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Prepared to OSHA, ACC, ANSI, WHSR, WHMIS, EU & GHS Standards SDS Revision: 4.1 SDS Revision Date: 4/25/2022

	pared to OSHA, ACC, ANS	SI, WHSR, WH	IMIS, EU & GH	S Standards			SDS Revi	sion: 4.1		SDS	Revisio	n Date	e: 4/25/2022
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.1	Product Name:		PRODUC										
			OSIN NO-	CLEAN S	OLDE	RING	FLUX	(P/N	RSF	-R3	9)		
.2	Chemical Name:	NA .	0 11 : 51	DN DOE DOO									
1.3	Synonyms: Trade Names:		Soldering Flux; RSF-R39 Flux I										
1.4	rrade Names.	CAIG ROSIN	KSF-K39 Flux	PART NOS:									
		Part No RS	F-R39-8G (8 gra	ams).	Part No. RS	SF-R39-2) (56 gran	ns).	Pai	t No	RSF-R	39-8	(226 g);
			F-R39-3KG (3 k		Part No. R		` •	, .					(=== 9);
1.5	Product Uses & Restrictions:	Soldering Flu	ux										
.6	Distributor's Name:	CAIG Labora											
.7	Distributor's Address:		her Court, Pow										
1.8	Emergency Phone:		EC: +1 (703)) 527-3887)	/ +1 (800) 424-9	9300						
1.9	Business Phone / Fax:	+1 (800) 224	I-4123										
			2. H	AZARDS	IDENT	IFICA	TION						
2.1	Hazard Identification:	Prepared in	accordance with					nded to	comply	with	OSHA:	29	
		CFR 1910.12	200. Canadian '	WHMIS and A	ustralian W	ork Heal	th and Sa	afety. Th	is prodi	uct is	classifi	ed	
			DOUS SUBSTA				GOODS	accordii	ng to th	e clas	sification	on	
			DHSC: 1088 (20 MAY CAUSE				ON MA	V 04116	SE 10		A CTIN	_	
			EFFECTS TO A			REACTI	ON. WA	1 CAUS	SE LUI	NG L	ASTIN	G	
		_	n: Skin Sens. 1										
2.2	Label Elements:	Hazard State	ements (H): H31	17 – May caus		c skin re	action. F	1413 - M	lay cau	se lor	g lastir	ng	
			cts to aquatic life										\ • /
		Precautional	ry Statements (F d release to the	P): P261 – Avo	oid breathin	g dust. P	264 – W	ash thor	oughly	after l	nandlin	g.	
			lenty of water. P										
			cific treatment se										
		was it before	e reuse. P337+	-P313 – If ey	e irritation	persists:	Get med	dical adv	vice/atte	entior			
		Dispose of c	ontents/contain	er to licenses	traatmant	etorana 1	and diena	acal facil	lity (TSI	JE)			
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2.3	Other Warnings:	1	KED UP AND O	OUT OF REAC	H OF CHIL	ENT I	NFOF	RMAT EXPO	ION OSURE L		OSHA	ig/m³)	1
2.3	Other Warnings:	1	KED UP AND O	OUT OF REAC	H OF CHIL	DREN.	NFOF	RMAT EXPO NOHSO ppm	ION DSURE L			ng/m³)	
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SDS-E-RSF-R39 Prepared to OSHA, ACC, ANSI, WHSR, WHMIS, EU & GHS Standards SDS Revision: 4.1 SDS Revision Date: 4/25/2022 4. FIRST AID MEASURES - cont'd 42 Effects of Exposure: Ingestion: If product is swallowed, may cause nausea, vomiting and/or diarrhea. Moderately irritating to the eyes. Symptoms of overexposure may include redness, itching, irritation, and Eyes: 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. 4.3 Symptoms of Overexposure Nausea, intestinal discomfort, vomiting and/or diarrhea. Ingestion: Eyes: Overexposure in eyes may cause redness, itching and watering. Symptoms of skin overexposure may include redness, itching, and irritation of affected areas. Frostbite like Skin: symptoms. The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) in some individuals. Acute Health Effects: 44 Non-irritating when used as directed. Moderate irritation to eves and skin near affected areas. Additionally, high concentrations of vapors can cause drowsiness, dizziness, headaches, and nausea. 4.5 Chronic Health Effects: Non-irritating when used as directed. 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: Eves. Skin. 4.7 **Medical Conditions** Pre-existing dermatitis, other skin conditions, and disorders of the HEALTH 2 Aggravated by Exposure: target organs (eyes, skin, and respiratory system). **FLAMMABILITY** 1 PHYSICAL HAZARDS 0 G PROTECTIVE EQUIPMENT **EYES** SKIN LUNGS 5. FIREFIGHTING MEASURES This product is not flammable. However, if involved in a fire, this product may decompose at high Fire & Explosion Hazards: temperatures to form toxic gases (e.g., CO, CO₂). 5.2 Extinguishing Methods: Water, Foam, CO₂, Dry Chemical, Halon (if permitted). Use extinguishing agents for surrounding 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 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 plastic container or plastic liner within another container. Large Spills: Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements, or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.

7 HANDLING & STORAGE INFORMATION

	7. HANDEING & GTORAGE INFORMATION					
7.1	Work & Hygiene Practices:	Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapors or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. Eating, drinking, and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking, and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.				
7.2	Storage & Handling:	Store between the following temperatures: 5 to 40°C (41 to 104°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.				
7.3	Special Precautions:	Clean all spills promptly. Spilled material may present a slipping hazard.				
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Prepared to OSHA, ACC, ANSI, WHSR, WHMIS, EU & GHS Standards

SDS Revision: 4.1

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Fieh	ared to OSHA, ACC, ANG	SI, WHSR, WHMIS, EU & GHS Standa	ras			2D2 K	evision: 4	. 1	303	Revision	Date: 4/25/2022
		8. EXPOSURE CONTRO		2 DE	DSO	NAI	DDO.	TECT	ION		
0.1	Exposure Limits:	6. EXPOSURE CONTRI			KSU	NOHSC	PKU	IEGI			OTUER
8.1	ppm (mg/m³)	CHEMICAL NAME/C)	TLV	STEL	ES-	ES-	ES-	PEL	STEL	IDLH	OTHER
		CHEMICAL NAME(S) ROSIN	NA	NA	TWA NF	STEL NF	PEAK NF	NA	NA	NA	SENSITIZER
		PROPRIETARY INGREDIENTS	3	NA	3	NF	NF	5	NA	15	RESP
		PROPRIETARY INGREDIENTS	3	NA	3	NF	NF	5	NA	15	RESP
		PROPRIETARY INGREDIENTS (SYNTHESIS REGULATORS) - ACTIVATORS	10	NA	NF	NF	NF	10	NA	NA	RESP FRAC
8.2	Ventilation & Engineering Controls:	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: • European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) • European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) • European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.									
8.3	Respiratory Protection:	No special respiratory protection is instances where dusts of this product protection authorized by 29 CFR §19 Standard Z94.4-93 and applicable Australia.	t are ge 10.134,	enerated applica	, and re	spirator State re	y protec egulatior	tion is n ns, or the	eeded, e Canad	use only lian CAS	/ S
8.4	Eye Protection:	Safety eyewear complying with an indicates this is necessary to avoid e possible, the following protection sho of protection: safety glasses with side	xposur uld be	e to liqu worn, ur	id splas	hes, mi	sts, gas	es or du	ısts. If c	ontact is	
8.5	Hand Protection:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.									
8.6	Body Protection:	Personal protective equipment for the and the risks involved and should be	e body	should l	oe seled	ted bas	ed on th	ne task l	being pe	erformed	3
		9. PHYSICAL &	CHF	MICA	AI PE	ROPE	RTIF	S			
9.1	Appearance:	Amber liquid (paste)									
9.2	Odor:	Solvent-like odor									
9.3	Odor Threshold:	NA									
9.4	pH:	NA									
9.5	Melting Point/Freezing Point:	10 °C (50 °F)									
9.6	Initial Boiling Point/Boiling	, ,									
0.7	Range:	NA									
9.7	Flashpoint:	127.22 °C (261 °F) CC									
9.8	Upper/Lower Flammability Limits:	NA									
9.9	Vapor Pressure:	NA									
9.10	Vapor Density:	NA		· · · · · · · · · · · · · · · · · · ·				· · · · · · · · · · · · · · · · · · ·			
9.11	Relative Density:	NA									
9.12	Solubility:	Very slightly soluble in the following	materia	ls: cold	water.						
9.13	Partition Coefficient (log Pow):	NA									
9.14	Autoignition Temperature:	NA									
9.15	Decomposition Temperature:	NA		-			-				
9.16	Viscosity:	NA									
9.17	Other Information:	VOC: 3.6% w/w; 2.568 g/L									
		10. STABI									
10.1	Stability:	Stable under normal conditions; unst	able wi	th heat o	or conta	mination	า.				
10.2	Hazardous Decomposition Products:	Under normal conditions of storage a			ous dec	omposi	tion prod	ducts sh	ould no	t be pro	duced.
10.3	Hazardous Polymerization:	Will not occur under normal condition									
10.4	Conditions to Avoid:	Open flames, sparks, high heat, inco									
10.5	Incompatible Substances:	Avoid extreme heat and ignition sour	ces. St	ore awa	y from c	xıdizing	materia	ıs, acids	s, and a	kalis.	

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SDS-E-RSF-R39 Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & 1272/2008/EC Standards SDS Revision: 3.1 SDS Revision Date: 4/25/2022 11. TOXICOLOGICAL INFORMATION Routes of Entry: 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. 11.4 Chronic Toxicity This material may aggravate any pre-existing skin condition (e.g., dermatitis). Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. 11.5 Suspected Carcinogen: This product does not contain any chemicals known to the State of California to cause cancer or other reproductive harm. For more information go to www.P65Warnings.ca.gov 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 reported to cause reproductive effects in humans. Irritancy of Product: The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) upon prolonged or repeated exposure. 11.7 11.8 Biological Exposure Indices: ΝE Physician Recommendations: 11.9 Treat symptomatically 12. ECOLOGICAL INFORMATION Environmental Stability 12 1 There is no specific data available for this product. Effects on Plants & Animals: 12.2 There are no specific data available for this product. 12.3 Effects on Aquatic Life: There are no specific data available for this product. 13. DISPOSAL CONSIDERATIONS Waste Disposal: Products covered by this SDS, 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: The user of this material has the responsibility to dispose of unused material, residues, and containers in compliance with all relevant local, state, federal and provincial regulations. 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): **NOT REGULATED** IATA (AIR): 14.2 **NOT REGULATED** IMDG (OCN): 14.3 NOT REGULATED TDGR (Canadian GND): 14.4 NOT REGULATED 14.5 ADR/RID (EU): NOT REGULATED SCT (MEXICO) 14.6 NOT REGULATED 14.7 ADGR (AUS): NOT REGULATED REGULATORY INFORMATION 15.1 SARA Reporting This product contains Proprietary Regulators (Synthesis Regulators) - Activators (Glycol Ether), a substance subject to Requirements: SARA Title III, section 313 reporting requirements. SARA Threshold Planning 15.2 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. 15.4 CERCLA Reportable Quantity

> This product has been classified according to the hazard criteria of the HPR and the SDS contains all of the information required by the HPR. The components of this product are listed on the DSL/NDSL.

WHMIS Classification: D2B (Other Toxic Effects). All components are listed or exempted.

NA

NA

15.5

15.6

Other Federal Requirements:

Other Canadian Regulations:

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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & 1272/2008/EC Standards SDS Revision: 3.1 SDS Revision Date: 4/25/2022 15. REGULATORY INFORMATION – cont'd State Regulatory Information: 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). This product does not contain any chemicals known to the State of California to cause cancer or other reproductive harm. For more information go to www.P65Warnings.ca.gov Other Requirements: This product is found on the following inventory lists: Australia - AICS, China - IECSC, Europe - ELINCS/EINEC, Japan -ENCS; Korea - KECI; New Zealand - NZIoC; {Philippines - PICCS; USA - TSCA 16. OTHER INFORMATION Other Information WARNING! MAY CAUSE AN ALLERGIC SKIN REACTION. MAY CAUSE LONG LASTIN HARMFUL EFFECTS TO AQUATIC LIFE. Avoid breathing dust. Wash thoroughly after handling. Avoid release to the environment. Wear protective gloves. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs get medical advice/attention. Specific treatments see this container label. Take off contaminated clothing and was it before reuse. If eye irritation persists: Get medical advice/attention. KEEP LOCKED UP 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. Other 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. Prepared for: CAIG Laboratories, Inc. 12200 Thatcher Court Poway, CA 92064-6876 Tel: +1 (800) CAIG-123 (244-4123) Fax: +1 (858) 486-8398 http://www.caig.com/ 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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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & 1272/2008/EC Standards

SDS Revision: 3.1

SDS Revision Date: 4/25/2022

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
RTECS No.	Registry of Toxic Effects of Chemical Substances Number
EINECS No.	European Inventory of Existing Commercial Chemical Substances Number

EXPOSURE LIMITS IN AIR:

ACGIH	American Conference on Governmental Industrial Hygienists
IDLH	Immediately Dangerous to Life and Health
NOHSC	National Occupational Health and Safety Commission (Australia)
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.

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

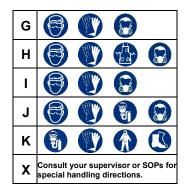
HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

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



PERSONAL PROTECTION RATINGS:

Α			
В			
С			
D			
E			
F		TT.	





OTHER STANDARD ABBREVIATIONS:

Carc	Carcinogenic				
Irrit	rritant				
NA	Not Available				
NR	No Results				
ND	Not Determined				
NE	Not Established				
NF	Not Found				
SCBA	Self-Contained Breathing Apparatus				
Sens	ens Sensitization				
STOT RE	STOT RE Specific Target Organ Toxicity – Repeat Exposure				
STOT SE	Specific Target Organ Toxicity – Single Exposure				

NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

FLAMMABILITY LIMITS IN AIR:						
Autoignition Temperature	Minimum temperature required to initiate combustion in air with no other source of ignition					
LEL	Lower Explosive Limit - lowest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source					
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	FLAMMABILITY
1	Slight Hazard	\
2	Moderate Hazard	REACTIVITY
3	Severe Hazard	
4	Extreme Hazard	
ACD	Acidic	\sim 1 \sim 2 \rightarrow
ALK	Alkaline	
COR	Corrosive	/ ~~~ ~~ ~
W	Use No Water	HEALTH 💉
OX	Oxidizer	SPECIAL
TREFOIL	Radioactive	PRECAUTIONS

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
TDio	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
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	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)				

WORKPLACE HAZARDOUS MATERIALS IDENTIFICATION (WHMIS) SYSTEM:

0	(A)	(2)	(3)	\odot	®		R
Class A	Class B	Class C	Class D1	Class D2	Class D3	Class E	Class F
Compressed	Flammable	Oxidizing	Toxic	Irritation	Infectious	Corrosive	Reactive

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