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SAFETY DATA SHEET

Page 1 of 6 **SDS-E-S5S-A**

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

SDS Revision: 4.0

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		1	PRODUC											
1.1	Product Name:	DEOXIT	Shield S-S	SERIES, 5	% SPR	RAY, ((P/N	S5S-	·6), 1	42 g	Iram	s, VO	DC C	Compliant
1.2	Chemical Name:	NA					-		-					
1.3	Synonyms:	DeoxIT® Sh	ield S-Series, 5%	6 Spray; PN S	5S-6									
1.4	Trade Names:		eoxIT® Shield S-Series, 5% Spray; PN S5S-6											
1.5	Product Uses & Restrictions:	Lubricant an	ubricant and Protectant for electronic contacts & connectors											
1.6	Distributor's Name:	CAIG Labora												
1.7	Distributor's Address:	12200 Thatc	her Court, Powa	y, CA 92064-6	876 USA									
1.8	Emergency Phone:	CHEMTR	EC: +1 (703)	527-3887 /	+1 (800)) 424	-930	0 (CC	N XX	XXX)			
1.9	Business Phone / Fax:	+1 (800) 224	-4123											
			2 11				٨ΤΙ							
2.1	Hazard Identification:	This produc									פוור		\$	
 Hazard Identification: This product is classified as a HAZARDOUS SUBSTANCE and as DANGEROUS GOODS according to the classification criteria of NOHSC: 1088 (2004) and ADG Code (Australia). DANGER! PRESSURIZED CONATINER; MAY BURST IF HEATED. MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS. <u>Classification</u>: Aerosols 1 <u>Hazard Statements</u> (H): H229 – Pressurized container; may burst if heated. H304 – May be fatal if swallowed and enters airways. <u>Precautionary Statements</u> (P): P210 – Keep away from heat, hot surface, sparks, open flames and other ignition sources. No smoking. P251 – Do not pierce or burn, even after useP301+P310 – IF SWALLOWED: Immediately call a POISON CENTER/doctor. P332+P313 – If skin irritation occurs: get medical advice/attention. P405 – Store locked up P410+P412 – Protect from sunlight. Do not expose to temperatures exceeding 50 °C / 122 °F. P501 – Dispose of contents/container to a licensed treatment, storage or disposal facility (TSDF). 				if Id IF on m										
		3. C	OMPOSITI	ON & INC	GREDI	ENT	INF	ORM	ΙΑΤΙ	ON				
									EXPOS		MITS IN	I AIR (m	g/m³)	1
						AC			NOHSC			OSHA		
						рр	m	50	ppm ES-	ES-		ppm		-
CHEMI	CAL NAME(S)	CAS No.	RTECS No.	EINECS No.	%	TLV	STEL	ES- TWA		PEAK	PEL	STEL	IDLH	OTHER
DETD	OLEUM NAPTHA	64742-88-7	XS5250000	265-191-7	40-70	100	NA	100	NF	NF	NA	NA	NA	
FEIR	JLEUWINAFINA	Asp. Tox. 1;		-				-						
DIFLU	ORETHANE (R-152A)	75-37-6	K14100000	200-866-1	10-30	1000	NA	1000	NF	NF	NA	NA	NA	SKIN
	. ,		Liq. Gas;H220, H2 RY – TRADE SEC		3-7	NA	NA	NF		NF	NA	NA	NIA	
DEOX	T® Shield S-SERIES, S100		RT - TRADE SEC	REI	3-7	ΝA	INA	INF		INF	INA	INA	INA	
			4.	FIRST AI	D ME	ASUE	RES							
4.1	First Aid: Effects of Exposure:	4. FIRST AID MEASURES Ingestion: If ingested, do not induce vomiting. If product has been swallowed, drink plenty of water or milk IMMEDIATELY. If the patient is vomiting, continue to offer water or milk. Never give water or milk to ar unconscious person. Contact the nearest Poison Control Center or local emergency number. Provide ar estimate of the time at which the material was ingested and the amount of the substance that was swallowed. Eyes: Splashes are not likely; however, if product gets in the eyes, flush with copious amounts of lukewarm water for at least 15 minutes lifting upper and lower lids, occasionally. If irritation persist repeat flushing Get medical attention. Skin: Wash thoroughly with soap and water. In case of contact, immediately flush skin with plenty of water for a least 15 minutes. Treat for frostbite if necessary, be gently warming affected area. If irritation, redness o swelling persists, contact a physician immediately. Inhalation: Remove victim to fresh air at once. If breathing difficult, administer oxygen. If breathing stops give artificial respiration. Keep person warm, quiet and get medical attention. Ingestion: If product is swallowed, may cause nausea, vomiting and/or diarrhea. Eyes: Moderately irritating to the eyes. Symptoms of overexposure may include redness, itching, irritation and												
4.3	Symptoms of Overexposure:	Skin: May be irritating to skin. The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) in some sensitive individuals. Inhalation: None expected. Ingestion: Nausea, intestinal discomfort, vomiting and/or diarrhea. Eves: Overexposure in eyes may cause redness, itching and watering. Skin: Symptoms of skin overexposure may include redness, itching, and irritation of affected areas. Frostbite like symptoms. The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) in some												
4.4	Acute Health Effects:		individuals. itation to eyes dizziness, heada							gh co	oncent	rations	of va	apors can ca



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		4. FIRS										
4.5	Chronic Health Effects:	Overexposure may trigger as respiratory hypersensitivity.					itive individ	uals. M	ay also	induce	skin sensiti	zation a
4.6	Target Organs:	Eyes, Skin, Respiratory Syste	em.									
1.7	Medical Conditions	Pre-existing dermatitis, other				isorders o	f the HE	ALTH				1
	Aggravated by Exposure:	target organs (eyes, skin, and	l respira	tory sys	stem).		FL/		BILITY			2
							PH	YSICA	HA7			0
										-	ENIT	
							PR	OTECT	IVE EC		ENI	В
							EYE	S	SKIN			
		5. FIF	REFIC	GHTI	NG ME	ASUR	ES					
5.1	Fire & Explosion Hazards:	Level 3 Aerosol (NFPA 30B).	Aeros	ols mav	burst at t	emperatur	es above 1	20 °F. (Cool un	involved	d	
		containers to prevent possib										
		aerosols are bursting, stay										
		However, if involved in a fire,										
		(e.g., CO, Hydrogen Fluoride)			.,	sees aring				guoot	<u> </u>	
2	Extinguishing Methods:	Water, Foam, CO ₂ , Dry Chem		se wate	r sprav to	cool unon	ened conta	iners				
3	Firefighting Procedures:	Fight fires as for surrounding							d colf o	ontoinor		
-		breathing apparatus (pressur										
		after the fire is out. Use wat										\sim
		fire upwind. Avoid spraying										/
		Prevent runoff from fire conti										/
		any natural waterway. Firefi										
		pressure self-contained breat										
		decomposition products and o				n agamor j		2010000	0011100		•	
	1											
		6. ACCIDE	ENTA	LRE	LEAS	E MEA	SURES	5				
4	Spills:	Before cleaning any spill or	r look				I also a second				-	Drotoot
-1		Before cleaning any spill or leak, individuals involved in spill cleanup must wear appropriate Personal Protective										
.1												
.1		Equipment. Plastic or rubbe	r gloves	s, respir	ator, eye p	protection a	and apron r	nay be r	equired	for clea	an-up of larg	e spills
.1		Equipment. Plastic or rubbe Small Spills: Wear appropria	r gloves te prote	s, respir ective e	ator, eye p quipment i	protection a including g	and apron r gloves and	nay be r protectiv	equired	l for clea vear. U	an-up of larg Ise a non-co	e spills. mbusti
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.1		Equipment. Plastic or rubbe <u>Small Spills</u> : Wear appropria material such as vermiculite water or a material such as plastic brooms, shovels, dust <u>Large Spills</u> : Keep incompat	r gloves te prote or sand "speedy pans) a ible ma	s, respir ective e d to soa / dry" to nd plac terials (ator, eye p quipment ak up the p o soak up e into a pla e.g., organ	protection a including g product an material. astic conta nics such a	and apron r gloves and id place int Sweep up iner or plas as oil) away	nay be r protectiv o a con materia tic liner / from s	equired ve eyew tainer fo al using within a pill. Sta	I for clea vear. U or later non-spa another ay upwir	an-up of larg lse a non-co disposal. D arking mate container. nd and away	e spills mbusti o not u rials (e
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·.1	Work & Hygiene Practices: Storage & Handling:	Equipment. Plastic or rubbe <u>Small Spills</u> : Wear appropria material such as vermiculite water or a material such as plastic brooms, shovels, dust <u>Large Spills</u> : Keep incompat or release. Isolate immediate done with minimal risk. Wear 7. HANDLIN Do not eat, drink or smoke container(s). When used as contact is possible. Wash uni Use and store in a cool, dry	r gloves te prote or sanc "speedy pans) a ible ma e hazaro r approp IG & when h intende intention r, well-v	s, respir ective ed to soa / dry" to nd plac terials (d area a priate pr STO nandling ed, no a nal resid entilate	ator, eye p quipment i ak up the p o soak up e into a pla e.g., organ ind keep u otective e RAGE this proo additional dues with s d location	protection a including <u>c</u> product an material. astic conta nics such a inauthorize quipment i INFOF duct. Cor protective soap and v (e.g., loca	and apron r gloves and id place int Sweep up iner or plas as oil) away ed personne ncluding re RMATIC itents unde equipment warm water al exhaust	nay be r protectiv o a con materia tic liner / from s el out of spirator DN r press is nece	equired ve eyew tainer fo I using within a pill. Sta area. S y protec ure. H sssary. on, fan:	I for clea vear. U or later non-sp nother ay upwir Stop spil tion as andle a Use ch s) away	an-up of larg lse a non-co disposal. D arking mate container. nd and away II or release conditions w as to avoid nemical gogg	e spills. mbustil o not u rials (e. from s if it can arrant. punctur gles if e and dir
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to overexposed aquatic life.

SDS Revision: 4.0

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8. EXPOSURE CONTROLS & PERSONAL PROTECTION					
8.5	Hand Protection:	None required under normal conditions of use. However, may cause skin irritation in some sensitive individuals. When handling large quantities (e.g., ≥ 1 gallon (3.8 L)), wear rubber, nitrile or impervious plastic gloves.			
8.6	Body Protection:	No apron required when handling small quantities. When handling large quantities (e.g., \geq 5 lbs), eye wash stations and deluge showers should be available. Upon completion of work activities involving large quantities of this product, wash any exposed areas thoroughly with soap and water.			

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		9. PHYSICAL & CHEMICAL PROPERTIES
9.1	Appearance:	Light blue (aerosol)
9.2	Odor:	Ethereal hydrocarbon odor
9.3	Odor Threshold:	NA
9.4	pH:	NA
9.5	Melting Point/Freezing Point:	NA
9.6	Initial Boiling Point/Boiling Range:	171.1-204 °C @ 760 mm Hg
9.7	Flashpoint:	48.8 – 54.4°C (120 - 130 °F)
9.8	Upper/Lower Flammability Limits:	NA
9.9	Vapor Pressure:	NA
9.10	Vapor Density:	4.9 (air = 1.0)
9.11	Relative Density:	0.75
9.12	Solubility:	Not soluble in water
9.13	Partition Coefficient (log Pow):	NA
9.14	Autoignition Temperature:	NA
9.15	Decomposition Temperature:	NA
9.16	Viscosity:	10.0 cPs
9.17	Other Information:	VOC 588 g/L
		10. STABILITY & REACTIVITY
10.1	Stability:	Stable under normal conditions; unstable with heat or contamination.
10.2	Hazardous Decomposition Products:	Change in color signifies exposure to ultraviolet light or exceeding shelf life. Will not degrade to unstable products. Discard solution.
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 been tested on animals to obtain toxicology data. Toxicology data, found in scientific literature, is available for some of the components of the product.
11.3	Acute Toxicity:	Moderate irritation to eyes and skin near affected areas. Additionally, high concentrations of vapors can cause drowsiness, dizziness, headaches and nausea.
11.4	Chronic Toxicity:	This material may aggravate any pre-existing skin condition (e.g., dermatitis).
11.5	Suspected Carcinogen:	No.
11.6	Reproductive Toxicity:	This product is not reported to produce reproductive toxicity in humans.
	Mutagenicity:	This product is not reported to produce netroductive toxicity in numaris.
	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.
	,	Troat symptomation,
		12. ECOLOGICAL INFORMATION
12.1	Environmental Stability:	There is 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; however, very large releases of this product may be harmful or fatal to overexposed aquatic life.



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		13. DISPOSAL CONSIDERATIONS
13.1	Waste Disposal:	Products covered by this MSDS, in their original form, when disposed as waste, are considered non hazardous waste according to Federal RCRA regulations (40 CFR 261). Disposal should be in accordance with local, state and federal regulations. Dispose of in accordance with federal, state and local regulations.
13.2	Special Considerations:	California Waste Code: 331
		14. TRANSPORTATION INFORMATION
		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):	UN1950, AEROSOLS, 2.1 (LTD QTY, IP VOL \leq 1.0 L); or CONSUMER COMMODITY, ORM-D (IP VOL \leq 1.0 L) – until 12/31/2020
14.2	IATA (AIR):	UN1950, AEROSOLS, FLAMMABLE, 2.1 (LTD QTY, IP VOL \leq 0.5 L); or ID8000, CONSUMER COMMODITY, ORM-D (IP VOL \leq 0.5 L)
14.3	IMDG (OCN):	
14.4	TDGR (Canadian GND):	UN1950, AEROSOLS, 2.1 (LTD QT1, IP VOLS 1.0 L) UN1950, AEROSOLS, 2.1 (LTD QTY, IP VOL ≤ 1.0 L); or MARK PACKAGE "LIMITED QUANTITY," "LTD QTY," or "QUANT LTÉE" or "QUANTITÉ LIMITÉE"
14.5	ADR/RID (EU):	UN1950, AEROSOLS, 2.1 (LTD QTY, IP VOL ≤ 1.0 L)
14.6	SCT (MEXICO):	UN1950, AEROSOLES, 2.1 (CANTIDAD LIMITADA, IP VOL ≤ 1.0 L)
14.7	ADGR (AUS):	UN1950, AEROSOLS, 2.1 (LTD QTY, IP VOL ≤ 1.0 L)
		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.
15.4	CERCLA Reportable Quantity (RQ):	NA
15.5	Other Federal Requirements:	This product complies with the appropriate sections of the Food and Drug Administration's 21 CFR Subchapter G, (Cosmetics).
15.6	Other Canadian Regulations:	This product has been classified according to the hazard criteria of the 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. WHMIS Class B5 (Flammable Aerosol)
15.7	State Regulatory Information:	Difluoroethane can be found on the following state criteria lists: MA and NJ. No ingredients in this product, present in a concentration of 1.0% or greater, are listed on any of the following state criteria lists: California Proposition 65 (CA65), Delaware Air Quality Management List (DE), Florida Toxic Substances List (FL), Massachusetts Hazardous Substances List (MA), Michigan Critical Substances List (MI), Minnesota Hazardous Substances List (MN), New Jersey Right-to-Know List (NJ), New York Hazardous Substances List (NY), Pennsylvania Right-to-Know List (PA), Washington Permissible Exposures List (WA), Wisconsin Hazardous Substances List (WI).
15.8	Other Requirements:	The primary components of this product are listed in Annex I of EU Directive 67/548/EEC: <u>Petroleum Naphtha</u> : Flammable, Harmful (F, Xn). <u>Risk Phrases</u> (R): 10-65 – Flammable. Harmful: may cause lung damage if swallowed. <u>Safety Phrases</u> (S): 2-23-24-62 – Keep away from children. Do not breathe gas, fumes, vapor or spray. Avoid contact with skin. If swallowed, do not induce vomiting: seek medical advice immediately and show this MSDS or the container label. WARNING! Flammable aerosol. Colorless, volatile liquid with ethereal and faint sweetish odor. Overexposure may cause dizziness and loss of concentration. At higher levels, CNS depression and cardiac arrhythmia may result from exposure. Vapors displace air and can cause asphyxiation in confined spaces. MAL-KODE (DK): 1-3



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		16. OTHER INFORMATION
16.1	Other Information:	DANGER! PRESSURIZED CONATINER; MAY BURST IF HEATED. MAY BE FATAL IF SWALLOWED AN ENTERS AIRWAYS. Use only as directed. Keep out of reach of children. Do not breathe fumes/spray. May cause lung damage if swallowed. Avoid contact with skin. In case of accident or if you feel unwell seek medical advice immediately (show the label where possible). If skin irritation occurs: get medical advice/attention. KEEP LOCKED U AND OUT OF REACH OF CHILDREN.
16.2	Terms & Definitions:	See last page of this Safety Data Sheet.
16.3	Disclaimer:	This Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR §1910.1200. Oth government regulations must be reviewed for applicability to this product. To the best of ShipMate's & CAL Laboratories, 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, a provided. The information contained herein relates only to the specific product(s). If this product(s) is combined wire other materials, all component properties must be considered. Data may be changed from time to time. Be sure 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/
16.5	Prepared by:	ShipMate, Inc.P.O. Box 787Sisters, Oregon 97759-0787 USATel: +1 (310) 370-3600Fax: +1 (310) 370-5700http://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

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:

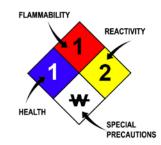
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Sa	ifety Glasse	es Splash Goggles		e Shield & tive Eyewea	ar	Glove	es
	Boots	Synthetic Apron		tive Clothir Full Suit	ng c	Oust Resp	birator
Full I	Face Respir	rator Dust & Vapor Half- Mask Respirator	-	ull Face espirator	Ai	rline Hoo or SCE	
отн	ER STAN	DARD ABBREVIATION	S:				
-	ML	Maximum Limit					
	mg/m3	milligrams per cubic meter					
	NA	Not Available					
	ND	Not Determined					
	NE	Not Established					
	NF	Not Found					
L	NR	No Results					
L	ppm	parts per million					
1	SCBA	Self-Contained Breathing A	pparatus				

NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

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

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 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 _{lo}	Lowest dose to cause a symptom
TCLo	Lowest concentration to cause a symptom
TD _{lo} , LD _{lo} , & LD _o or	Lowest dose (or concentration) to cause lethal or toxic effects
TC, TC _o , LC _{io} , & LC _o	
IARC	International Agency for Research on Cancer
NTP	National Toxicology Program
RTECS	Registry of Toxic Effects of Chemical Substances
BCF	Bioconcentration Factor
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
тс	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:

		2×	¥	8	® X	×	×
С	E	F	z	0	т	Xi	Xn
Corrosive	Explosive	Flammable	Harmful	Oxidizing	Toxic	Irritant	Harmful

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

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