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SDS-E-SN5S Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & 1272/2008/EC Standards SDS Revision Date: 9/20/2018 SDS Revision: 6.3 1. PRODUCT & COMPANY IDENTIFICATION 1 1 Product Name: DEOXIT® SHIELD S-SERIES SN5, 5% SPRAY, NON-FLAMMABLE, VOC COMPLIANT 1.2 Chemical Name: 1.3 Synonyms DeoxIT® Shield S-Series 5% Spray; PN SN5S-6N and SN5S-2N (mini-spray) 1.4 Trade Names: DeoxIT® Shield S-Series 5% Spray; PN SN5S-6N (163 grams), PN SN5S-2N (40 grams) 1.5 Product Use: Lubricant and Protectant for electronic contacts & connectors 1.6 Distributor's Name: CAIG Laboratories, Inc. 1.7 Distributor's Address: 12200 Thatcher Court, Poway, CA 92064-6876 USA 1.8 Emergency Phone: CHEMTREC: +1 (703) 527-3887 / +1 (800) 424-9300 (CCN205206) 1.9 Business Phone / Fax: +1 (800) 224-4123 2. HAZARDS IDENTIFICATION 21 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). WARNING! PRESSURIZED CONTAINER; MAY BURST IF HEATED. CAUSES EYE IRRITATION. Classification: Aerosols 3, Eye Irrit. 2B 2.2 Label Elements: Hazard Statements (H): H229 - Pressurized container; may burst if heated. H320 - Causes eye Precautionary Statements (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 use. P264 – Wash thoroughly after handling. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy. Continue rinsing. P337+P313 - If eye irritation persist: Get medical advice/attention. P403 - Store in a well-ventilated place. 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) Other Warnings: 2.3 KEEP OUT OF REACH OF CHILDREN. 3. COMPOSITION & INGREDIENT INFORMATION EXPOSURE LIMITS IN AIR (mg/m³) **ACGIH** NOHSC **OSHA** ppm ppm ppm ES-EINECS No. TI V STEL STFI IDI H CHEMICAL NAME(S) CAS No. RTECS No. TWA STEL **PEAK** PFI OTHER NA NA NA 60-100 NA NA NF NF NF NA NA NA SOLSTICE® PF REACH Reg. No. 01-2119855084-38 1-PROPENE, 1,3,3,3-29118-24-9 NA NA 15-30 NA NA NF NF NF NA NA NA TETRAFLUORO-, (1E) REACH Reg. No. 01-0000019758-54 NA NA NF NF NF 15 NA DEOXIT ® SHIELD S100L NA NA 3-7 NA NA (TRADE SECRET) REACH Reg. No. Non-hazardous/Proprietary 4. FIRST AID MEASURES If ingested, do not induce vomiting. If product has been swallowed, drink plenty of water or milk First Aid: Ingestion: IMMEDIATELY. If the patient is vomiting, continue to offer water or milk. Never give water or milk to an unconscious person. Contact the nearest Poison Control Center or local emergency number. Provide an estimate of the time at which the material was ingested and the amount of the substance that was swallowed. Splashes are not likely; however, mist may cause irritation. If product gets in the eyes may cause irritation; Eyes: flush with copious amounts of lukewarm water for at least 15 minutes lifting upper and lower lids, occasionally. If irritation persists repeat flushing. Get medical attention. Skin: Wash thoroughly with soap and water. In case of contact, immediately flush skin with plenty of water for at least 15 minutes. Treat for frostbite if necessary, be gently warming affected area. If irritation, redness or swelling persists, contact a physician immediately. Remove victim to fresh air at once. If breathing difficult, administer oxygen. Gross overexposure may Inhalation: cause central nervous system depression, dizziness, confusion, incoordination, drowsiness, irregular heartbeat accompanied by a strange feeling in the chest, "heart thumping," apprehension, lightheadedness, weakness, fainting, loss of consciousness, and death. 42 Effects of Exposure: If product is swallowed, may cause nausea, vomiting and/or diarrhea. Ingestion: Moderately irritating to the eyes. Symptoms of overexposure may include redness, itching, irritation and Eyes: watering. May be irritating to skin. The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) in Skin: some sensitive individuals. Inhalation: Gross overexposure may cause central nervous system depression, dizziness, confusion, incoordination,

drowsiness, irregular heartbeat accompanied by a strange feeling in the chest, "heart thumping,"

apprehension, light-headedness, weakness, fainting, loss of consciousness, and death.



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.3	Symptoms of Overexposure:	Ingostion	Nouses intestinal dis	noomfort vom	iting and/or a	iorrhoo					
.0	dymptoms of Overexposure.		Nausea, intestinal dis Overexposure in eye		•		ntoring				
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			Symptoms of skin or like symptoms. The individuals.								
			Gross overexposure drowsiness, irregula	r heartbeat	accompanied	lbý as	trange fe	eeling in the	chest,		
			apprehension, light-h								
4	Acute Health Effects:		ation to eyes and s zziness, headaches					h concentrati	ions of v	apors c	an cau
5	Chronic Health Effects:	Overexposure	may trigger asthma- persensitivity. Possib	like symptom	ns in some se			May also inc	duce skin	n sensitiz	zation a
6	Target Organs:		espiratory System.								
7	Medical Conditions	Pre-existing d	ermatitis, other skin	conditions,	and disorders	s of the	HEALT	Н			1
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2	Extinguishing Methods:			•	ray to cool ur	opened c	ontainers				
		Water, Foam, CO <sub>2</sub> , Dry Chemical. Use water spray to cool unopened containers.									
3	Firefighting Procedures:	Fight fires as for surrounding materials. As in any fire, wear MSHA/NIOSH approved self-									
3	Firefighting Procedures:		•	aterials. As							0
.3	Firefighting Procedures:	contained brea	for surrounding mathing apparatus (pre	aterials. As essure-demar Jse water sp	nd) and full pr ray to cool t	otective o	gear. Ke ed surfac	ep containers es and to pi	s cool rotect	1	0
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SDS-E-SN5S

	LABORATORIES, INC.				
Prepa	ared to OSHA, ACC, ANS	SI, NOHSC, WHMIS, GHS & 1272/2008/EC Standards SDS Revision: 6.3 SDS Revision Date: 9/20/2018			
	8.	EXPOSURE CONTROLS & PERSONAL PROTECTION – cont'd			
8.3	Respiratory Protection:	No special respiratory protection is required under typical circumstances of use or handling. If necessary, use only respiratory protection authorized per U.S. OSHA's requirement in 29 CFR §1910.134, or applicable U.S. state regulations, or the appropriate standards of Canada, its provinces, E.C. member states, or Australia.			
8.4	Eye Protection:	Avoid eye contact. Protective eyewear recommended. Wear protective eyewear (e.g., safety glasses with side-shield) at all times when handling large quantities (of this product. Always use protective eyewear when cleaning spills or leaks. Contact lenses pose a special hazard; soft lenses may absorb and concentrate irritants.			
8.5	Hand Protection:	None required under normal conditions of use. However, may cause skin irritation in some sensitive individuals. If anticipated that prolonged & repeated skin contact will occur during use of this product, wear latex or rubber gloves for routine industrial use. If necessary, refer to U.S. OSHA 29 CFR §1910.138, the appropriate standards of Canada, of the E.C. member states.			
8.6	Body Protection:	No special body protection is required under typical circumstances of use and handling. If necessary, refer to appropriate standards of Canada, the E.C. member states, or U.S. OSHA.			
		9. PHYSICAL & CHEMICAL PROPERTIES			
0.1	Annearance:				
9.1	Appearance: Odor:	Light blue aerosol spray/mist			
9.2	Odor: Odor Threshold:	Ethereal / hydrocarbon odor  NA			
9.4	pH:	NA NA			
9.5	Melting Point/Freezing Point:	NA NA			
9.6	Initial Boiling Point/Boiling Range:	NA NA			
9.7	Flashpoint:	NA NA			
9.8	Upper/Lower Flammability Limits:	NA NA			
9.9	Vapor Pressure:	50 +/-5 psig @ 20 °C			
9.10	Vapor Density:	NA NA			
9.11	Relative Density:	0.852 ± 0.012 (7.10 ± 0.1 lb/gal)			
9.12	Solubility:	Partial to complete			
9.13	Partition Coefficient (log Pow):	NA NA			
9.14	Autoignition Temperature:	NA NA			
9.15	Decomposition Temperature:	NA NA			
9.16	Viscosity:	NA Lauring and the state of the			
9.17	Other Information:	0% VOC			
		40 CTADILITY O DEACTIVITY			
		10. STABILITY & REACTIVITY			
10.1	Stability:	This product is stable.			
10.2	Hazardous Decomposition Products:	Oxides of carbon (CO, CO <sub>2</sub> ) and sulfur (SO <sub>2</sub> ).			
10.3	Hazardous Polymerization:	Will not occur.			
10.4	Conditions to Avoid:	Open flames, sparks and high heat.			
10.5	Incompatible Substances:	None known.			
		44 TOVICOLOGICAL INTERPLATION			
		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:	See section 4.4			
11.4	Chronic Toxicity:	See section 4.5			
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 <a href="https://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>			
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.			
11.7	Irritancy of Product:	See Section 4.2			
11.8	Biological Exposure Indices:	NE			
11.9	Physician Recommendations:	Treat symptomatically.			



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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & 1272/2008/EC Standards SDS Revision: 6.3 SDS Revision Date: 9/20/2018 12. ECOLOGICAL INFORMATION Environmental Stability: 12.1 There is no specific data available for this product. 12.2 Effects on Plants & Animals: There are no specific data available for this product. Effects on Aquatic Life: 12.3 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. 13. DISPOSAL CONSIDERATIONS Waste Disposal: 13.1 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. Special Considerations: 13.2 California Waste Code: 331 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): CONSUMER COMMODITY, ORM-D (IP VOL ≤ 1000 mL) - until 12/31/2020 UN1950, AEROSOLS, 2.2 (LTD QTY, IP VOL ≤ 1000 mL) 14.2 IATA (AIR): ID8000, CONSUMER COMMODITY, 9 (IP VOL ≤ 500 mL)  $\sqrt{Y}$ UN1950, AEROSOLS, NON-FLAMMABLE, 2.2 (LTD QTY, IP VOL ≤ 820 mL) 14.3 IMDG (OCN): UN1950, AEROSOLS, 2.2 (LTD QTY, IP VOL ≤ 1000 mL) 14.4 TDGR (Canadian GND): UN1950, AEROSOLS, 2.2 (LTD QTY, IP VOL ≤ 1000 mL) 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 ≤ 1000 mL) 14.6 SCT (MEXICO): UN1950, AEROSOLS, 2.2 (CANTIDAD LIMITADA, IP VOL ≤ 1000 mL) 14 7 ADGR (AUS): UN1950, AEROSOLS, 2.2 (LTD QTY, IP VOL ≤ 1000 mL) 15. REGULATORY INFORMATION 15.1 SARA Reporting This product does not contain any substances subject to SARA Title III, section 313 reporting requirements. SARA TPQ: 15.2 There are no specific Threshold Planning Quantities for the components of this product. TSCA Inventory Status: 15.3 The components of this product are listed on the TSCA Inventory. 15.4 CERCLA Reportable Quantity NA This material does not contain any hazardous air pollutants. This material does not contain any material listed as a 15.5 Other Federal Requirements Hazardous Substance under the CWA. None of the components in this product are listed as priority pollutants under the CWA. None of the components in this product are listed as toxic pollutants under the CWA. 15.6 Other Canadian Regulations: This product has been classified according to the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by the CPR. The components of this product are listed on the DSL/NDSL. None of the components of this product are listed on the Priorities Substances List. 15.7 State Regulatory Information: 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 (WI).

Other Requirements:

15.8

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

This product <u>does not</u> 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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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & 1272/2008/EC Standards SDS Revision: 6.3 SDS Revision Date: 9/20/2018

	16. OTHER INFORMATION				
16.1	Other Information:	WARNING! PRESSURIZED CONATINER; MAY BURST IF HEATED. CAUSES EYE IRRITATION. Use only as directed. Keep away from heat, hot surface, sparks, open flames and other ignition sources. No smoking. Do not pierce or burn, even after use. Wash 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 persist: Get medical advice/attention. Store in a well-ventilated place. Protect from sunlight. Do not expose to temperatures exceeding 50 °C / 122 °F. KEEP 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.			
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/	CAIC LABORATORIES, INC.		
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	ShipMate*  Dangerous Goods Training & Consulting		



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SDS Revision: 6.3

#### **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

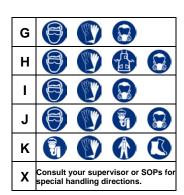
#### **HEALTH, FLAMMABILITY & REACTIVITY RATINGS:**

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



#### PERSONAL PROTECTION RATINGS:

Α			
В			
С		THE STATE OF THE S	
D	(EL)	THE STATE OF THE S	
Е			
F		THE SECOND	





#### OTHER STANDARD ABBREVIATIONS:

Carc	Carcinogenic		
Irrit	Irritant		
NA	Not Available		
NR	No Results		
ND	Not Determined		
NE	Not Established		
NF	Not Found		
SCBA	Self-Contained Breathing Apparatus		
Sens	Sensitization		
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	
ALK	Alkaline	
COR	Corrosive	/ <b>Y W Y</b>
₩	Use No Water	HEALTH
ох	Oxidizer	SPECIAL
TREFOIL	Radioactive	PRECAUTIONS

#### TOXICOLOGICAL INFORMATION:

Lethal Dose (solids & liquids) which kills 50% of the exposed animals	
Lethal concentration (gases) which kills 50% of the exposed animal	
Concentration expressed in parts of material per million parts	
Lowest dose to cause a symptom	
Lowest concentration to cause a symptom	
Lowest dose (or concentration) to cause lethal or toxic effects	
International Agency for Research on Cancer	
National Toxicology Program	
Registry of Toxic Effects of Chemical Substances	
Bioconcentration Factor	
Median threshold limit	
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	<b>*</b>	<b>(2)</b>		$\odot$	(4)		(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:

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