

## 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: 03.03.2022 Rev.-Nr. 5.0

### 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  
 Industrial/Professional use spec : Industrial. For professional use only

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 | Fax: +41 41 919 72 83  
 Mail: [info@refco.ch](mailto: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

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 – Pressurized container: 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  
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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	Value(s)	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 after inhalation :

Allow affected person to breathe fresh air. Allow the victim to rest. Obtain medical attention if breathing difficulty persists.

First-aid measures after skin contact:

Wash with plenty of water/....

First-aid measures after eye contact:

In case of eye contact, immediately rinse with clean water for 10-15 minutes. Obtain medical attention if pain, blinking or redness persists.

First-aid measures after ingestion:

Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Allow the victim to rest.

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

Symptoms/effects after inhalation :

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

Symptoms/effects after skin contact:

Contact during a long period may cause light irritation.

Symptoms/effects after eye contact:

Direct contact with the eyes is likely to be irritating.

Symptoms/effects after ingestion:

Ingestion unlikely.

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

Advice to physicians: Treat symptomatically.

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### 5. FIREFIGHTING MEASURES

#### 5.1 Extinguishing media

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

#### 5.2 Special hazards arising from the substance or mixture

Fire hazard: Not flammable.  
 Reactivity in case of fire: Prevent fire-fighting water from entering environment.

#### \* 5.3 Advice for fire-fighters

Precautionary measures fire: Do not enter fire area without proper protective equipment, including respiratory protection.  
 Firefighting instructions: Exercise caution when fighting any chemical fire. During a fire, projections ignited aerosol that burst under excessive pressure has to be controlled. To avoid overpressure, cool aerosols with water.

### 6. ACCIDENTAL RELEASE MEASURES

#### 6.1 Personal precautions, protective equipment and emergency procedures

General measures: Measures to take in the case of crushing or piercing aerosols, causing the leaking of products contained in aerosols. Remove ignition sources. Ventilate area. No smoking. Provide local exhaust or general room ventilation. Evacuate and limit access.

Emergency procedures: Do not touch spilled material. Evacuate area.

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.

#### 6.2 Environmental precautions

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

#### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up: Clean spills promptly. Collect the residue by means of a non-combustible absorbent material. Sand. Sawdust.

#### 6.4 Reference to other sections

See Heading 8. Exposure controls and personal protection.

### 7. HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

Precautions for safe handling: Good ventilation of the workplace required. 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.

Hygiene measures: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

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### 7.2 Conditions for safe storage, including any incompatibilities

Technical measures:

Keep at temperature not exceeding 50 °C. Proper grounding procedures to avoid static electricity should be followed. Use grounded electrical / mechanical equipment.

Storage conditions:

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. Protect from freezing.

### 7.3 Specific end use(s)

No data available.

## 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

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

#### 8.2.2. Personal protection equipment

Personal protective equipment symbol(s):

Hand protection:



None under normal conditions. In case of repeated or prolonged contact wear gloves.

#### 8.2.2.1. Eye and face protection

Eye protection:

Eye protection should only be necessary where liquid could be splashed or sprayed

#### 8.2.2.2. Skin protection

Skin and body protection:

Skin protection appropriate to the conditions of use should be provided

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### Hand protection:

None under normal conditions. In case of repeated or prolonged contact wear gloves. 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. Since the product represents a preparation composed of several substances, the resistance of the glove materials cannot be calculated in advance and must be checked before use. The exact breakthrough time of the glove material has to be determined by the manufacturer of the protective gloves and has to be observed.

### 8.2.2.3. Respiratory protection

Respiratory protection:

No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation

### 8.2.2.4. Thermal hazards

No additional information available

### 8.2.3. Environmental exposure controls

#### Other information:

Do not eat, drink or smoke during use. Provide local exhaust or general room ventilation.

## 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.
Explosive limits	:	Not available
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 (+/- 1)
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

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### 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

Non flammable. Pressurised container: May burst if heated.

### 10.2 Chemical stability

The product is stable at normal handling and storage conditions. Heating may cause an explosion.

### 10.3 Possibility of hazardous reactions

None under normal conditions.

### 10.4 Conditions to avoid

Heat. Open flame. Direct sunlight. Sparks. Protect from freezing. Avoid contact with hot surfaces. Remove all sources of ignition.

### 10.5 Incompatible materials

Aerosol cases in metal, do not bring into contact with oxidize, acids or basis.

### 10.6 Hazardous decomposition products

No additional information available

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

Acute toxicity (oral) : Not classified

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Not classified

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, 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

Additional information : Based on available data, the classification criteria are not met

Carcinogenicity : Not classified

Additional information : Based on available data, the classification criteria are not met

Reproductive toxicity : Not classified

Additional information : Based on available data, the classification criteria are not met

STOT-single exposure : Not classified

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Certified:  
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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

Additional information : Based on available data, the classification criteria are not met

Aspiration hazard : Not classified

Additional information : Based on available data, the classification criteria are not met

DETECTEUR DE FUITES	
Product identification	Aerosol

#### 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

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Not classified

### 12.2 Persistence and degradability

No additional information available

### 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



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### 13. DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods

Waste disposal recommendations:

Dispose used or damaged aerosol cans at permitted disposal sites. Dispose in a safe manner in accordance with local/national regulations. Container under pressure. Do not drill or burn even after use.

Ecology - waste materials:

Avoid release to the environment.

### \* 14. TRANSPORT INFORMATION

#### 14.1 UN-Number

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

UN 1950	UN 1950	UN 1950	UN 1950	UN 1950
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#### 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
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#### 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):	V14
Special provisions for carriage - Loading, unloading and handling (ADR):	CV9, CV12



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Tunnel restriction code (ADR):	E
<b>Transport by sea:</b>	
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	
Stowage and handling (IMDG) : SW1, SW22	
Segregation (IMDG) : SG69	
<b>Air transport:</b>	
No data available	
<b>Inland waterway transport:</b>	
No data available	
<b>Rail transport:</b>	
No data available	
<b>14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	
Not applicable	
<b>15. REGULATORY INFORMATIONS</b>	
<b>15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture</b>	
<b>15.1.1. EU-Regulations</b>	
Contains no REACH substances with Annex XVII restrictions	
Contains no substance on the REACH candidate list	
Contains no REACH Annex XIV substances	
Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.	
Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants	
Contains no substance subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.	
Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.	
VOC content : 0 % (0 g/l)	
Other information, restriction and prohibition regulations :Aerosol Generator Directive 75/324/EEC and its adaptations.	
Contains no substance subject to Regulation (EC) 273/2004 of the European Parliament and of the Council of 11 February 2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances..	
<b>15.1.2. National regulations</b>	
No additional information available	

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### 15.2 Chemical safety assessment

No chemical safety assessment has been carried out

### 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: Imp. DL4.

#### Full text of H- and EUH-statements:

Aerosol 3	Aerosol, Category 3
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.
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

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