



SAFETY DATA SHEET

in accordance with 29 CFR 1910.1200 and ANSI standard Z400.1-2010

Revision date: Jan/2/2017

Version: 4

Language: en-US

Date of print: Jan/10/2017

Leak-Detection-Spray

Material number 116530

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1. Product and company identification

Product identifier

Trade name: Leak-Detection-Spray

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

General use: Technical aerosol
Reserved for industrial and professional use.

Details of the supplier of the safety data sheet

Company name: WEICON Inc.
Street/POB-No.: 20 Steckle Place, Unit 20
Postal Code, city: Kitchener, Ontario N2E 2C3, CA
WWW: www.weicon.ca
E-mail: info@weicon.ca
Telephone: +1-519-896-5252
Telefax: +1-519-896-5254
Dept. responsible for information:
Product-Safety-Department
Telephone: +49(0)251 / 9322 - 0, Email: msds@weicon.de

Emergency phone number

EMERGENCY CONTACT – USA (24h): Tel: ++1 202 464 2554

Transport:

TRANSPORT EMERGENCY CONTACT - USA (24h): Tel: ++1 202 464 2554

2. Hazards identification

Emergency overview

Appearance: Physical state at 68 °F and 101.3 kPa: liquid
Form: Aerosol
Color: colorless
Odor: characteristic
Classification: Compressed Gas;
Hazard symbols:



Signal word: **Warning**
Hazard statements: Contains gas under pressure; may explode if heated.
Precautionary statements: Keep out of reach of children.
Protect from sunlight. Store in a well-ventilated place.

Regulatory status

This material is considered hazardous by the U.S. OSHA Hazard Communication Standard (29 CFR 1910.1200) and SIMDUT in Canada.

Hazards not otherwise classified

Higher doses may have a narcotic effect.
Exposure to temperatures exceeding 122 °F will increase pressure: resulting in danger of bursting or explosion.
Potentially explosive mixtures may form if adequate ventilation is not provided.
see section 11: Toxicological information



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3. Composition / Information on ingredients

Chemical characterization: Leakage search spray on the basis of tenside solution with Dinitrogen oxide-propellant.

Relevant ingredients:

CAS No.	Designation	Content	Classification
CAS 10024-97-2	Dinitrogen oxide	< 2 %	Oxidizing Gas - Category 1. Compressed Gas.
CAS 137-16-6	Sodium N- lauroylsarcosinate	< 0.3 %	Acute Toxicity - inhalative - Category 2. Skin Irritation - Category 2. Eye Damage - Category 1.

4. First aid measures

In case of inhalation: Provide fresh air. Do not leave affected persons alone. Seek medical treatment in case of troubles.

Following skin contact: After contact with skin, wash immediately with plenty of water. Consult a doctor if skin irritation persists.

After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. In case of troubles or persistent symptoms, consult an ophthalmologist.

After swallowing: Swallowing is not regarded as a possible way of exposition. Do not induce vomiting. Rinse mouth and drink large quantities of water. Seek medical aid in case of troubles.

Most important symptoms/effects, acute and delayed

No data available

Information to physician

Treat symptomatically.

5. Fire fighting measures

Flash point/flash point range:

not applicable

Auto-ignition temperature: not self-igniting

Suitable extinguishing media:

The product itself does not burn. Extinguishing is to be in accordance with the surrounding fire.

Specific hazards arising from the chemical

Heating will lead to pressure increase: Danger of bursting and explosion. Danger of formation of toxic pyrolysis products.

May form dangerous gases and vapours in case of fire.

Nitrogen oxides (NOx), carbon monoxide and carbon dioxide.

Protective equipment and precautions for firefighters:

Wear self-contained positive pressure breathing apparatus and full firefighting protective clothing.

Additional information:

In case of fire and/or explosion do not breathe fumes. Cool exposed containers with water spray.

Fire residuals and contaminated extinguishing water must be disposed of in accordance with the regulations of the local authorities.



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6. Accidental release measures

- Personal precautions: Provide adequate ventilation. Do not breathe gas/vapor/spray. Avoid contact with the substance.
Eliminate all ignition sources if safe to do so. Wear appropriate protective equipment.
Keep unprotected people away.
Do not open or incinerate, even when empty. Do not spray into flames or on incandescent objects.
- Environmental precautions: Do not allow to enter into ground-water, surface water or drains.
In case of release, notify competent authorities. Danger of explosion!
- Methods for clean-up: Soak up with absorbent materials such as sand, siliceous earth, acid- or universal binder. Store in special closed containers and dispose of according to ordinance.
- Additional information: Special danger of slipping by leaking/spilling product.

7. Handling and storage

Handling

- Advices on safe handling: Provide adequate ventilation, and local exhaust as needed.
Avoid contact with skin and eyes. Do not breathe gas/vapor/spray.
Wear appropriate protective equipment.
- Precautions against fire and explosion: Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use.

Storage

- Requirements for storerooms and containers: Keep only in the original container in a cool, well-ventilated place.
Protect against heat, sun rays and frost. Keep container tightly closed.
- Hints on joint storage: Keep away from food, drink and animal feedingstuffs.

8. Exposure controls / personal protection

Exposure guidelines

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
10024-97-2	Dinitrogen oxide	USA: ACGIH: TWA USA: NIOSH: TWA	90 mg/m ³ ; 50 ppm 46 mg/m ³ ; 25 ppm

Engineering controls

Provide good ventilation and/or an exhaust system in the work area.
See also information in chapter 7, section storage.

Personal protection equipment (PPE)

- Eye/face protection: Tightly sealed goggles according to OSHA Standard - 29 CFR: 1910.133 or ANSI Z87.1-2010.
- Skin protection: Wear suitable protective clothing.
Recommendation: Protective gloves according to OSHA Standard - 29 CFR: 1910.138.
Glove material: Nitrile rubber - Layer thickness: 0.4 mm
Breakthrough time: > 480 min.
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.



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Respiratory protection: Respiratory protection must be worn whenever the TLV (WEL) levels have been exceeded.
The filter class must be suitable for the maximum contaminant concentration (gas/vapor/aerosol/particulates) that may arise when handling the product.

General hygiene considerations:

Avoid contact with skin and eyes. Do not breathe gas/vapor/spray.
Take off immediately all contaminated clothing.
When using do not eat, drink or smoke. Wash hands before breaks and after work.
Safety shower and eye wash station should be easily accessible to the work area.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance:	Physical state at 68 °F and 101.3 kPa: liquid Form: Aerosol Color: colorless
Odor:	characteristic
Odor threshold:	not determined
pH value:	at 68 °F: approx. 7 %
Melting point/freezing point:	32 °F
Initial boiling point and boiling range:	212 °F
Flash point/flash point range:	not applicable
Evaporation rate:	No data available
Flammability:	No data available
Explosion limits:	LEL (Lower Explosion Limit): not determined UEL (Upper Explosive Limit): not determined
Vapor pressure:	at 68 °F: approx. 6000 hPa
Vapor density:	No data available
Density:	at 68 °F: approx. 1 g/mL
Water solubility:	miscible
Partition coefficient: n-octanol/water:	not determined
Auto-ignition temperature:	not self-igniting
Thermal decomposition:	No data available
Viscosity, dynamic:	not determined
Viscosity, kinematic:	not determined
Explosive properties:	Product is not explosive. Exposure to temperatures exceeding 122 °F will increase pressure: resulting in danger of bursting or explosion.
Solvent content:	0 %
Water content:	>= 98 %

10. Stability and reactivity

Reactivity:	Pressurised container: May burst if heated.
Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions	Exposure to temperatures exceeding 122 °F will increase pressure: resulting in danger of bursting or explosion.
Conditions to avoid:	Protect from direct exposure to sunlight and temperatures exceeding 122 °F.
Incompatible materials:	None known



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Hazardous decomposition products:

Danger of formation of toxic pyrolysis products.
May form dangerous gases and vapours in case of fire.
Nitrogen oxides (NOx), carbon monoxide and carbon dioxide.

Thermal decomposition: No data available

11. Toxicological information

Toxicological tests

Toxicological effects: The statements are derived from the properties of the single components. No toxicological data is available for the product as such.
Acute toxicity (oral): Lack of data.
Acute toxicity (dermal): Lack of data.
Acute toxicity (inhalative): Based on available data, the classification criteria are not met.
ATEmix (calculated): > 5 mg/L
Skin corrosion/irritation: Lack of data.
Eye damage/irritation: Lack of data.
Sensitisation to the respiratory tract: Lack of data.
Skin sensitisation: Lack of data.
Germ cell mutagenicity/Genotoxicity: Lack of data.
Carcinogenicity: Lack of data.
Reproductive toxicity: Lack of data.
Effects on or via lactation: Lack of data.
Specific target organ toxicity (single exposure): Lack of data.
Specific target organ toxicity (repeated exposure): Lack of data.
Aspiration hazard: Lack of data.

Other information: Hazardous properties cannot be excluded.

General remarks

Handle in accordance with good industrial hygiene and safety practice.

12. Ecological information

Ecotoxicity

Effects in sewage plants: Technically correct releases of minimal concentrations to adapted biological sewage treatment facility, will not disturb the biodegradability of activated sludge.

Further details: No data available

Mobility in soil

No data available

Persistence and degradability

Further details: No data available

Additional ecological information

AOX reference: The product contains organically bound halogen. Thus it may add to the AOX value.

Volatile organic compounds (VOC):
0 % by weight = 0 g/L

General information: Do not allow to enter into ground-water, surface water or drains.



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13. Disposal considerations

Product

Recommendation: Do not open with force or incinerate, even when empty.
Dispose of as hazardous waste. Dispose of waste according to applicable legislation.

Contaminated packaging

Recommendation: Dispose of waste according to applicable legislation. Non-contaminated packages may be recycled.
Empty carefully and completely, if possible.

14. Transport information

USA: Department of Transportation (DOT)

Identification number: UN1950
Proper shipping name: UN 1950, AEROSOLS
Hazard class or Division: 2.2
Labels: 2.2
Packaging – Exceptions: 306
Packaging – Non-bulk: None
Packaging – Bulk: None
Quantity limitations – Passenger aircraft / rail: 75 kg
Quantity limitations – Cargo only: 150 kg
Vessel stowage – Location: A
Vessel stowage – Other: 25, 87, 126



Sea transport (IMDG)

UN number: UN 1950
Proper shipping name: UN 1950, AEROSOLS
Class or division, Subsidiary risk: Class 2.2, Subrisk-
Packing Group: -
EmS: F-D, S-U
Special provisions: 63, 190, 277, 327, 344, 381, 959
Limited quantities: 1000 mL
Excepted quantities: E0
Contaminated packaging - Instructions: P207, LP200
Contaminated packaging - Provisions: PP87, L2
IBC - Instructions: -
IBC - Provisions: -
Tank instructions - IMO: -
Tank instructions - UN: -
Tank instructions - Provisions: -
Stowage and handling: SW1 SW22
Segregation: SG69
Properties and observations: -
Marine pollutant: no
Segregation group: none



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Air transport (IATA)

UN/ID number: UN 1950
 Proper shipping name: UN 1950, AEROSOLS, non-flammable
 Class or division, Subsidiary risk: Class 2.2
 Hazard label: Non-flamm. gas
 Excepted Quantity Code: E0
 Passenger and Cargo Aircraft: Ltd.Qty.: Pack.Instr. Y203 - Max. Net Qty/Pkg. 30 kg G
 Passenger and Cargo Aircraft: Pack.Instr. 203 - Max. Net Qty/Pkg. 75 kg
 Cargo Aircraft only: Pack.Instr. 203 - Max. Net Qty/Pkg. 150 kg
 Special provisions: A98 A145 A167 A802
 Emergency Response Guide-Code (ERG): 2L

15. Regulatory information

National regulations - U.S. Federal Regulations

Dinitrogen oxide: TSCA Inventory: listed; EPA flags P
 TSCA HPVC: not listed
 NIOSH Recommendations:
 Occupational Health Guideline: 0465

Sodium N-lauroylsarcosinate: TSCA Inventory: listed
 TSCA HPVC: not listed

National regulations - U.S. State Regulations

Dinitrogen oxide: California Proposition 65 code: femal reproductive, development; AB (NIOSH)
 Massachusetts CMR Substance code: not listed
 Pennsylvania Haz. Substance code: listed
 New Jersey Register: not listed
 California Proposition 65: developmental, female
 Rhode Island HSL: listed

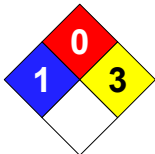
National regulations - Great Britain

Hazchem-Code: -

16. Other information

Text for labeling: Contains < 2 % Dinitrogen oxide, < 0.3 % Sodium N-lauroylsarcosinate. Safety data sheet available on request.

Hazard rating systems: NFPA Hazard Rating:
 Health: 1 (Slight)
 Fire: 0 (Minimal)
 Reactivity: 3 (Serious)



HMIS Version III Rating:
 Health: 1 (Slight)
 Flammability: 0 (Minimal)
 Physical Hazard: 3 (Serious)
 Personal Protection: X = Consult your supervisor

HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	3
	X

Reason of change: ADR/RID 2017, IMDG 2017

Date of first version: Nov/24/2015

Department issuing data sheet

Contact person: see section 1: Dept. responsible for information

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.