CAIG LABORATORIES, INC.
Since 1956

DeoxIT® Shield SN5 Spray, S-Series
Contact & Connector Protector

Part No.: EZ5SN5S-6N

Container Size: 163 g (5.75 oz.)

Product Description:

Contact lubricant and protectant for metal surfaces.
Oxidation and corrosion deterent.
Improves conductivity, maintains optimum signal quality.
DeoxIT® Shield also reduces wear and abrasion, arcing, RFI and
intermittent connections and improves connector performance/reliability.
Ideal for severe environments. On oxidized surfaces, pre-treat
with DeoxIT® D-Series contact cleaner.
Temperature range: -34°C to +210°C.

Features/Benefits:

Spray - Quick Dry Solvent, Non-Drip, Safe on Most Plastics.
DeoxIT® Shield S100L concentrate has 0.0% chemical cleaning action.
Ideal for severe environments (humidity, salts, pollutants, sulfur, etc.)
Excellent protection, good conductivity enhancing, excellent lubrication.
Creates a long lasting barrier against oxidation and corrosion.
No ozone depletion.
Reduces intermittent connections, arcing, RFI, wear and abrasion.
Cleaner Audio - Clearer Video - Reliable Data.

Formulation:

5%	DeoxIT® Shield S100L, S-Series
60-90%	1,1,1,3,3-PENTAFLUOROPROPANE (460-73-1)
10-30%	ISOBUTANE propellant (75-28-5)

VOC COMPLIANT   **RoHS** COMPLIANT

Which DeoxIT® product do I Use:

► Use **DeoxIT® D-Series** contact cleaner on surfaces that have been in service or have visual signs of oxidation. Contains 20% active cleaner.

► Use **DeoxIT® Gold G-Series** conditioner on new surfaces, and gold plated surfaces. Ideal for preventing dendrite/fretting corrosion. Protects both surface and base metals. Ideal for critical applications. Contains >1% active cleaner.

► Use **DeoxIT® Shield S-Series** to protect surfaces from severe environments (humidity, salts, pollutants, sulfur, etc.).   Use on clean surface.   Contains 0% active cleaner.

Directions for Use:

1. Turn off, unplug the device.
2. On surfaces that have been in service or have visual signs of oxidation or corrosion pre-treat with DeoxIT® D-Series (D5S-6) contact cleaner (see Data Sheet DS-D5S-6) or other cleaning process (ultra-sonics). Components, contacts and connectors may appear to be clean; however, they may have slight oxidation on the surfaces. When in doubt, first clean with DeoxIT® D-Series. You do not want apply DeoxIT® Shield S-Series over dirty/oxidized metal surfaces.
3. Next, adjust valve (L-M-H). Apply one short burst of DeoxIT® Shield S-Series contact protector to contact/connector metal surfaces.
4. **CAUTION:** Using spray without the extension tube, product is nonflammable. When using the tube, their may be a small flame extension when spraying - the spray will be flammable.
5. Operate the part/device to help distribute the DeoxIT® Shield. Apply one more short burst. Wait two minutes before turning on equipment. **Test for compatibility before use.**
6. ***For extended protection***: For ***severe environments*** (humidity, salts, pollutants, sulfur, outdoor applications, etc.) and to apply an additional environmental barrier, apply one of the DeoxIT® Greases. See Data Sheets DS-L260 and DS-M260 for additional information;

7. **NOTE:** To prevent overspray or spraying in unwanted areas, you can always spray onto a lint-free swab or cloth first and then using the swab/cloth apply the DeoxIT® to the connector/contact surface(s).

Other Applicators:

Part No.	% DeoxIT®	VOC (%)	Applicator	Size/Amount	Flammable/Nonflammable
S5S-6	5%	75%	spray	142 g	flammable
SN5MS-15	5%	75%	mini-spray	14 g	nonflammable
S100S-2	100%	0%	spray	57g	nonflammable
S100P	100%	0%	pen	6 mL	nonflammable
S100L-P6C	100%	0%	oiler pen	6 mL	nonflammable
S50W	100%	0%	wipes	50 count	nonflammable
S1W	100%	0%	wipes	individual	nonflammable
S100L-2C	100%	0%	tube	2 mL	nonflammable
S100L-2DB	100%	0%	brush bottle	7.4 mL	nonflammable
S100L-25C	100%	0%	needle dispenser	25 mL	nonflammable
S100L (bulk, many sizes)	100%	0%	bottle/drum	assort.	nonflammable
S5L-A (bulk, many sizes)	5%	75%	bottle/drum	assort.	flammable

Product Selection Guides:

DeoxIT® - Product Selection Guide

	DeoxIT®	DeoxIT® GOLD	DeoxIT® GOLD GxL	DeoxIT® GOLD Gx2	DeoxIT® SHIELD	DeoxIT® FaderLube
New Surfaces		✔	✔	✔	✔	✔
* In Service / Used	✔					✔
Gold surfaces		✔	✔	✔		
Oxidation / corrosion visible	✔					
Conductive plastics						✔
** Outdoor / Severe environments	✔					✔
Deoxidizing / cleaning properties	20%	0.1%	0.1%	0.0%	0.0%	0.0%
Metal / Plastic surfaces	Yes	Yes	Yes	Yes	Yes	
Plastics compatibility	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Temperature range (°C)	-34/200	-45/240	-45/310	-45/500	-34/210	-26/150
Stationary & moving surfaces	Yes	Yes	Yes	Yes	Yes	Yes
Seals & protects base metals	Good	Excellent	Excellent	Excellent	Good	No

✔ All products are Nonflammable and RoHs Compliant

* In Service: Clean with DeoxIT®. For added protection, follow with DeoxIT® GOLD (indoors), DeoxIT® SHIELD (outdoors) or DeoxIT® Grease (additional barrier).

** Severe environments: Pre-clean with DeoxIT®. Follow with DeoxIT® SHIELD or DeoxIT® Grease.

DeoxIT® - Spray Selection Guide

Product Series	FP	QD	NF	PC	VOC
Standard - 5% solution	✔			✔	75
D5S-6, D5MS-15, G5S-6, G5MS-15, S5S-6, S5MS-15, F5S-6, F5MS-15					
N Series - 5% solution		✔	✔	✔	20
DN5S-6N, DN5MS-15, GN5S-6N, GN5MS-15, SN5S-6, SN5MS-15					
X Series - 5% solution		✔	✔	✔	20
GX5S-6N					
100 Series - 100% solution			✔	✔	0
D100S-2, G100S-2, F100S-2					

FP = Flushing properties   QD = Quick dry / non drip   NF = Nonflammable

PC = Plastics compatibility   VOC = VOC (%)

Materials Compatibility (Plastics, Rubber, Elastomeric and Metals):

(**Rating:** Not compatible, Poor, Fair, Good, Excellent**), (N/A = Not applicable (no solvents and propellants)
(***** If the product is not 100% DeoxIT® then the package is rated before and after the solvents/propellants are applied to materials.
Compatibility testing is always recommended)

Material Name	Rating (*100% DeoxIT®)	Rating (*with solvents & propellants)
ABS	Excellent	Fair-Good
Nylon	Excellent	Excellent
Lexan	Excellent	Excellent
HDPE	Good	Good
LDPE	Good	Good
C.E.Phenolic	Excellent	Good
Epoxy	Excellent	Excellent
Polycarbonate	Excellent	Fair-Good
PMMA	Fair	Poor
POM	Excellent	Excellent
PP	Excellent	Good
PS	Fair	Fair
PTFE	Excellent	Excellent
PVC	Excellent	Excellent
TPE/Rubber/Varnish	Poor	Poor

IMPORTANT:

Rating, 100% DeoxIT®: Any of the above that fall into the "Fair" and "Poor" categories should be thoroughly tested for compatibility. They may be compatible, however, it will depend on the manufacturing process of the materials. Acrylics, ABS, and polycarbonate, if under stress, may show slight cracking or crazing damage. Test for compatibility before use. On porous materials; i.e. wood, rubber, cloth, some phenolics, semi-cured materials, no liquid or solvents should be used. Occasionally, DeoxIT® will get onto unwanted surfaces, quickly wipe off surface and usually no damage will occur.

Rating, with solvents and propellants: Similar to rating above (100% DeoxIT®). However, any rating worse than the 100% DeoxIT® may require additional care. If DeoxIT is applied to unwanted areas or materials, wipe off surface quickly and usually no damage will occur. Alternatively, apply DeoxIT® onto a lint-free swab or cloth first and then wipe onto desired metal surface.

DeoxIT® Essential Reference:

DeoxIT® D-Series - *Brings old systems back to life!*
DeoxIT® Gold G-Series - *Maintains new system performance!*
DeoxIT® Shield S-Series - *Maintains new system performance for severe environments!*
DeoxIT® Fader F-Series - *Clean, lubricate & protect conductive plastic and carbon compound faders!*

Shipping and Additional Information:

Hazardous:	ORMD	
VOC (%):	Part No. SN5S-6N,	75% (268 grams/liter)