effects.						
		13. DISPOSAL CONSIDERATIONS						
3.1	Waste Disposal:	13. DISPOSAL CONSIDERATIONS						
	Dispose of in ac	cordance with local & provincial hazardous waste laws.						
3.2	Special Consideration If the material is prohibited by lo	unsuitable for recycling or reclamation, enclosed-controlled incineration is recommended unless otherwise						
		14. TRANSPORTATION INFORMATION						
		D Number, proper shipping name, hazard class & division, packing group) is shown for each mode of transportation nformation may be required by 49 CFR, IATA/ICAO, IMDG and the CTDGR.						
4.1	49 CFR (GND):							
		MMODITY, ORM-D* - available until 01/01/2014						
10	IATA (AIR):	OLS, 2.1, LTD QTY (≤ 1.0 L)						
4.2		MER COMMODITY, 9 (≤ 0.5 L)						
		DLS, 2.1, LTD QTY (≤ 1.0 L)						
4.3	IMDG (OCN):							
-		OLS, 2.1, LTD QTY						
4.4	TDGR (Canadian GN							
	MARK PACKAGI	E "LIMITED QUANTITY" or "QUANTITÉ LIMITÉE" or "LTD QTY" or "QUANT LTÉE"						
	UN1950, AEROS	OLS, 2.1, LTD QTY (≤ 1.0 L)						
	ADR/RID (EU): UN1950, AEROSO	DLS, 2.1, LTD QTY (≤ 1.0 L)						
4.5								
4.5 4.6	SCT (MEXICO): UN1950, AEROSO	DLES, 2.1, CANTIDAD LIMITADA (≤ 1.0 L)						



Page 5 of 7 **MSDS-E-6404345 [C] RadioShack® #6404345** MSDS Revision Date: 08/30/2012

Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58/EC & 1272/2008/EC Standards MSDS Revision: 2.0

15. REGULATORY INFORMATION

15.1	
10.1	SARA Reporting Requirements: This product does not contain any substances that are subject to SARA Section 313 reporting requirements.
15.2	SARA Threshold Planning Quantity: NA
15.3	TSCA Inventory Status: All chemical substances of this product are listed on the TSCA inventory or are otherwise exempt from inventory status.
5.4	CERCLA Reportable Quantity (RQ): NA
5.5	Other Federal Requirements: NA
15.6	Other Canadian Regulations: This product has been classified according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR. The components of this product are listed on the DSL/NDSL. None of the components of this product are listed on the priorities substances list.
15.7	State Regulatory Information: <u>Isohexane</u> can be found on the following state right to know lists: Pennsylvania, Minnesota, and Massachusetts. <u>Difluoroethane</u> c be found on the following state criteria lists: Massachusetts Hazardous Substances List, New Jersey Right-to-Know List, a
	Pennsylvania Hazardous Substances List. <u>Difluoroethane</u> is not listed on the California Proposition 65 list. <u>Ethanol</u> can be found on t following state right to know lists: California, New Jersey, Florida, Pennsylvania, Minnesota, and Massachusetts. California Prop 65 <u>Ethanol</u> (as an alcoholic beverage) is listed on the California Proposition 65 list. None of the other chemicals in this product are list on this state criteria list.



Page 6 of 7 MSDS-E-6404345 [C] RadioShack® #6404345

Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58/EC & 1272/2008/EC Standards MSDS Revision: 2.0

16.	OTHER INFORMATION
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		16. OTHER INFORMATION
16.1	Other Information: NA	
16.2	Terms & Definitions: Please see last page of this Material Safety	7 Data Sheet.
16.3	government regulations must be reviewed knowledge, the information contained her are not guaranteed and no warranties of relates only to the specific product(s).	ed pursuant to OSHA's Hazard Communication Standard, 29 CFR §1910.1200. Other d for applicability to this product. To the best of ShipMate's & CAIG Laboratories, Inc.'s rein is reliable and accurate as of this date; however, accuracy, suitability or completeness i any type, either expressed or implied, are provided. The information contained herein If this product(s) is combined with other materials, all component properties must be ime to time. Be sure to consult the latest edition.
16.4	Prepared for: CAIG Laboratories, Inc. 12200 Thatcher Court Poway, CA 92064-6876 Tel: +1 (800) CAIG-123 (244-4123) Fax: +1 (858) 486-8398 fax http://www.caig.com/	EXAMPLE EXAMPLE
16.5	Prepared by: ShipMate, Inc. P.O. Box 787 780 Buckaroo Trail Suite D Sisters, OR 97759 Tel: +1 (310) 370-3600 Fax: +1 (310) 370-5700 http://www.shipmate.com	ShipMate Dangerous Goods Training & Consulting



Page 7 of 7 MSDS-E-6404345 [C] RadioShack® #6404345

MSDS Revision Date: 08/30/2012

DEFINITION OF TERMS

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

GENERAL INFORMATION:

EXPOSURE LIMITS IN AIR: ACGIH

HAZARD RATINGS:

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MSDS Revision: 2.0

	0	Minimal Hazard
	1	Slight Hazard
	2	Moderate Hazard
7	3	Severe Hazard
-	4	Extreme Hazard
-	ACD	Acidic
-	ALK	Alkaline
-	COR	Corrosive
	¥	Use No Water



TOXICOLOGICAL INFORMATION:

Oxidize TREFOIL Radioactive

LD ₅₀	Lethal Dose (solids & liquids) which kills 50% of the exposed animals s
LC ₅₀	Lethal concentration (gases) which kills 50% of the exposed animal
ppm	Concentration expressed in parts of material per million parts
TD _{lo}	Lowest dose to cause a symptom
TCLo	Lowest concentration to cause a symptom
TD _{Io} , LD _{Io} , & LD _o or	Lowest dose (or concentration) to cause lethal or toxic
TC, TC _o , LC _{io} , & LC _o	effects
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 Kow or log Koc	Coefficient of Oil/Water Distribution

REGULATORY INFORMATION:

WHMIS	Canadian Workplace Hazardous Material Information System				
DOT	U.S. Department of Transportation				
TC	TC Transport Canada				
EPA	EPA U.S. Environmental Protection Agency				
DSL	DSL Canadian Domestic Substance List				
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)				

N:

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Α	В	С	D1	D2	D3	E	F
Compressed	Flammable	Oxidizing	Toxic	Irritation	Infectious	Corrosive	Reactive

(67/548/EEC) INFORMATION:

		*	¥	*	*	×	×
С	E	F	N	0	T+	Xi	Xn
Corrosive	Explosive	Flammable	Harmful	Oxidizing	Toxic	Irritant	Harmful

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

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

FIRST AID MEASURES:

TLV Threshold Limit Value

PEL Permissible Exposure Limit

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.					

American Conference on Governmental Industrial Hygienists

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

IDLH Immediately Dangerous to Life and Health

OSHA U.S. Occupational Safety and Health Administration

HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

CAS No. Chemical Abstract Service Number

0	Minimal Hazard	HEALTH
1	Slight Hazard	FLAMMABILITY
2	Moderate Hazard	PHYSICAL HAZARDS
3	Severe Hazard	PERSONAL PROTECTION
4	Extreme Hazard	

PERSONAL PROTECTION RATINGS:

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OTHER STANDARD ABBREVIATIONS:

Not Available
No Results
Not Established
Not Determined
Maximum Limit
Self-Contained Breathing Apparatus

volume spills or releases of product.

NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

FLAMMABILIT	FLAMMABILITY LIMITS IN AIR:					
Autoignition	Minimum temperature required to initiate combustion in air with no					
Temperature	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					

LOV	
effe	TC, TC _o , LC _{lo} , & LC _o
Inte	IARC
Na	NTP
Reg	RTECS

		animai
	ppm	Concentration e
	TD _{Io}	Lowest dose to a
	TCLo	Lowest concent
	TD _{Io} , LD _{Io} , & LD _o or	Lowest dose (c
ON	TC, TC _o , LC _{lo} , & LC _o	effects
••••	IARC	International Ag
	NTP	National Toxicol
	DIECE	Degistry of Toylo

log Kow or log Koc

RECOLATOR	
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
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)

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