



Gotec Leak Detection Spray (LDS)

Material Safety Data Sheet (MSDS)

(according to Regulation (EC) No. 453/2010)

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Revision date:
12.07.2018

Revision: 1.3

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture
Product name : Gotec Leak Detection Spray (Gotec LDS 400ml)
Product code : Gotec LDS (Bar Code / EAN No. 4 013245 010273)
Type of product : Technical product
Vaporizer : Aerosol
Product group : Trade product

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Main use category : Consumer use
Industrial/Professional use : Industrial

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier

Gotec Trading Limited
Boulton Road
HERTS SG1 4QL Stevenage - United Kingdom
T +44 (0)1438 740 400 - F +44 (0)1438 740 005
enquiries@gotectrading.com

Importer

Gotec Trading Limited
Boulton Road
HERTS SG1 4QL Stevenage - United Kingdom
T +44 (0)1438 740 400 - F +44 (0)1438 740 005
enquiries@gotectrading.com

1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number
UK	Gotec Trading Limited	As above	+44 (0)1438 740 400

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Aerosol 3 H229

Full text of H-phrases: see section 16

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Signal word (CLP) : Warning
Hazard statements (CLP) : H229 - Pressurised container: May burst if heated.
Precautionary statements (CLP) : P102 Keep out of reach of children.
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
P251 - Do not pierce or burn, even after use
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.

EUH phrases : EUH208 - Contains reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7], and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1), reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7], and 2-methyl-4-isothiazolin-3-one [EC no. 220-239-6] (3:1)(CAS No.55965-84-9). May produce an allergic reaction.
(Biocide - not subject to Reach Registration)

2.3. Other hazards

No additional information available



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SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Directive 67/548/EEC
Nitrous oxide	(CAS No) 10024-97-2 (EC no) 233-032-0 (Reach No) 01-2119970538-25	1 - 5	O; R8
Dihydroxyethylcocoalkylamineoxide	(CAS No) 61791-47-7 (EC no) 263-180-1 (Reach Registration not required < 1t/a)	0.1 - 1	Xi; R41 Xi; R38

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Nitrous oxide	(CAS No) 10024-97-2 (EC no) 233-032-0 (Reach No) 01-2119970538-25	1 - 5	Ox. Gas 1, H270 Compressed gas, H280
Dihydroxyethylcocoalkylamineoxide	(CAS No) 61791-47-7 (EC no) 263-180-1 (Reach Registration not required < 1t/a)	0.1 - 1	Skin Corr. 1C, H314 Aquatic Acute 1, H400

Full text of R- and H-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
- First-aid measures after inhalation : Cough. Allow victim to breathe fresh air. Allow the victim to rest.
- First-aid measures after skin contact : Wash with plenty of soap and water. Get medical advice/attention.
- First-aid measures after eye contact : Rinse cautiously with water for several minutes. Direct contact with the eyes is likely to be irritating. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.
- First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/injuries after inhalation : Shortness of breath.
- Symptoms/injuries after skin contact : Causes skin irritation.
- Symptoms/injuries after eye contact : Causes serious eye irritation.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.
- Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

- Fire hazard : Not flammable. Not self-igniting.
- Explosion hazard : Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.
- Hazardous decomposition products in case of fire : Carbon dioxide. Carbon monoxide. Fumes.

5.3. Advice for firefighters

- Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment. DO NOT fight fire when fire reaches explosives. Evacuate area.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : No naked lights. No smoking. Isolate from fire, if possible, without unnecessary risk. Remove ignition sources. Use special care to avoid static electric charges.

6.1.1. For non-emergency personnel

- Emergency procedures : Evacuate unnecessary personnel.



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6.1.2. For emergency responders

Protective equipment : Equip clean-up crew with proper protection.
Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Do not pierce or burn, even after use.
Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Do not spray on an open flame or other ignition source.
Hygiene measures : Wash Wash immediately with plenty of soap and water thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Comply with applicable regulations.
Storage conditions : Keep container closed when not in use.
Do not expose to temperatures exceeding 50 °C/122 °F.
Incompatible materials : Sources of ignition. Direct sunlight. Heat sources.
Storage area : Store away from heat.

7.3. Specific end use(s)

Have the product container or label available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Personal protective equipment : Avoid all unnecessary exposure.
Hand protection : Wear protective gloves
Eye protection : Chemical goggles or safety glasses
Skin and body protection : Wear suitable protective clothing
Respiratory protection : Wear appropriate mask
Other information : Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Appearance : Colourless to pale yellow.
Colour : Colourless.
Odour : Faint characteristic.
Odour threshold : No data available
pH : 6 - 8
Relative evaporation rate (butylacetate=1) : No data available
Melting point : No data available
Freezing point : No data available (storage/use > 0 °C)
Boiling point : 100 °C
Flash point : > 100 °C
Auto-ignition temperature : No data available
Decomposition temperature : No data available
Flammability (solid, gas) : No data available
Vapour pressure : 8.000 hPa at 50 °C
Relative vapour density at 20 °C : No data available
Relative density : 0.99g/l
Solubility : Miscible with water.



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Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable under normal conditions. Contains gas under pressure; may explode if heated. Extreme risk of explosion by shock, friction, fire or other sources of ignition. Heat may build pressure, rupturing closed containers, spreading fire and increasing of burns and injuries.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Heat. Sparks. Open flame. Overheating.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

Fumes. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	: Not classified
Skin corrosion/irritation	: Not classified pH: 6 - 8
Serious eye damage/irritation	: Not classified pH: 6 - 8
Respiratory or skin sensitisation	: Not classified Based on available data, the classification criteria are not met
Germ cell mutagenicity	: Not classified Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified Based on available data, the classification criteria are not met
Reproductive toxicity	: Not classified Based on available data, the classification criteria are not met
Specific target organ toxicity (single exposure)	: Not classified Based on available data, the classification criteria are not met
Specific target organ toxicity (repeated exposure)	: Not classified Based on available data, the classification criteria are not met
Aspiration hazard	: Not classified Based on available data, the classification criteria are not met

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Vaporizer	Aerosol
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Potential adverse human health effects and symptoms : Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

No additional information available

12.2. Persistence and degradability

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Persistence and degradability	Not established.
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12.3. Bioaccumulative potential

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Bioaccumulative potential : Not established.

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

Additional information : Avoid release to the environment

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Container under pressure. Do not drill or burn even after use.

Additional information : Contains gas under pressure; may explode if heated.

Ecology - waste materials : Avoid release to the environment.

European List of Waste (LoW) code : 15 01 02 - plastic packaging
15 01 04 - metallic packaging
15 01 10 - packaging containing residues of or contaminated by dangerous substances

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / AND

Customs Tariff No.: 3402.19.000 "Organic Surface Preparation"

14.1. UN number

UN-No. (ADR) : 1950
UN-No. (IMDG) : 1950
UN-No. (IATA) : 1950
UN-No. (ADN) : 1950
UN-No. (RID) : 1950

14.2. UN proper shipping name

Proper Shipping Name (ADR) : AEROSOL
Proper Shipping Name (IMDG) : AEROSOL
Proper Shipping Name (IATA) : Aerosol, non-flammable
Proper Shipping Name (ADN) : AEROSOL
Proper Shipping Name (RID) : AEROSOL

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : 2.2

Danger labels (ADR) : 2.2



IMDG

Transport hazard class(es) (IMDG) : 2.2

Danger labels (IMDG) : 2.2



IATA

Transport hazard class(es) (IATA) : 2.2

Hazard labels (IATA) : 2.2





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ADN

Transport hazard class(es) (ADN) : 2.2
Danger labels (ADN) : 2.2



RID

Transport hazard class(es) (RID) : 2.2
Danger labels (RID) : 2.2



14.4. Packing group

Packing group (ADR) : Not applicable
Packing group (IMDG) : Not applicable
Packing group (IATA) : Not applicable
Packing group (ADN) : Not applicable
Packing group (RID) : Not applicable

14.5. Environmental hazards

Dangerous for the environment : No
Marine pollutant : No
Other information : No supplementary information available

14.6. Special precautions for user

14.6.1. Overland transport

Classification code (ADR) : 5A
Special provisions (ADR) : 190, 327, 344, 625
Limited quantities (ADR) : 1L
Excepted quantities (ADR) : E0
Packing instructions (ADR) : P207, LP02
Special packing provisions (ADR) : PP87, RR6, L2
Mixed packing provisions (ADR) : MP9
Transport category (ADR) : 3
Special provisions for carriage - Packages (ADR) : V14
Special provisions for carriage - Loading, unloading and handling (ADR) : CV9, CV12
Tunnel restriction code (ADR) : E

14.6.2. Transport by sea

Special provisions (IMDG) : 63, 190, 277, 327, 344, 959
Limited quantities (IMDG) : SP277
Excepted quantities (IMDG) : E0
Packing instructions (IMDG) : P207, LP02
Special packing provisions (IMDG) : PP87, L2
EmS-No. (Fire) : F-D
EmS-No. (Spillage) : S-U
Stowage category (IMDG) : None
MFAg-No : 126

14.6.3. Air transport

PCA Excepted quantities (IATA) : E0
PCA Limited quantities (IATA) : Y203
PCA limited quantity max net quantity (IATA) : 30kgG
PCA packing instructions (IATA) : 203
PCA max net quantity (IATA) : 75kg
CAO packing instructions (IATA) : 203



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CAO max net quantity (IATA) : 150kg
Special provisions (IATA) : A985, A14, A167
ERG code (IATA) : 2L

14.6.4. Inland waterway transport

Classification code (ADN) : 5A
Special provisions (ADN) : 19, 327, 344, 625
Limited quantities (ADN) : 1 L
Excepted quantities (ADN) : E0
Equipment required (ADN) : PP
Ventilation (ADN) : VE04
Number of blue cones/lights (ADN) : 0
Carriage prohibited (ADN) : No
Not subject to ADN : No

14.6.5. Rail transport

Classification code (RID) : 5A
Special provisions (RID) : 190, 327, 344, 625
Limited quantities (RID) : 1L
Excepted quantities (RID) : E0
Packing instructions (RID) : P207, LP02
Special packing provisions (RID) : PP87, RR6, L2
Mixed packing provisions (RID) : MP9
Transport category (RID) : 3
Special provisions for carriage – Packages (RID) : W14
Special provisions for carriage - Loading, unloading and handling (RID) : CW9, CW12
Colis express (express parcels) (RID) : CE2
Hazard identification number (RID) : 20
Carriage prohibited (RID) : No

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no substances with Annex XVII restrictions
Contains no REACH Annex XIV substances
Gotec LDS is not on the REACH Candidate List of SVHC
For applicable REACH Registration number(s) refer to Section 3.2
Contains <5% Nonionic Surfactants

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information : None.

Full text of R-, H- and EUH-phrases:

Aerosol 3	Aerosol, Category 3
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Compressed gas	Gases under pressure : Compressed gas
Ox. Gas 1	Oxidising Gases, Category 1
Skin Corr. 1C	Skin corrosion/irritation, Category 1C
H229	Pressurised container: May burst if heated.



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H270	May cause or intensify fire; oxidizer
H280	Contains gas under pressure; may explode if heated
H314	Causes severe skin burns and eye damage
H400	Very toxic to aquatic life
R38	Irritating to skin
R41	Risk of serious damage to eyes
R8	Contact with combustible material may cause fire
O	Oxidising
Xi	Irritant

Content and format of this Material Safety Data Sheet (MSDS) are in accordance with Regulation EC No.453/2010

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

The information provided in this Material Safety Data sheet is correct to the best of our knowledge at the date of its publication. The correctness of the information in printed or implied form is not guaranteed. The information given is designed only as a guidance for the safe handling, use, storage, transportation and disposal and is not to be considered a warranty or quality specification.

The conditions or methods of the handling, use, storage, transportation and disposal of the product lie outside of our control and we therefore expressly reject any liability for loss, damage or expenses, howsoever caused, which could develop from the handling, use, storage, transportation or disposal of the product.

The information relates only to the specific product designated and may not be valid when the product is used in combination with any other materials or process.

End of Safety Data Sheet.