

Material Safety Data Sheet

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878 - Switzerland

Substance: Aerosol

Stand: 21.02.2025 Rev.-Nr. 6.1

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Trade name: 10620 / leak detection spray / 9881420
 UFI Code: FW1Y-26GW-V20S-3X47
 Product form: Mixture
 Product code: 772003
 Chemical family: Aerosol

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

1.2.1. Relevant identified uses

Main use category: Professional use, Industrial use
 Use of the substance/mixture: Soap detector air and gas leaks.

1.2.2. Uses advised against

No additional information available

1.3 Details of the supplier of the safety data sheet

REFCO Manufacturing Ltd.

Industriestrasse 11
 6285 Hitzkirch Switzerland
 Tel: +41 41 919 72 82
 Mail: info@refco.ch

1.4 Emergency telephone number

Schweizerisches Toxikologisches Informationszentrum Zurich
 Telephone number in urgent matters: 145 or +41 44 251 51 51
 Not urgent matters: +41 44 251 66 66

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 hazard classes, H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

Pressurised container: May burst if heated.

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
 P260 – Do not breathe spray
 P410+P412 – Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F

Extra phrases: Not to be used for any purpose other than the one the product was designed for.
 Seek medical attention if ill effect develops.
 For professional use only.

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2.3 Other hazards

Contains no PBT/vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII
The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable

3.2 Mixture

Substance name	Product identifier	%	Classification according to Regulation 1272/2008 [CLP]
Dinitrogen oxide	CAS-No.: 10024-97-2 EC-No.: 233-032-0 REACH-no: 01-2119970538-25	2 - 5	Ox. Gas 1, H270 Press. Gas (Liq.), H280 STOT SE 3, H336

Product subject to CLP Article 1.1.3.7. The disclosure rules of the components is modified in this case.
Full text of H- and EUH-statements: see section 16

4. FIRST AID MEASURES

4.1 Description of first aid measures

First-aid measures general

If you feel unwell, seek medical advice.

First-aid measures after inhalation :

Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact:

Wash with plenty of water. Seek medical attention if ill effect or irritation develops.

First-aid measures after eye contact:

Rinse eyes with water as a precaution.

First-aid measures after ingestion:

Call a poison center or a doctor if you feel unwell. Rinse mouth. Do NOT induce vomiting. Allow the victim to rest.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation :

Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard.

Symptoms/effects after skin contact:

None under normal conditions.

Symptoms/effects after eye contact:

None under normal conditions.

Symptoms/effects after ingestion:

None under normal conditions. Ingestion unlikely.

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4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Water spray. Dry powder. Foam. Carbon dioxide.

Unsuitable extinguishing media: Do not use a heavy water stream.

5.2 Special hazards arising from the substance or mixture

Fire hazard: No fire hazard.

Explosion hazard: Pressurised container: May burst if heated.

Reactivity in case of fire: Prevent fire-fighting water from entering environment.

Hazardous decomposition products in case of fire: Toxic fumes may be released.

5.3 Advice for fire-fighters

Firefighting instructions:

Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection. Exercise caution when fighting any chemical fire. During a fire, projections ignited aerosol that burst under excessive pressure have to be controlled. To avoid overpressure, cool aerosols with water. Prevent fire fighting water from entering the environment.

Protection during firefighting

Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

General measures:

Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage. Measures to take in the case of crushing or piercing aerosols, causing the leaking of products contained in aerosols. Ventilate area. Do not smoke. Remove ignition sources. Provide local exhaust or general room ventilation. Evacuate and limit access. Use special care to avoid static electric charges.

6.1.1. For non-emergency personnel

Protective equipment:

Wear recommended personal protective equipment. Provide adequate ventilation. Remove all sources of ignition. Avoid contact with skin and eyes. Do not inhale vapour.

Emergency procedures:

Do not touch spilled material. Evacuate area.

6.1.2. For emergency responders

Protective equipment

Do not attempt to take action without suitable protective equipment.

For further information refer to section 8: "Exposure controls/personal protection".

Emergency procedures

Evacuate unnecessary personnel. Stop leak if safe to do so. Provide adequate ventilation. Do not inhale vapour.

6.2 Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

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6.3 Methods and material for containment and cleaning up

For containment

Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible.

Methods for cleaning up:

Mechanically recover the product. Clean spills promptly. Collect the residue by means of a non-combustible absorbent material.

Other information

Dispose of materials or solid residues at an authorized site.

6.4 Reference to other sections

For further information refer to section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Additional hazards when processed:

Not expected to present a significant hazard under anticipated conditions of normal use.

Precautions for safe handling:

Ensure good ventilation of the work station. Wear personal protective equipment. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not pierce or burn, even after use. Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Not to be used for any purpose other than the one the product was designed for. Do not breathe gas, fumes, vapour or spray. During the handling of a pallet, you have to take all precaution to avoid a start of an accident perforation of the aerosol by a fork-lift truck. During the load and unloading of the vehicle, you have to take all the precaution to avoid a fall a aerosol. Do not spray the aerosol neither close nor towards a flame, a white-hot body, an electrical appliance in running, DO NOT SMOCKING. Container under pressure. Do not drill or burn even after use. Store and handle as though always a serious potential fire/explosion and health hazard exists.

Hygiene measures:

Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures:

Keep in a cool, well-ventilated place away from heat. Proper grounding procedures to avoid static electricity should be followed. Use grounded electrical/mechanical equipment.

Storage conditions:

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F. Protect from freezing. Recommendations applicable to warehouses and reserves which are stored aerosols. It is recommended to de-normalize aerosols in stock. The " aerosol " or area must be set with a wire mesh of mesh max 5cm, forming a cage or using walls to avoid splashing the aerosols may ignite rest of the stock. Do not smoke. To reduce the risk of falling, should position the pallet closest to the ground. If the packages are stacked, it should ensure that those lower layers do not crash (risk of leakage through compression). It is recommended :
- Ventilate the premises and not store any sprays near heat sources, including sunlight, sparks and open flames - To use the procedure of fire when working. Store in a dry, well ventilated place.

Packaging materials:

Store always product in container of same material as original container.

7.3 Specific end use(s)

No additional information available

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 National occupational exposure and biological limit values

No additional information available

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2 Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Wear recommended personal protective equipment.

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Safety glasses

8.2.2.2. Skin protection

Skin and body protection:

Skin protection appropriate to the conditions of use should be provided

Hand protection:

Protective gloves. Since the product consists of several substances, the durability of the glove material cannot be estimated and needs to be tested before use. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer

8.2.2.3. Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. Where exposure through inhalation may occur from use, respiratory protection equipment is recommended

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

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9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Colourless.
Odour	: characteristic.
Odour threshold	: Not available
Melting point	: Not available
Freezing point	: Not available
Boiling point	: Not available
Flammability	: Not available
Explosive properties	: Pressurised container: May burst if heated.
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: Not applicable
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: 7 (PA+/- 1)
pH solution concentration	: 100%
Viscosity, kinematic	: Not available
Solubility	: In water, material soluble.
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50 °C	: Not available
Density	: Not available
Relative density	: 1 (PA)
Relative vapour density at 20 °C	: Not available
Particle characteristics	: Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

% of flammable ingredients : 0%

9.2.2. Other safety characteristics

VOC content : 0 % (0 g/l)

10. STABILITY AND REACTIVITY

10.1 Reactivity

Pressurised container: May burst if heated.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4 Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition. Protect from freezing. Extremely high or low temperatures. Do not expose to temperatures exceeding 50 °C/ 122 °F.

10.5 Incompatible materials

Strong acids. Strong bases.

10.6 Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity (oral):

Not classified (Based on available data, the classification criteria are not met)

Acute toxicity (dermal):

Not classified (Based on available data, the classification criteria are not met)

Acute toxicity (inhalation):

Not classified (Based on available data, the classification criteria are not met)

Skin corrosion/irritation:

Not classified, pH: 7 (+/- 1)

Additional information:

Based on available data, the classification criteria are not met

Serious eye damage/irritation:

Not classified (Based on available data, the classification criteria are not met), pH: 7 (+/- 1)

Respiratory or skin sensitisation:

Not classified

Additional information:

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)

STOT-single exposure:

Not classified (Based on available data, the classification criteria are not met)

Additional information:

Based on available data, the classification criteria are not met

Dinitrogen oxide (10024-97-2)	
STOT-single exposure	May cause drowsiness or dizziness.

STOT-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)

DETECTEUR DE FUITE	
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11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

No additional information available

11.2.2. Other information

Potential adverse human health effects and symptoms:

Direct contact with the eyes is likely to be irritating, Contact during a long period may cause light irritation

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Ecology – general

The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Hazardous to the aquatic environment, short-term (acute)

Not classified (Based on available data, the classification criteria are not met)

Hazardous to the aquatic environment, long-term (chronic)

Not classified (Based on available data, the classification criteria are not met)

12.2 Persistence and degradability

DETECTEUR DE FUITES

Persistence and degradability

Rapidly degradable

Dinitrogen oxide (10024-97-2)

Persistence and degradability

Rapidly degradable

12.3 Bio accumulative potential

No additional information available

12.4 Mobility in soil

No additional information available

12.5 Results of PBT and vPvB assessment

No additional information available

12.6 Endocrine disrupting properties

No additional information available

12.7 Other adverse effects

Avoid release to the environment

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Regional waste regulation:

Waste treatment methods:

Sewage disposal recommendations:

Product/Packaging disposal

Recommendations:

Additional information:

Disposal must be done according to official regulations.

Dispose of contents/container in accordance with licensed collector's sorting instructions.

Disposal must be done according to official regulations.

Disposal must be done according to official regulations. Dispose in a safe manner in accordance with local/national regulations. Container under pressure. Do not drill or burn even after use.

Do not re-use empty containers.

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Ecological waste information:

Avoid release to the environment.

14. TRANSPORT INFORMATION

14.1 UN-Number

ADR	IMDG	IATA	ADN	RID
14.1. UN-Number or ID-Number				
UN 1950	UN 1950	UN 1950	UN 1950	UN 1950

14.2. UN proper shipping name

AEROSOLS	AEROSOLS	Aerosols, non-flammable	AEROSOLS	AEROSOLS
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Transport document description

UN 1950 AEROSOLS, 2.2, (E)	UN 1950 AEROSOLS, 2.2	UN 1950 Aerosols, non-flammable, 2.2	UN 1950 AEROSOLS, 2.2	UN 1950 AEROSOLS, 2.2
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14.3 Transport hazard class(es)

2.2	2.2	2.2	2.2	2.2
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ADR	IMDG	IATA	ADN	RID
				

14.4 Packing group

Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
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14.5 Environmental hazards

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

14.6 Special precautions for users

Overland transport:

Classification code (ADR):	5A
Special provisions (ADR):	190, 327, 344, 625
Limited quantities (ADR):	1I
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):	VI4
Special provisions for carriage - Loading, unloading and handling (ADR):	CV9, CV12
Tunnel restriction code (ADR):	E

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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
Stowage category (IMDG) :	None
Stowage and handling (IMDG) :	SW1, SW22
Segregation (IMDG) :	SG69

Air transport:

No data available

Inland waterway transport:

No data available

Rail transport:

No data available

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

Not applicable

15. REGULATORY INFORMATION

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

15.1.1. EU-Regulations

Other information, restriction and prohibition regulations:
Aerosol Generator Directive 75/324/EEC and its adaptations.

REACH Annex XVII (Restriction List)

EU restriction list (REACH Annex XVII)	
Reference code	Applicable on
3(a)	DETECTEUR DE FUITE

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

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VOC Directive (2004/42)

VOC content 0 % (0 g/l)

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

No additional information available

15.2 Chemical safety assessment

No chemical safety assessment has been carried out

16. OTHER INFORMATION

Indication of changes

Section	Changed item	Comments
1.1	UFI on SDS 1.1	Modified

Abbreviations and acronyms:

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration

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NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disruptor

Other information: Imp. DL4.

Full text of H- and EUH-statements:	
Aerosol 3	Aerosol, Category 3
Ox. Gas 1	Oxidising Gases, Category 1
Press. Gas (Liq.)	Gases under pressure : Liquefied gas
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis
H229	Pressurised container: May burst if heated.
H270	May cause or intensify fire; oxidiser.
H280	Contains gas under pressure; may explode if heated.
H336	May cause drowsiness or dizziness.

The classification complies with: ATP 12

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

End of the document