

Page 1 of 6 SAFETY DATA SHEET SDS-E-DN5S Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & 1272/2008/EC Standards SDS Revision Date: 5/31/2022 SDS Revision: 6.3 1. PRODUCT & COMPANY IDENTIFICATION 1 1 Product Name DEOXIT® D-SERIES DN5, 5% SPRAY, NON-FLAMMABLE, VOC COMPLIANT 1.2 Chemical Name: 1.3 Synonyms DeoxIT® D-Series 5% Spray; PN DN5S-6N, DN5S-6N-LMH and DN5S-2N (mini-spray) 1.4 Trade Names: DeoxIT® D-Series 5% Spray; PN DN5S-6N/DN5S-6N-LMH (163 grams), PN DN5S-2N (40 grams) 1.5 Product Use: Deoxidize and improve electrical 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 This product is classified as a HAZARDOUS SUBSTANCE and as DANGEROUS GOODS according to the classification 2 1 Hazard Identification: 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: KEEP OUT OF REACH OF CHILDREN. 3. COMPOSITION & INGREDIENT INFORMATION EXPOSURE LIMITS IN AIR (mg/m³) **ACGIH** NOHSC **OSHA** ppm ppm ppm ES-ES-ES-RTECS No. TΙV STFI CHEMICAL NAME(S) CAS No. **EINECS No.** STEL TWA STEL **PEAK** PFI IDI H OTHER 102687-65-0 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 NA NA NA NF TETRAFLUORO-, (1E) REACH Reg. No. 01-0000019758-54 NA NA NF NF NF 15 NA NA NA NA 3-7 NA DEOXIT® D100L (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: 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: watering. May be irritating to skin. The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) in Skin:

some sensitive individuals.

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.

Inhalation:



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3	Symptoms of Overexposure:	Ingestion:	Nausea, intesti	nal discomfor	t, vomitin	ng and/or d	iarrhea.						
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			like symptoms	The produc	ct can ca	ause allerg	ic skin r	eactions (e.g., rash	nes, welt	s, derm	natitis) in	n sor
		Inhalation:	individuals. Gross overexp	neure may ca	uise cen	tral nervou	e evetem	denressi	on dizzin	ness con	nfusion	incoordi	inatir
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	LABORATORIES, INC.	
Prepa	ared to OSHA, ACC, ANS	SI, NOHSC, WHMIS, GHS & 1272/2008/EC Standards SDS Revision: 6.3 SDS Revision Date: 5/31/2022
	0	EXPOSURE CONTROLS & PERSONAL PROTECTION – cont'd
0.0		
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
9.1	Appearance:	Light red aerosol spray/mist
9.2	Odor:	Ethereal / hydrocarbon odor
9.3	Odor Threshold:	NA
9.4	pH:	
9.4	Melting Point/Freezing Point:	NA NA
9.6	Initial Boiling Point/Boiling	NA NA
	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 .
9.14	Autoignition Temperature:	NA NA
9.15	Decomposition Temperature:	NA NA
9.16	Viscosity:	NA NA
9.17	Other Information:	0% VOC
		10. STABILITY & REACTIVITY
10.1	Stability:	
	·	This product is stable.
10.2	Hazardous Decomposition Products:	Oxides of carbon (CO, CO ₂) and sulfur (SO ₂).
10.3	Hazardous Polymerization:	Will not occur.
10.4	Conditions to Avoid:	Open flames, sparks and high heat.
10.5	Incompatible Substances:	None known.
		14 TOYICOLOGICAL INFORMATION
11 1	Pouton of Entri	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, 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
11.6	Reproductive Toxicity:	harm. For more information go to www.P65Warnings.ca.gov
11.0		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 NE
11.9	Physician Recommendations:	Treat symptomatically.



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		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 to overexposed aquatic life.	r fata
		13. DISPOSAL CONSIDERATIONS	
13.1	Waste Disposal:	Products covered by this MSDS, in their original form, when disposed as waste, are considered non hazardous vaccording 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	
		, proper shipping name, hazard class & division, packing group) is shown for each mode of transportation. Additional descriptive inform VICAO, IMDG and the CTDGR.	matio
14.1	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) 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"	
14.5	ADR/RID (EU):	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 Requirements:	This product does not contain any substances subject to SARA Title III, section 313 reporting requirements.	
15.2	SARA TPQ:	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:	NA	
15.5	Other Federal Requirements:	This material does not contain any hazardous air pollutants. This material does not contain any material listed as a Hazardous Substance under the CWA. None of the components in this product are listed as priority pollutants und 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 criteria lists: California Proposition 65 (CA65), Delaware Air Quality Management List (DE), Florida Toxic Substatist (FL), Massachusetts Hazardous Substances List (MA), Michigan Critical Substances List (MI), Minn Hazardous Substances List (MN), New Jersey Right-to-Know List (NJ), New York Hazardous Substances List Pennsylvania Right-to-Know List (PA), Washington Permissible Exposures List (WA), Wisconsin Hazardous Substatist (WI).	tance neso : (NY



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16. OTHER INFORMATION WARNING! PRESSURIZED CONATINER; MAY BURST IF HEATED. CAUSES EYE IRRITATION. Use only as 16.1 Other Information: 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. Terms & Definitions: 16.2 See last page of this Safety Data Sheet. Disclaimer: 16.3 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.





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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.	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 Num			

EXPOSURE LIMITS IN AIR:

ACGIH	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			
Е			
F		H.	

G				
Н			H.	
I				
J			F	
K	9		M	
Х	Consult y special h	our supe	rvisor or irections.	SOPs for



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

FLAMMABILI	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	── / ▼ ₩ У
W	Use No Water	HEALTH
ОХ	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			
TD ₁₀ Lowest dose to cause a symptom				
TCLo Lowest concentration to cause a symptom				
TD _{Io} , LD _{Io} , & LD _o or	lo, LD _{lo} , & 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	PSL Canadian Priority Substances List			
TSCA	TSCA U.S. Toxic Substance Control Act			
EU	European Union (European Union Directive 67/548/EEC)			
WGK	K Wassergefährdungsklassen (German Water Hazard Class)			

WORKPLACE HAZARDOUS MATERIALS IDENTIFICATION (WHMIS) SYSTEM:

0	(4)	(2)		\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

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

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