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MSDS-F-SN5S-6N

	LABORATORIES, IN				JIILLI	////	DJ-E-31433		
Prep	ared to OSHA, ACC, A	ansi, nohsc, whmis, 200	1/58/EC & 1272/2008	/EC Standards	MSDS Revision: 4.1	MSD	S Revision Date: 08	/20/2013	
			1 0000						
1.1	Due also et Manager		I. PROD	UCT IDEN	IIFICATION				
1.1	DeoxIT [®] Shi	eld S-Series, 5%	6 Spray, (P/N	I SN5S-6N), 163 g				
1.2	Chemical Name:								
13	See ingredients li	sted in section 3							
1.0	Synonyms: DeoxIT® Shield SN5S-6N, 5% Spray Trade Names:								
1.4	DeoxII® Shield SN5S-6N, 5% Spray Trade Names:								
1.5	Product Use:								
	Product Use: Lubricant and Protectant for electronic contacts & connectors Manufacturer's Name:								
1.6	Lubricant and Protectant for electronic contacts & connectors Manufacturer's Name:								
1.7	Manufacturer's Addres	es, Inc.							
	12200 Thatcher C	ourt, Poway, CA 92064	-6876 USA						
1.8	Emergency Phone:				_				
	CHEMTREC:	+1 (703) 527-3	887 / +1 (800)) 424-388	37				
1.9	Business Phone: +1 (800)-224-412	2							
	•1 (000)-224-412	5							
			2. HAZA	ARD IDENT	IFICATION				
	classification criteria of NOHSC: 1008(2004) and ADG Code (Australia). WARNING. Contains gas under pressure; may explode if heated. Colorless, volatile liquid with ethereal and faint sweetish odor. Non-flammable material. 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. At high temperatures (>250°C), decomposition products may include Hydrofluoric Acid (HF) and carbonyl halides. <u>Hazard Statements</u> (H): H280 – Contains gas under pressure; may explode if heated. <u>Precautionary Statements</u> (P): P280 – Wear protective gloves and eye protection. P305+P351+P338 – IF IN EYES - Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. P410 + P403 – Protect from sunlight. Store in a well-ventilated place. P501 – Dispose of							$\langle \cdot \rangle$	
2.2	Routes of Entry:	-	Inhalation:	YES	Absorption:	YES	Ingestion:	YES	
2.3	Effects of Exposure: EYES: SKIN: INGESTION: INHALATION:	"Frostbite-like" effects "Frostbite-like" effects Not considered to be Gross overexposure irregular heartbeat a weakness fainting la	s may occur if the s may occur if the a potential route may cause centr ccompanied by a	liquid or esca liquid or esca of exposure. al nervous sy strange feelir ss and death	ping vapors contact ping vapors contact stem depression, di ng in the chest, "hea	t the eyes. t the eyes. izziness, co art thumpin	Mists may cause Mists may cause onfusion, incoorc g," apprehensio	e irritation. e irritation. dination, drowsiness, n, light-headedness,	
2.4	Symptoms of Exposure	:		iss, and deam	•				
	EYES:	No exposure sympto	ms are reported b	y the manufac	turer.				
	SKIN: No exposure symptoms are reported by the manufacturer.								
	INGESTION.	Dizziness, confusion.	incoordination. d	or exposore. rowsiness, irre	aular heartbeat ac	companie	d by a strange '	feeling in the chest.	
		"heart thumping", ap	prehension, light-	headedness, v	weakness, fainting, l	oss of cons	ciousness, and c	death.	
2.5	Acute Health Effects:							. indiation	
	ETES: SKIN:	"Frostbite-like" effects	s may occur if the	liquid or esca	ping vapors contact	t the eyes.	Mists may cause	e irritation.	
	SKIN:"Frostbite-like" effects may occur if the liquid or escaping vapors contact the eyes. Mists may cause irritation.INGESTION:Not considered to be a potential route of exposure.								
	INHALATION:	Gross overexposure irregular heartbeat a weakness, fainting, lo	may cause centr ccompanied by a oss of consciousne	al nervous sy strange feelir ss, and death	stem depression, di 1g in the chest, "hec	izziness, co art thumpin	onfusion, incoord g", apprehensio	dination, drowsiness, n, light-headedness,	
2.6	Chronic Health Effects:								
2.7	The manufacture	r has not reported any	chronic health eff	ects.					
2./	None reported by	v the manufacturer.							
2.8	Toxicological Propertie	s:							
	None reported by	y the manufacturer.							

NA = Not Available; ND = Not Determined; NE = Not Established; C = Ceiling Limit; See Section 16 for Additional Definitions of Terms Used NOTE: all WHMIS required information is included. It is located in appropriate sections based on the ANSI Z400.1-2010 format.



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Prepo	epared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58/EC & 1272/2008/EC Standards MSDS Revision: 4.1 MSDS Revision Date: 08/20/2013													
		3. CC	MPOSITIC	ON & ING	REDIE	NT IN	FOR	MAT	ION					
			EXPOSURE LIMITS IN AI							IN AIR	(mg/r	m³)		
						AC	GIH		NOHS	0		OSHA		
						PP	m		ppm			ppm		OTHER
								ES-	ES-	ES-				
	CHEMICAL NAME(S)	CAS No.	RTECS No.	EINECS No.	%	TLV	STEL	TWA	STEL	PEAK	PEL	STEL	IDLH	
1,1,1,3,3-PENTAFLUOROPROPANE ISOBUTANE		E 460-73-1	UNK	419-170-6	60-100	300	NE	NF	NF	NF	NA	NE	NE	
DeoxIT [®] Shield, \$100L		75-28-5 TRADE SECRET	124300000	200-857-2	10-30	NE	NE	NF	NF	NE	15	NE	NE	
Deox	II* Shield, STOUL	IRADE SECRET	NA	NA	3-7	INE	NE	NF	INF	NF	NA	INC	NE	
			4.	FIRST AID	MEAS	URES								
4.1	First Aid:													
	EYES: Flush eyes thoroughly with copious amounts of water for at least 15 minutes, holding eyelid(s) open to ensure complete flushing. If irritation persists, seek immediate medical attention.													
	SKIN: Remove contaminated clothing and wash affected areas with soap and water. If irritation persists, seek prompt medical attention. Do not wear contaminated clothing until after it has been properly cleaned.													
	INGESTION: Drink p	lenty of water.	If irritation pe	rsists, contact	a physic	ian.								
	INHALATION: Remov	e victim to fre	sh air at onc	e. If breathi	ng is diff	icult, o	dmini	ster su	pplem	ental o	oxygei	n and	seek	immediate
	medic	al attention. If I	breathing stop	os, perform art	lificial res	piratio	n.							
4.2	2 Medical Conditions Aggravated by Exposure: HEALTH 1							1						
	None reported by the manufacturer. FLAMMABILITY 1						1							
	PHYSICAL HAZARDS 0					0								
							- 1	PRO	TECI	IVE	QUI	PME	NT	В
							- F	EVES	1	KIN			<u> </u>	-
											_		_	
			5. FIF	REFIGHTIN	IG ME	ASUR	ES							
5.1	Rashpoint & Method:													
6.0	Level I derosol.													
5.2	Altoightion temperature:	Pentalluoropro	bana											
5.3	Bammobility Limite	-remanooropic	Lower Evolu	vium Lineit /I El	1.	NA		llener	Evelo	rive Live	4 0 101	1.		4
5.4	Fire & Evolution Memorie		L cower explo	SIVE LITHT (LEL		NA		upper	EXDIO:	але пц	in (oet	1.	N N	A
5.5	Cylinders may rupture under fire conditions. This material will become combustible when mixed with air under pressure and exposed to strong ignition sources. Decomposition may occur. Contact of welding or soldering torch fiames with high concentrations of refrigerant can result in visible changes in the size and color of the torch flame. The flame effect will only occur in concentrations of product well above the recommended exposure imit, therefore stop all work and ventilate the area before proceeding. Use forced ventilation to disperse refrigerant vapors from the work area before using any open flames.													
0.0	COs Alcohol form Pry C	hemical Wate	r Ford											V
56	Ereficibilities Proceedings:	mernical, wale	nog									1		
2.0	Wear NIOSH/MSHA appr cool containers involved contact should be coole Keep containers cool un from entering sewers, dro	oved self-conto in fire. Do not a d with large qu til well after the ins, drinking we	ained breathin use direct wat antities of wa e fire is out to ater supply, or	g apparatus er stream. Co ter as needed prevent ruph any natural v	and proto ontainer s d to prevu ure. Prev vaterway	ective torage ent we vent rur	clothir areas akenir noff fro	ng. Use exposing of c m fire	e a wa ed to ontain contra	ater spr direct f er struc of or di	ay to lame ture. lution			



6.1

7.1

9.8

99

9.10

9.11

9.12

Odor Threshold:

Other Information: VOC Content

Solubility.

Viscosity:

рΗ

Spills:

SAFETY DATA SHEET

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ACCIDENTAL RELEASE MEASURES Secure spill area, remove or minimize all sources of ignition, and maximize ventilation. Stop spill or leak at source if safely possible. Deny entry to all unprotected individuals. Individuals involved in the cleanup must wear appropriate personal protective equipment. Recover free liquid or cover with inert absorbent material and place into appropriate container(s) for disposal. If necessary, dike well ahead of the spill to prevent runoff into drains, sewers or any natural waterway or drinking supply. Contact appropriate local and/or provincial authorities for assistance and/or reporting requirements. 7. HANDLING & STORAGE INFORMATION Work & Hygiene Practices:

Use normal hygiene practices. Avoid direct skin contact. Wash hands thoroughly after using this product and before eating, drinking, or smoking. 7.2 Storage & Handling: Use and store in a cool, dry, well-ventilated area. Keep away from excessive heat, open flames, sparks, and other possible sources of ignition. Do not store near or with any incompatible materials listed in section 10. Do not store in unmarked or open containers. Protect cylinders from physical damage. Do not store in subsurface areas. 7.3 Special Precautions

Readily available emergency fire, first aid, and spill response equipment and/or measures are highly recommended.

8. EXPOSURE CONTROLS & PERSONAL PROTECTION

8.1	Ventilation & Engineering Controls:					
	Normal ventilation for standard manufacturing procedures is generally adequate. Local exhaust should be used when large amounts are released. Mechanical ventilation should be used in low or enclosed places. Refrigerant concentration monitors may be necessary to determine vapor concentrations in work areas prior to use of torches or other open flames, or if employees are entering enclosed areas.					
8.2	Respiratory Protection:					
	A respiratory protection progrespirators use.	ram that meets ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a				
8.3	Eye Protection:					
	Safety glasses with side shie	ds should be used with this product. If splashing is anticipated, splash goggles and a faceshield are				
	recommended.					
8.4	Hand Protection:					
	Where contact is likely, impe against the skin.	rvious gloves are recommended. Do not wear rings, watches, or jewelry that could entrap the material				
8.5	Body Protection:					
	None required under normal c	onditions.				
		9. PHYSICAL & CHEMICAL PROPERTIES				
9.1	Density:	0.8				
9.2	Boiling Point:	15 °C (59 °F) - 1,1,1,3,3-Pentafluoropropane				
9.3	Melting Point: NA					
9.4	Evaporation Rate: NA					
9.5	Vapor Pressure:	50 +/- 5 psig @ 20 °C				
9.6	Molecular Weight:	ΝΑ				
9.7	Appearance & Color:	Light blue, aerosol				

Ethereal/hydrocarbon odor

Not soluble in water

NA

ND

268 gms/L



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		10. STABILITY & R	ACTIVITY	
10.1	Stability:			
10.2	Stable under normal conditions	of use (see section /).		
10.2	Change in color signifies expos	ure to ultraviolet light or exceeding shelf	life Will not degrade to	o unstable products. Discard solution
10.3	Hazardous Polymerization:	one to omethole light of exceeding sher	inc. Will not degrade it	
	Will not occur.			
10.4	Conditions to Avoid:			
	Use or storage near open flame trafficked areas.	es, sparks, high heat (>100 °F) or other he	at sources, and proxim	ity to incompatible substances and heavily
10.5	Incompatible Substances:			
	Strong oxidizers.			
		11. TOXICOLOGICAL	INFORMATION	
11.1	Toxicity Data:			
	1,1,1,3,3-Pentafluoropropane: the threshold for induction of c > 200,000 ppm. No lethality at No lethality at 100,000 ppm. Ev	Acute Dermal (rabbit) – LD ₅₀ > 2,000 mg/ ardiac arrhythmias in the presence of inj 200,000 ppm. Evidence of transient anes idence of transient under activity during	kg; Cardiac Sensitizatic ected adrenalin was 44 thetic effect. Acute Inh exposure.	on (dogs) – No effects noted at 35,000 ppm, 1,000 ppm. Acute Inhalation (rat): 4-hr. LC50 alation (mouse): 4-hr. LC50 > 100,000 ppm.
11.2	Acute Toxicity:			
	See section 2.5			
11.3	Chronic Toxicity:			
11.4	See section 2.6			
11.4	NE			
11.5	Reproductive Toxicity:			
	This product is not reported to p	produce reproductive toxicity in humans.		
	Mutagenicity:	This product is not reported to produce	mutagenic effects in hi	Jmans.
	Emplyoloxicity:	This product is not reported to produce	teratogenic effects in h	umans
·	Reproductive Toxicity:	This product is not reported to produce	reproductive effects in	humans.
11.6	Irritancy of Product:		•	
	See Section 2.3			
11.7	Biological Exposure Indices:			
11.8	Physician Recommendations:			
	Treat symptomatically.			
		12. ECOLOGICAL IN	FORMATION	
12.1	Environmental Stability:	from soil. Components of this product"		o organic compounds
12.2	Effects on Plants & Animals:	nom son. Components of his product wi	i slowly decompose ini	o organic compounds.
	There is no specific data availa	ble for this product.		
12.3	Effects on Aquatic Life: <u>1,1,1,3,3-Pentafluoropropane</u> : mg/L; 48 hr. EC ₅₀ > 97.9 mg/L.	Partition Coefficient: Log P _{ow} = 1.35 @ 21.5 Acute toxicity to Rainbow Trout (Limit Test	°C; Acute toxicity to Do : NOEC > 10 mg/L; 96 h	aphnia magna (Limit Test): NOEC > 97.9 ır. EC50 > 81.8 mg/L
13.1	Waste Disposal:			
13.2	Dispose of in accordance with Special Considerations:	teaeral, state or local regulations.		
	NA			



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	14. TRANSPORTATION INFORMATION	
Addl	atic description (ID Number, proper shipping name, hazard class & division, packing group) is shown for each mode of transportation. ional descriptive information may be required by 49 CFR. IATA/ICAO, IMDG, SCT, ADGR and the CTDGR.	
14.1	UN1950, AEROSOLS, 2.2, LTD QTY (IP VOL ≤ 1.0 L)	
14.2	IATA (AIR): UN1950, AEROSOLS, 2.2, LID QTY (IP VOL ≤ 820 ml)	2
14.3	IMDG (CCN): UN1950, AEROSOLS, 2.2, LTD QTY (IP VOL ≤ 1.0 L)	Ă
14,4	TDGR (Considen GND): MARK PACKAGE "LIMITED QUANTITY" or "QUANTITÉ LIMITÉE" or "LTD QTY" or "QUANT LTÉE" (IP VOL ≤ 1.0 L)	\bigcirc
14.5	ADR/RID (EU): UN1950, AEROSOLS, 2.2, LTD QTY (IP VOL ≤ 1.0 L)	Ť
14.6	SCT (MEDICO): UN1950, AEROSOLES, 2.2, CANTIDAD LIMITADA (IP VOL ≤ 1.0 L)	$\langle \mathbf{\bar{r}} \rangle$
147	ADGR (Australia): UN1950, AEROSOLS, 2.2, LTD QTY (IP VOL ≤ 1.0 L)	\checkmark
	15. REGULATORY INFORMATION	
15.1	SARA Reporting Requirements: NA	
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 sta	US.
15.4	CERCLA Reportable Quantity (RQ): NA	
15.5	Other Federal Requirements: Contains HFC-245fa, a greenhouse gas, a substance which may contribute to global warming. Regulated under Sec Clean Air Act and 40 CFR Part 82, subpart G.	tion 612 (SNAP) of the
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.	
157	State Regulatory Information: The primary components of this product are not listed on any of the following state criteria lists: California OSHA; C Massachusetts Right to Know List of Chemicals; New Jersey Right to Know List 8:59 Appendix A; Pennsylvania Hazar 323 Appendix A: Wisconsin Hazardous Substances List NR 605.09; Minnesota Hazardous Substances List; and Florida	alifornia Proposition 65; dous Substances List 34 Toxic Substances List.
15.8	 SY/54/EEC (European Union) Requirements: The primary components of this product are not listed in Annex I of EU Directive 67/548/EEC. WARNING. Contains gas under pressure; may explode if heated. Colorless, volatile liquid with ethereal and faint sweetish odor. Non-flammable material. 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. At high temperatures (>250°C), decomposition products may include Hydrofluoric Acid (HF) and carbonyl halides. <u>Hazard Statements</u> (H): H280 – Contains gas under pressure; may explode if heated. <u>Precautionary Statements</u> (P): P280 – Wear protective gloves and eye protection. P305+P351+P338 – IF IN EYES - Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. P410 + P403 – Protect from sunlight. Store in a well-ventilated place. P501 – Dispose of contents/container through licensed treatment, storage or disposal facility. 	$\langle \! \rangle$



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	16. OTHER INFORMATION						
16.1	Other Information:						
	NA						
16.2	Terms & Definitions:						
	See page 7 of this MSDS.						
16.3	Disclaimer:						
	This Material Safety Data Sheet is offere regulations must be reviewed for appli information contained herein is reliable and no warranties of any type, either ex product(s). If this product(s) is combined time to time. Be sure to consult the lates	d pursuant to OSHA's Hazard Communication Standard, 29 CFR §1910.1200. Other government cability to this product. To the best of ShipMate's & CAIG Laboratories, Inc.'s knowledge, the and accurate as of this date; however, accuracy, suitability or completeness are not guaranteed kpressed or implied, are provided. The information contained herein relates only to the specific d with other materials, all component properties must be considered. Data may be changed from t 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/	LABORATORIES, INC.					
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 ShipMate					



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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:

CAS No. Chemical Abstract Service Number

EXPOSURE LIMITS IN AIR:

ACGIH	American Conference on Governmental Industrial Hygienists
TLV	Threshold Limit Value
OSHA	U.S. Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
IDLH	Immediately Dangerous to Life and Health

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

PERSONAL PROTECTION RATINGS:

A	S				G	S	\$	₩		
в	S	\$			н	9	\$	~	*	
С	S	\$			Ι	S.	\$	*		
D	Ø	\$	1		J	9	\$		*	
Е	S	\$	9		κ	Ŷ	\$	X	L	
F	S	\$	1	8	X	Consult y special h	our supe andling	sivisor or 3 directions	OPs for	
	S		¢)	Foc	B Shield &				
So	fety Gloss	818	Splash Go	ggles	Eye	Protection		Glove	n	
	L		-	ŀ		T				
			symmetric	/ /	,	ġ.			ector	
Full Face Respirator			Dust & Vapor Half- tespirator Mask Respirator		Pu Re	di face spirator	A	Aldine Hood/Mask or SC8A		
	\bigcirc		Note: the dated circle indicates that this respiratory protective equipment is required for high concentrations or for large volume splits or releases of product.							

OTHER STANDARD ABBREVIATIONS:

NA	Not Avalable
NR	No Results
NE	Not Established
ND	Not Determined
ML	Maximum Limit
SCRA	Self-Contained Breathing Apparatus

NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

FLAMMABILIT	Y 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 oir, 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 orignite in the presence of an ignition source

DOLOND NO.	11102.
0	Minimal Hazard
1	Slight Hozard
2	Moderate Hazard
3	Severe Hazard
4	Edreme Hazard
ACD	Acidic
ALK	Alkaline
COR	Corrosive
w	Use No Water
01	Oxiditer

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HA7ARD RATINGS:



TOXICOLOGICAL INFORMATION:

TREFOIL Radioactive

LDya	Lethal Dase (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							
1D _{io}	Lowest dose to cause a symptom							
TCLo	Lawest concentration to cause a symptom							
1Die, LDie, & LD ₈ or	Lowest dose (or concentration) to cause lethal or toxic							
TC, TC ₀ , LC ₁₀ , & LC ₀	effects							
IARC	International Agency for Research on Cancer							
NTP	National Taxicology Program							
RTECS	Registry of Taxic Effects of Chemical Substances							
BCF	Bioconcentration Factor							
n _{ce}	Median threshold limit							
log Kow or log Koc	Coefficient of Oil/Water Distribution							

REGULATORY INFORMATION:

WHMIS	Canadian Workplace Hazardous Material Information System
TOD	U.S. Department of Transportation
1C	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:

Ø	۲	۲	۲	1	۲	۲	R
A	В	с	D1	D2	D3	E	F
Composeed	Rommobile	Oxideing	Taste	initation	intections	Conceive	Beactive

EC (67/548/EEC) INFORMATION:

	飂	*	Ł	0		×	×
с	E	F	N	0	T+	Xi	Xn
Compliant	Explosive	Paravalite	Renabil	Oxidating	Taxie	intent	Harmful

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

\diamond	٩	\diamond	¢	۲		♦	♦	ŧ.
G#901	64683	G#900	Gr684	G#905	Grean	G#907	61688	GHSOP
Explosive	Rommobile	Oxidaw	heavied	Corosine	fasic	Harmital Initialized	Headle Headed	Devicement