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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier****Trade name** DeoxIT[®] D-Series (Part No. D100S-2)**1.2 Relevant identified uses of the substance or mixture and uses advised against**

No further relevant information available.

Application of the substance / the mixture: Cleaner, deoxidizer, protector for electrical contacts & connectors**1.3 Details of the supplier of the safety data sheet****Manufacturer/Supplier:****Distributor:**

Tube Amp Doctor Musikhandels GmbH

Weinbrennerstr. 1, D-67551 Worms

Tel.: +49 6247 / 90409-0

E-Mail: shop@tubeampdoctor.com

Manufacturer:

CAIG Laboratories, Inc.

12200 Thatcher Court, Poway, CA

92064-6876 USA

1.4 Emergency telephone number: CHEMTREC: +1(703)527-3887**SECTION 2: Hazards Identification****2.1 Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008**

Aerosol 3 H229 Pressurized container: May burst if heated.

2.2 Label elements**Labeling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

Hazard pictograms Void**Signal word** Warning**Hazard statements**

H229 Pressurized container: May burst if heated.

Precautionary statements

P102 Keep out of reach of children.

P251 Do not pierce or burn, even after use.

P264 Wash hands thoroughly after handling.

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P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Information pertaining to particular dangers for man and environment

Electric Shock Hazard: The container and applicator conduct electricity. Keep away from live parts.

2.3 Other hazards**Results of PBT and vPvB assessment**

PBT: Not applicable.

vPvB: Not applicable.

SECTION 3: Composition/information on ingredients**3.2 Chemical characterization: Mixtures**

Description: Mixture of the substances listed below with harmless additions.

Dangerous components:

CAS: 75-37-6	1,1-difluoroethane	50-100%
EINECS: 200-866-1	 Flam. Gas 1A, H220; Press. Gas (Liq.), H280	

Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures**4.1 Description of first aid measures****After inhalation**

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness bring patient into stable side position for transport.

After skin contact

On contact with skin clean with water and soap.

Contact with the liquid can cause frostbite.

If skin irritation continues, consult a doctor.

After eye contact

Immediately rinse out eye with open eyelids for at least 15 minutes. Consult doctor afterwards.

Remove any contact lenses.

Use eye protection.

After swallowing

Do not induce vomiting -danger of aspiration!

Rinse out mouth and then drink plenty of water.

Instantly call for doctor.

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4.2 Most important symptoms and effects, both acute and delayed

Sickness

Gastric or intestinal trouble

Product might have an irritating effect on skin and eyes. Allergic reactions

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents

CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

For safety reasons unsuitable extinguishing agents Water with a full water jet.

5.2 Special hazards arising from the substance or mixture

Can be released in case of fire.

Carbon monoxide (CO)

Hydrogen fluoride (HF)

5.3 Advice for firefighters

Protective equipment:

Fire fighters must wear self-contained breathing apparatus and full protective equipment.

Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

Cool endangered containers with water spray jet.

Remove containers out of danger zone, if possible without risk.

Do not breathe fire gases.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Use breathing protection against the effects of fumes/dust/aerosol.

Keep ignition sources away.

6.2 Environmental precautions:

Do not allow product to reach sewage system or water bodies.

Inform respective authorities in case product reaches water or sewage system.

6.3 Methods and material for containment and cleaning up:

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose of the material collected according to regulations.

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6.4 Reference to other sections

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

SECTION 7: Handling and storage

7.1 Precautions for safe handling.

Ensure good ventilation/exhaustion at the workplace.

Store in cool, dry place in tightly closed containers.

Information about protection against explosions and fires:

Beware: Container is pressurized. Keep away from direct sun exposure and temperatures over 50°C. Do not open by force or throw into fire even after use.

Do not spray on flames or red-hot objects.

7.2 Conditions for safe storage, including any incompatibilities

Storage Requirements to be met by storerooms and containers:

Store in cool location.

Observe official regulations on storing packagings with pressurized containers.

Information about storage in one common storage facility:

Store away from oxidizing agents.

Further information about storage conditions: Keep container tightly sealed.

Storage class 2 B

7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Additional information about design of technical systems: No further data; see item 7.

Components with critical values that require monitoring at the workplace:

Additional information: The lists that were valid during the compilation were used as basis.

8.2 Exposure controls

Personal protective equipment

General protective and hygienic measures

Wash hands during breaks and at the end of the work.

Do not eat, drink or smoke while working.

Do not inhale gases / fumes / aerosols.

Breathing equipment: Not necessary if room is well-ventilated.

Protection of hands: Not required.

Material of gloves Not relevant

Penetration time of glove material Not relevant.

Eye protection: Not required.

Body protection: Not required.

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Form:	Aerosol
Colour:	Light red
Smell:	Characteristic
Odor threshold:	Not determined.
pH-value:	Mixture is non-polar/aprotic. Neutral Not determined.

Change in condition

Melting point/freezing point:	Not determined
Initial boiling point and boiling range:	25 °C

Flash point**(DIN 51758; SETA CLOSED CUP):** <60 °C (DIN EN 456)**Inflammability (solid, gaseous)** Not applicable.**Decomposition temperature:** Not determined.**Self-inflammability:** Product is not self igniting.**Explosive properties:** Product is not explosive.**Critical values for explosion:**

Lower:	4.3 Vol %
Upper:	20.2 Vol %
Steam pressure at 20 °C:	5,100 hPa
Density (DIN 51757) at 20 °C:	0.884 g/cm ³
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not applicable.
Solubility in / Miscibility with Water:	Not miscible or difficult to mix
Partition coefficient: n-octanol/water:	Not determined.
Viscosity:	
dynamic:	Not determined.
kinematic:	Not determined.

9.2 Other information No further relevant information available.**SECTION 10: Stability and reactivity****10.1 Reactivity** No further relevant information available.**10.2 Chemical stability****Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions Develops readily flammable gases / fumes

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity Based on available data, the classification criteria are not met.**LD/LC50 values that are relevant for classification:****75-37-6 1,1-difluoroethane**

Inhalative	LC50/4 h	977 mg/l (mus)
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Primary irritant effect:**Skin corrosion/irritation** Based on available data, the classification criteria are not met.**Serious eye damage/irritation** Based on available data, the classification criteria are not met.**Respiratory or skin sensitization** Based on available data, the classification criteria are not met.**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)****Germ cell mutagenicity** Based on available data, the classification criteria are not met.**Carcinogenicity** Based on available data, the classification criteria are not met.**Reproductive toxicity** Based on available data, the classification criteria are not met.**STOT-single exposure** Based on available data, the classification criteria are not met.**STOT-repeated exposure** Based on available data, the classification criteria are not met.**Aspiration hazard** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity: No further relevant information available.**12.2 Persistence and degradability** No further relevant information available.**12.3 Bioaccumulative potential** No further relevant information available.**12.4 Mobility in soil** No further relevant information available.**Additional ecological information:****AOX-indication:** not relevant**According to recipe contains the following heavy metals and compounds according to EC guideline NO. 76/464 EC:** none**General notes:**

Water hazard class 1 (Self-assessment): slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

12.5 Results of PBT and vPvB assessment**PBT:** Not applicable.**vPvB:** Not applicable.**12.6 Other adverse effects** No further relevant information available.

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

14.1 UN-Number

ADR, IMDG, IATA UN1950

14.2 UN proper shipping name

ADR UN1950 AEROSOLS
IMDG, IATA AEROSOLS

14.3 Transport hazard class(es)

ADR



Class 2.5A Gases
Label 2.2

IMDG, IATA



Class 2
Label 2.2

14.4 Packing group

ADR, IMDG, IATA Void

14.5 Environmental hazards: Not applicable

14.6 Special precautions for user

Warning: Gases

Kemler Number:

-

EMS Number:

F-D,S-U

Stowage Code

SW1 Protected from sources of heat.
SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS:

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Segregation Code

Category C, Clear of living quarters.
SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow "separated from" class 1 except for division 1.4.
For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2.
For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable.

Transport/Additional information:

ADR

Limited quantities (LQ)

1L

Excepted quantities (EQ)

Code: E0

Not permitted as Excepted Quantity

Transport category

3

Tunnel restriction code

E

IMDG

Limited quantities (LQ)

1L

Excepted quantities (EQ)

Code: E0

Not permitted as Excepted Quantity

UN "Model Regulation":

UN 1950 AEROSOLS, 2.2

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed.

National regulations

Information about limitation of use: none

Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

International Listings 00-1

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases:

H220 Extremely flammable gas.

H280 Contains gas under pressure; may explode if heated.

Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning

the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

MAL-Code: Måleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Gas 1A: Flammable gases – Category 1A

Aerosol 3: Aerosols – Category 3

Press. Gas (Liq.): Gases under pressure – Liquefied gas

*** Data compared to the previous version altered.**