

**Material Safety Data Sheet**  
According to CE 1907/2006/CE Regulation, attachment I

Substance: Aerosol

Stand: 26.05.2018 Rev.-Nr. 03

<b>1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING</b>	
<b>1.1 Product identifier</b>	
Trade name:	10620 / leak detection spray / 9881420
Product form:	Mixture
Product code:	700601
Chemical family:	Aerosol
<b>1.2 Relevant identified uses of the substance or mixture and uses advised against</b>	
Industrial/Professional use spec:	Industrial For professional use only
Use of the substance/mixture:	Soap detector air and gas leaks.
<b>1.3 Details of the supplier of the safety data sheet</b>	
REFCO Manufacturing Ltd. Industriestrasse 11   6285 Hitzkirch Switzerland	
Tel: +41 41 919 72 82   Fax: +41 41 919 72 83	
Mail: <a href="mailto:info@refco.ch">info@refco.ch</a>	
<b>1.4 Emergency telephone number</b>	
Schweizerisches Toxikologisches Informationszentrum Zurich	
Telephone number in urgent matters: 145 or +41 44 251 51 51	
Not urgent matters: +41 44 251 66 66	
<b>* 2. HAZARDS IDENTIFICATION</b>	
<b>2.1 Classification of the substance or mixture</b>	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	
Aerosol 3 H229	
Full text of H-phrases: see section 16	
<b>2.2 Label elements</b>	
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 For professional use only
Child-resistant fastening:	No
Tactile warning:	No
<b>2.3 Other hazards</b>	
No additional information available	

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<b>3. COMPOSITION/INFORMATION ON INGREDIENTS</b>			
<b>3.1 Substances</b> Not applicable			
<b>3.2 Mixture</b>			
Substance name	Value(s)	Product identifier	Classification according to Directive 67/548/EEC
Protoxyde d'azote	< 1-5 %	(CAS No) 10024-97-2 (EC no) 233-032-0	O; R8
Alkylbenzène sulfonate de sodium	< 0,1-1 %	(CAS No) 90194-45-9 (EC no) 290-656-6	Xn; R22 Xi; R41 Xi; R38
Alkylethersulphate de sodium	< 0,1-1 %	(CAS No) 68585-34-2 (EC no) Polymer (REACH-no) 01-2119488639-16	Xi; R41 Xi; R38
Substance name	Value(s)	CAS nr.	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Protoxyde d'azote	< 1-5 %	(CAS No) 10024-97-2 (EC no) 233-032-0	Ox. Gas 1, H270 Liquefied gas, H280
Alkylbenzène sulfonate de sodium	< 0,1-1 %	(CAS No) 90194-45-9 (EC no) 290-656-6	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318
Alkylethersulphate de sodium	< 0,1-1 %	(CAS No) 68585-34-2 (EC no) Polymer (REACH-no) 01-2119488639-16	Skin Irrit. 2, H315 Eye Dam. 1, H318
Full text of R- and H- phrases: see section 16			
<b>4. FIRST AID MEASURES</b>			
<b>4.1 Description of first aid measures</b>			
<u>Inhalation</u>			
Allow victim to breathe fresh air. Allow the victim to rest. Obtain medical attention if breathing difficulty persists.			
<u>Skin contact</u>			
Wash with plenty of soap and water.			
<u>Eye contact</u>			
In case of eye contact, immediately rinse with clean water for 10-15 minutes. Obtain medical attention if pain, blinking or redness persists.			
<u>Ingestion</u>			
Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Allow the victim to rest.			

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<b>4.2 Most important symptoms and effects, both acute and delayed</b>	
<u>Inhalation</u>	
Not expected to present a significant inhalation hazard under anticipated conditions of normal use.	
<u>Skin contact</u>	
Contact during a long period may cause slight irritation.	
<u>Eye contact</u>	
Direct contact with the eyes is likely to be irritating.	
<u>Ingestion</u>	
Ingestion unlikely.	
<b>4.3 Indication of any immediate medical attention and special treatment needed</b>	
Advice to physicians:	Treat symptomatically
<b>5. FIREFIGHTING MEASURES</b>	
<b>5.1 Extinguishing media</b>	
Suitable extinguishing media:	Water spray. Alcohol resistant foam. Dry powder. Carbon dioxide. Foam.
Unsuitable extinguishing media:	Do not use a heavy water stream.
<b>5.2 Special hazards arising from the substance or mixture</b>	
Fire hazard:	Not flammable.
Reactivity in case of fire:	Prevent fire-fighting water from entering environment.
<b>* 5.3 Advice for fire-fighters</b>	
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.
<b>6. ACCIDENTAL RELEASE MEASURES</b>	
<b>6.1 Personal precautions, protective equipment and emergency procedures</b>	
<b>General measures:</b>	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.
<b>Emergency procedures:</b>	Do not touch spilled material. Evacuate area.
<b>Protective equipment:</b>	Wear recommended personal protective equipment. Provide adequate ventilation. Remove all sources of ignition. Avoid contact with skin and eyes. Do not inhale vapour.
<b>6.2 Environmental precautions</b>	
Notify authorities if liquid enters sewers or public waters. Prevent entry to sewers and public waters.	
<b>6.3 Methods and material for containment and cleaning up</b>	
<b>Methods for cleaning up:</b>	Clean spills promptly. Collect the residue by means of a non-combustible absorbent material. Sand. Sawdust.

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<b>6.4 Reference to other sections</b>									
See Heading 8. Exposure controls and personal protection.									
<b>7. HANDLING AND STORAGE</b>									
<b>7.1 Precautions for safe handling</b>									
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.								
<b>7.2 Conditions for safe storage, including any incompatibilities</b>									
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.								
<b>7.3 Specific end use(s)</b>									
No data available.									
<b>8. EXPOSURE CONTROLS/PERSONAL PROTECTION</b>									
<b>8.1 Control parameters</b>									
<b>Ingredients with limit values at the workplace (only Switzerland):</b>									
<table border="1"> <thead> <tr> <th>Substance name</th> <th>CAS Nr.</th> <th>MAK</th> <th>TWA</th> </tr> </thead> <tbody> <tr> <td>Distickstoffmonoxid</td> <td>10024-97-2</td> <td>182 mg/m3 100 ml/m3</td> <td>364 mg/m3 200 ml/m3 (NIOSH)</td> </tr> </tbody> </table>		Substance name	CAS Nr.	MAK	TWA	Distickstoffmonoxid	10024-97-2	182 mg/m3 100 ml/m3	364 mg/m3 200 ml/m3 (NIOSH)
Substance name	CAS Nr.	MAK	TWA						
Distickstoffmonoxid	10024-97-2	182 mg/m3 100 ml/m3	364 mg/m3 200 ml/m3 (NIOSH)						
<b>8.2 Exposure controls</b>									
Hand protection:	 None under normal conditions. In case of repeated or prolonged contact wear gloves.								
Eye protection:	 Eye protection should only be necessary where liquid could be splashed or sprayed.								
Skin and body protection:	 Skin protection appropriate to the conditions of use should be provided.								
Respiratory protection:	 No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation.								
Other information:	Do not eat, drink or smoke during use. Provide local exhaust or general room ventilation.								

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<b>9. PHYSICAL AND CHEMICAL PROPERTIES</b>	
<b>9.1 Information on basic physical and chemical properties</b>	
Appearance	Liquid
Colour	Colourless.
Odour	Characteristic
Odour threshold	-
pH	-
Melting point /freezing point	-
Initial boiling point and boiling range	-
Flash point	-
Evaporation rate	-
Flammability (solid, gas)	-
Upper/lower flammability or explosive limits	-
Vapour pressure	-
Vapour density at 20°C	-
Density	1 (PA)
Solubility in water	Soluble
Partition coefficient: n-octanol/water (log POW)	-
Auto-ignition temperature	-
Decomposition temperature	-
Viscosity	-
Explosive properties	-
Oxidising properties	-
VOC content	0% (0 g/l)
<b>* 10. STABILITY AND REACTIVITY</b>	
<b>10.1 Reactivity</b> Non flammable. Pressurised container: May burst if heated.	
<b>10.2 Chemical stability</b> The product is stable at normal handling and storage conditions. Heating may cause an explosion.	
<b>10.3 Possibility of hazardous reactions</b> None under normal conditions.	
<b>10.4 Conditions to avoid</b> Heat. Open flame. Direct sunlight. Sparks. Protect from freezing. Avoid contact with hot surfaces. Remove all sources of ignition.	
<b>10.5 Incompatible materials</b> Aerosol cases in metal, do not bring into contact with oxidize, acids or basis.	
<b>10.6 Hazardous decomposition products</b> No additional information available	
<b>11. TOXICOLOGICAL INFORMATION</b>	
<b>11.1 Information on toxicological effects</b>	
Acute toxicity:	Not classified
Skin corrosion/irritation:	Not classified Based on available data, the classification criteria are not met
Serious eye damage/irritation:	Not classified
Respiratory or skin sensitisation:	Not classified Based on available data, the classification criteria are not met

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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
Potential adverse human health effects and symptoms:	Direct contact with the exes is likely to be irritating. Contact during a long period may cause slight irritation.
<b>12. ECOLOGICAL INFORMATION</b>	
<b>12.1 Toxicity</b> No additional information available	
<b>12.2 Persistence and degradability</b> No additional information available	
<b>12.3 Bio accumulative potential</b> No additional information available	
<b>12.4 Mobility in soil</b> No additional information available	
<b>12.5 Results of PBT and vPvB assessment</b> No additional information available	
<b>12.6 Other adverse effects</b> Avoid release to the environment	
<b>* 13. DISPOSAL CONSIDERATIONS</b>	
<b>13.1 Waste treatment methods</b> 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.	
<b>* 14. TRANSPORT INFORMATION</b>	
<b>14.1 UN-Number</b> In accordance with ADR / RID / IMDG / IATA / AND UN-No.: 1950	

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**14.2 UN proper shipping name:**

Proper Shipping Name (ADR):	AEROSOLS
Proper Shipping Name (IMDG):	AEROSOLS
Proper Shipping Name (IATA):	AEROSOLS, NON-FLAMMABLE, CONTAINING TOXIC GAS
Proper Shipping Name (ADN):	AEROSOLS
Proper Shipping Name (RID):	AEROSOLS

**14.3 Transport hazard class(es)**

Hazard Label(s)



Transport hazard class(es) (ADR):	2.2
Hazard labels (ADR):	2.2
Transport hazard class(es) (IMDG):	2.2
Danger labels (IMDG):	2.2
Transport hazard class(es) (IATA):	2.2
Hazard labels (IATA):	2.2
Transport hazard class(es) (ADN):	2.2
Danger labels (ADN):	2.2
Transport hazard class(es) (RID):	2.2
Danger labels (RID):	2.2

**14.4 Packing Group**

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 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
Tunnel restriction code (ADR):	E

Transport by sea:  
No data available

Air transport:  
No data available

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Inland waterway transport: No data available  Rail transport: 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> Contains no REACH substances with Annex XVII restrictions Contains no substance on the REACH candidate list Contains no REACH Annex XIV substances VOC content: 0 % (0 g/l) Other information, restriction and prohibition regulations: Aerosol Generator Directive 75/324/EEC and its adaptations.	
<b>15.2 Chemical safety assessment</b> No chemical safety assessment has been carried out	
<b>16. OTHER INFORMATION</b>	
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 R-, H- and EUH-phrases:	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aerosol 3	Aerosol, Category 3
Exe Dam. 1	Serious eye damage/eye irritation, Category 1
Liquefied gas	Gases under pressure : Liquefied gas
Ox. Gas 1	Oxidising Gases, Category 1
Skin Irrit. 2	Skin corrosion/irritation, Category 2
H229	Pressurised container: May burst if heated
H270	May cause or intensify fire; oxidizer
H280	Contains gas under pressure; may explode if heated
H302	Harmful if swallowed
H315	Causes skin irritation
H318	Causes serious eye damage
R22	Harmful if swallowed
R38	Irritating to skin
R41	Risk of serious damage to eyes
R8	Contact with combustible material may cause fire
O	Oxidising
Xi	Irritant
Xn	Harmful
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  * <b>Data compared to the previous version altered.</b> The asterisk (*) on the left side indicate the respective changes from the previous version.	

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