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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision: 4.0 SDS Revision Date: 2/1/2018

1	T =	1	PRODUC											
	Product Name:	DEOXIT	® GOLD G	-SERIES,	100%	SPR	AY,	(P/N	I G1	<u>00S</u>	-2),	57 g	3	
2	Chemical Name:	NA												
3	Synonyms:	NA NA												
ļ	Trade Names:	DeoxIT® Gold G-Series, 100% Spray, (P/N G100S-2), 57g												
5	Product Uses & Restrictions:	Conditioner,	enhancer for pla	ated and gold	olated ele	ctronic c	contac	ts & co	nnecto	rs				
3	Distributor's Name:	CAIG Labora												
7	Distributor's Address:	12200 Thatcher Court, Poway, CA 92064-6876 USA												
8	Emergency Phone:	CHEMTREC: +1 (703) 527-3887 / +1 (800) 424-9300 (CCN205206)												
9	Business Phone / Fax:	+1 (800) 224	4-4123											
			2 H/	AZARDS	DENT	IFIC.	\TIC	N						
2.1 Hazard Identification: This product is classified as a HAZARDOUS SUBSTANCE and as DANGEROUS GOODS according to t							ho classificat							
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			PRESSURIZED	,	•	,	HEA	ΓED. C	AUSES	SEYE	IRRI	TATIO	N.	
			n: Aerosols 3; Ev		,									
.2	Label Elements:	Hazard Stat	ements (H): H22	29 – Pressuriz	ed contai	ner; may	/ burs	t if hea	ed. H	320 –	Cau	ses ey	е	
		irritation.										·		
			ry Statements (F											
			n sources. No s											
			exposed skin +P338 – IF IN											
			es, if present an											
			advice/attention											
			0 °C (122 °F). F											
		or disposal f	acility (TSDF).											
.3	Other Warnings:	KEEP LOCK	KED UP AND O	UT OF REACH	OF CHI	LDREN								
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		<u> 3. C</u>	OMPOSIT	ION & INC	JKEU	ENI	INF				AITS IN	I AIR (mg	n/m³)	
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,UAI	T [®] Gold G-Series G100L		No. Non-Hazardo			14/1		NF IN						
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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision Date: 2/1/2018 4. FIRST AID MEASURES - cont'd 4 4 Acute Health Effects: Moderate irritation to eyes and skin near affected areas. Additionally, high concentrations of vapors can cause drowsiness, dizziness, headaches and nausea. Frostbite like effect to skin. 4.5 Chronic Health Effects: Overexposure may trigger asthma-like symptoms in some sensitive individuals. May also induce skin sensitization and respiratory hypersensitivity. Possible allergic dermatitis. 4.6 Target Organs: Eyes, Skin, Respiratory System. Medical Conditions 4.7 Pre-existing dermatitis, other skin conditions, and disorders of the HEALTH 1 Aggravated by Exposure: target organs (eyes, skin, and respiratory system). **FLAMMABILITY** 2 PHYSICAL HAZARDS 0 PROTECTIVE EQUIPMENT В **EYES** SKIN 5. FIREFIGHTING MEASURES Fire & Explosion Hazards: Level 1 Aerosol (NFPA 30B). Aerosols may burst at temperatures above 120 °F. Cool uninvolved 5.1 containers to prevent possible bursting. Aerosols may be projectile hazards when bursting. If aerosols are bursting, stay clear until bursting is complete. If involved in a fire, this product may decompose at high temperatures to form toxic gases (e.g., CO, Hydrogen Fluoride). 5.2 Extinguishing Methods: Water, Foam, CO₂, Dry Chemical. Use water spray to cool unopened containers. 5.3 Firefighting Procedures: 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 Spills: Before cleaning any spill or leak, individuals involved in spill 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. Small Spills: Wear appropriate protective equipment including gloves and protective eyewear. Use a non-combustible material such as vermiculite or sand to soak up the product any liquid and place into a container for later disposal. Do not use water or a material such as "speedy dry" to soak up material. Sweep up material using non-sparking materials (e.g., plastic brooms, shovels, dustpans) and place into a metal or plastic container. Large Spills: Keep incompatible materials (e.g., organics such as oil) away from spill. Stay upwind and away from spill or release. Isolate immediate hazard area and keep unauthorized personnel out of area. Stop spill or release if it can be done with minimal risk. Wear appropriate protective equipment including respiratory protection as conditions warrant. Sweep up material using non-sparking materials (e.g., plastic brooms, shovels, dustpans) and place into a metal or plastic container. 7. HANDLING & STORAGE INFORMATION 7.1 Work & Hygiene Practices: Do not eat, drink or smoke when handling this product. Contents under pressure. Handle as to avoid puncturing container(s). When used as intended, no additional protective equipment is necessary. Use chemical goggles if eye contact is possible. 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. To avoid unintentional spraying keep cap in place when not in use. Special Precautions: 7.3 Clean all spills promptly. 8. EXPOSURE CONTROLS & PERSONAL PROTECTION Exposure Limits: ACGIH NOHSC OSHA OTHER ppm (mg/m³) TLV STEL ES-TWA ES-STEL ES-PEAK STEL CHEMICAL NAME(S) DIFILIOROFTHANE (R-152A) NF 1000 NA 1000 NF NΑ 8.2 Ventilation & Engineering General mechanical (e.g., fans) or natural ventilation is sufficient when this product is in use. Use local or general Controls exhaust ventilation to effectively remove and prevent buildup of vapors or mist generated from the handling of this product. Ensure appropriate decontamination equipment is available (e.g., sink, safety shower, eye-wash station) 8.3 Respiratory Protection: No special respiratory protection is required under typical circumstances of use or handling. In instances where dusts of this product are generated, 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 Eye Protection: Avoid eye contact. None required under normal conditions of use. Safety glasses could be used 8.4 when handling or using large quantities of this product.



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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., ≥ 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.				
		9. PHYSICAL & CHEMICAL PROPERTIES				
9.1	Appearance:	Aerosol. Light yellow liquid.				
9.2	Odor:	Ethereal/hydrocarbon odor				
9.3	Odor Threshold:	NA NA				
9.4	pH:	NA NA				
9.5	Melting Point/Freezing Point:	NA NA				
9.6	Initial Boiling Point/Boiling					
	Range:	-25 °C @ 760 mmHg				
9.7	Flashpoint:	NA NA				
9.8	Upper/Lower Flammability Limits:	LEL: 4.32 % v/v - UEL: 20.2 % v/v (for 1,1-Difluoroethane)				
9.9	Vapor Pressure:	74 psig (5.1 bar) @ 20 °C				
9.10	Vapor Density:	1,1-Difluoroethane: 2.3 (air = 1.0)				
9.11	Relative Density:	0.870 – liquid concentrate				
9.12	Solubility:	Not soluble in water				
9.13	Partition Coefficient (log Pow):	NA NA				
9.14	Autoignition Temperature:	1,1-Difluoroethane: 455 °C (851 °F)				
9.15	Decomposition Temperature:	NA NA				
9.16	Viscosity:	5.4-7.5 cSt @ 104 °F				
9.17	Other Information:	VOC: 1,1-Difluoroethane - exempt per 40 CFR 51.100				
		40 OTABUITY O BEACTIVITY				
10.1	Stability:	10. STABILITY & REACTIVITY				
10.1	Hazardous Decomposition	Stable under normal conditions; unstable with heat or contamination.				
10.2	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).				
	t					
11.5	Suspected Carcinogen:	No.				
	Suspected Carcinogen: Reproductive Toxicity:					
		No. This product is not reported to produce reproductive toxicity in humans. This product is not reported to produce mutagenic effects in humans.				
	Reproductive Toxicity:	This product is not reported to produce reproductive toxicity in humans.				
	Reproductive Toxicity: Mutagenicity:	This product is not reported to produce 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.				
	Reproductive Toxicity: Mutagenicity: Embryotoxicity:	This product is not reported to produce reproductive toxicity in humans. This product is not reported to produce mutagenic effects in humans.				
11.6	Reproductive Toxicity: Mutagenicity: Embryotoxicity: Teratogenicity:	This product is not reported to produce 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. This product is not reported to cause teratogenic effects in humans.				
11.6	Reproductive Toxicity: Mutagenicity: Embryotoxicity: Teratogenicity: Reproductive Toxicity:	This product is not reported to produce 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. This product is not reported to cause teratogenic effects in humans. This product is not reported to cause reproductive effects in humans.				
11.6 11.7 11.8	Reproductive Toxicity: Mutagenicity: Embryotoxicity: Teratogenicity: Reproductive Toxicity: Irritancy of Product:	This product is not reported to produce 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. This product is not reported to cause teratogenic effects in humans. This product is not reported to cause reproductive effects in humans. The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) upon prolonged or repeated exposure.				
11.6 11.7 11.8	Reproductive Toxicity: Mutagenicity: Embryotoxicity: Teratogenicity: Reproductive Toxicity: Irritancy of Product: Biological Exposure Indices:	This product is not reported to produce 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. This product is not reported to cause teratogenic effects in humans. This product is not reported to cause reproductive effects in humans. The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) upon prolonged or repeated exposure. NE Treat symptomatically.				
11.6 11.7 11.8 11.9	Reproductive Toxicity: Mutagenicity: Embryotoxicity: Teratogenicity: Reproductive Toxicity: Irritancy of Product: Biological Exposure Indices: Physician Recommendations:	This product is not reported to produce 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. This product is not reported to cause teratogenic effects in humans. This product is not reported to cause reproductive effects in humans. The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) upon prolonged or repeated exposure. NE Treat symptomatically. 12. ECOLOGICAL INFORMATION				
11.5 11.6 11.7 11.8 11.9	Reproductive Toxicity: Mutagenicity: Embryotoxicity: Teratogenicity: Reproductive Toxicity: Irritancy of Product: Biological Exposure Indices:	This product is not reported to produce 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. This product is not reported to cause teratogenic effects in humans. This product is not reported to cause reproductive effects in humans. The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) upon prolonged or repeated exposure. NE Treat symptomatically.				



Other Requirements:

NA

15.8

SAFETY DATA SHEET

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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision Date: 2/1/2018 13. DISPOSAL CONSIDERATIONS 13.1 Waste Disposal: Disposal should be in accordance with local, state, provincial and federal regulations 13 2 Special Considerations: 14. TRANSPORTATION INFORMATION The basic description (ID Number, proper shipping name, hazard class & division, packing group) is shown for each mode of transportation. Additional descriptive information may be required by 49 CFR, IATA/ICAO, IMDG and the CTDGR. 49 CFR (GND): UN1950, AEROSOLS, 2.2 (LTD QTY, IP VOL ≤ 1.0 L); or CONSUMER COMMODITY, ORM-D (IP VOL ≤ 0.5 L) - until 12/31/2020 14 2 IATA (AIR): UN1950, AEROSOLS, NON-FLAMMABLE, 2.2 (LTD QTY, IP VOL ≤ 0.50 L); or \sqrt{Y} ID8000, CONSUMER COMMODITY, ORM-D (IP VOL ≤ 0.82 L) 14.3 IMDG (OCN): UN1950, AEROSOLS, 2.2 (LTD QTY, IP VOL ≤ 1.0 L) TDGR (Canadian GND): 14.4 UN1950, AEROSOLS, 2.2 (LTD QTY, IP VOL ≤ 1.0 L); or MARK PACKAGE "LIMITED QUANTITY," "LTD QTY," or "QUANT LTÉE" or "QUANTITÉ LIMITÉE" ADR/RID (EU): 14.5 UN1950, AEROSOLS, 2.2 (LTD QTY, IP VOL ≤ 1.0 L) SCT (MEXICO): 14 6 UN1950, AEROSOLES, 2.2 (CANT. LTDA., IP VOL ≤ 1.0 L) ADGR (AUS): 14 7 UN1950, AEROSOLS, 2.2 (LTD QTY, IP VOL ≤ 1.0 L) 15. REGULATORY INFORMATION SARA Reporting 15.1 This product does not contain any substances subject to SARA Title III, section 313 reporting requirements. Requirements 15.2 SARA Threshold Planning There are no specific Threshold Planning Quantities for the components of this product. Quantity 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 Other Federal Requirements: 15.5 NA 15.6 Other Canadian Regulations: This product has been classified according to the hazard criteria of the CPR and the SDS contains all 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 D2B (Other Toxic Effects). State Regulatory Information: 15.7 Difluoroethane can be found on the following state criteria lists: Massachusetts Hazardous Substances List (MA) and New Jersey Right-to-Know List (NJ). No other ingredients in this product, present in a concentration of 1.0% or greater, are listed on any of the following state criteria lists: California Proposition 65 (CA65), Delaware Air Quality Management List (DE), Florida Toxic Substances List (FL), Massachusetts Hazardous Substances List (MA), Michigan Critical Substances List (MI), Minnesota Hazardous Substances List (MN), New Jersey Right-to-Know List (NJ), New York Hazardous Substances List (NY), Pennsylvania Right-to-Know List (PA), Washington Permissible Exposures List (WA), Wisconsin Hazardous Substances List (WI). This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm. For more information go to www.P65Warnings.ca.gov.



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SDS Revision: 4.0 Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision Date: 2/1/2018 16. OTHER INFORMATION WARNING! PRESSURIZED CONTAINER; MAY BURST IF HEATED. CAUSES EYE IRRITATION. Keep away from 16 1 Other Information: heat, hot surface, sparks, open flames and other ignition sources. No smoking. Do not pierce or burn, even after use. Wash hands and exposed skin areas with soap and warm water thoroughly after handling. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: get medical advice/attention. Protect from sunlight. Do not expose to temperatures exceeding 50 °C (122 °F). KEEP LOCKED UP AND OUT OF REACH OF CHILDREN. 16.2 Terms & Definitions: See last page of this Safety Data Sheet. This Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR §1910.1200. Other 16.3 Disclaimer: government regulations must be reviewed for applicability to this product. To the best of ShipMate's & CAIG 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, are provided. The information contained herein relates only to the specific product(s). If this product(s) is combined with other materials, all component properties must be considered. Data may be changed from time to time. Be sure to consult the latest edition. 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 787 Sisters, Oregon 97759-0787 USA Tel: +1 (310) 370-3600

Training & Consulting

Fax: +1 (310) 370-5700

http://www.shipmate.com



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

SDS Revision: 4.0

SDS Revision Date: 2/1/2018

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				
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 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

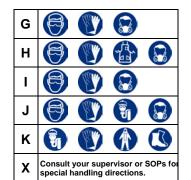
HMIS-III HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

0	Minimal Hazard			
1	Slight Hazard			
2	Moderate Hazard			
3	Severe Hazard			
4	Extreme Hazard			

HEALTH
FLAMMABILITY
PHYSICAL HAZARDS
PERSONAL PROTECTION

PERSONAL PROTECTION RATINGS:

Α			
В			
С	(E)	THE STATE OF THE S	
D		##. 	
Ε	(E)		
F		THE SECOND	





Splash Goggles



















Airline Hood/Mask or SCBA

OTHER STANDARD ABBREVIATIONS:

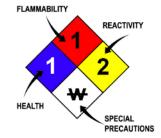
ML	Maximum Limit		
mg/m3	milligrams per cubic meter		
NA Not Available			
ND	Not Determined		
NE	Not Established		
NF	Not Found		
NR	No Results		
ppm	parts per million		
SCBA	Self-Contained Breathing Apparatus		

NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

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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
ACD	Acidic
ALK	Alkaline
COR	Corrosive
₩	Use No Water
ОХ	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 _{Io}	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 effects
TC, TCo, LCio, & LCo	
IARC	International Agency for Research on Cancer
NTP	National Toxicology Program
RTECS	Registry of Toxic Effects of Chemical Substances
BCF	Bioconcentration Factor
TL _m	Median threshold limit
log 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	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:

0	((\odot	(4)		
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:

(·····) ···· ·······													
T.		M	*		®	X	×						
С	E	F	N	0	Т	Xi	Xn						
Corrosive	Explosive	Flammable	Harmful	Oxidizing	Toxic	Irritant	Harmful						

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

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