

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Product name	: Air Liquide fire/fume respiratory protective equipment
Product code	: 15-40F-11 or 15-40F-80
Product group	: Commercial product
Form of the product	: ITEM
Description	: This item is respiratory protective equipment in the form of a hood specifically intended for use in aviation.

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

Use of the substance/mixture : Aviation.

The Air Liquide hood 15-40F-80 is respiratory protective equipment specially designed for flight crews needing to use it in a contaminated area (smoke on board, smoke from outside during evacuation, cabin fire, cabin contaminated by toxic emanations, etc.).

This item is intended for use by trained personnel.

The information contained in this SDS does not replace the instructions or rules within the airlines applicable to their air crew.

Uses advised against

Restrictions on use : Any other use is not recommended.

1.3. Information about the supplier of the safety data sheet

Air Liquide advanced Technologies
2 rue de Clémencière
38 360 Sassenage - FRANCE
T +33 (0) 476 436 030 / +33 (0) 476 436 010
jerome.peudevin@airliquide.com

1.4. Emergency telephone number

Emergency number : The emergency telephone number in France is the ORFILA number (INRS): + 33 (0)1 45 42 59 59. This number provides contact information for all French Poison Control Centers. These poison control and toxicovigilance centers provide free medical assistance (excluding call costs), 24 hours a day and 7 days a week. For the emergency telephone number in your country, please contact the relevant local authorities and consult the ECHA (European Chemicals Agency) website: http://echa.europa.eu/help/nationalhelp_contact_en.asp

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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

THE CLASSIFICATION ACCORDING TO REGULATION (EC) NO 1272/2008 [CLP] DOES NOT APPLY BECAUSE THIS PRODUCT IS AN ITEM

The item contains two distinct components (not mixed):

Oxygen (<i>substance</i>) (delivered automatically when using the item)	Soda lime (<i>mixture</i>) (neutralizes CO ₂ exhaled when using the item)
Classification according to Regulation (EC) No 1272/2008:	Classification according to Regulation (EC) No 1272/2008:
Oxidizing gas, category 1 - H270 Pressurized gas: Compressed gas - H280	Corrosive/irritating to skin category 1, subcategory 1B - H314

2.2. Label elements

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

LABELING ACCORDING TO REGULATION (EC) NO 1272/2008 [CLP] DOES NOT APPLY BECAUSE THIS PRODUCT IS AN ITEM

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not Applicable

3.2. Mixtures

Not Applicable

THIS PRODUCT IS AN ITEM

The item contains **two** distinct **components** (not mixed):

Oxygen (<i>substance</i>) "A compressed oxygen tank" (39 L to 150 bar) (delivered automatically when using the item)				Soda lime (<i>mixture</i>) "Two soda lime cartridges" (240 g per hood) (neutralizes CO ₂ exhaled when using the item)			
Name	Identifier	%	Classification Regulation (EC) No 1272/2008 [CLP]	Name	Identifier	%	Classification Regulation (EC) No 1272/2008 [CLP]
Oxygen	(CAS no.): 7782-44-7 (CE no.): 231-956-9 (Index no.): 008-001-00-8	100	Ox. Gas 1, H270 Press. Gas, H280	Calcium hydroxide	(CAS no.): 1305-62-0 (CE no.): 215-137-3	> 75	Skin Irrit. 2 - H315 Eye Dam. 1 - H318 STOT SE 3, H335
				sodium hydroxide; caustic soda	(CAS no.): 1310-73-2 (CE no.): 215-185-5 (Index no.): 011-002-00-6	< 4	Skin Corr. 1A, H314 LCS: (0.5<C<2) Eye Irrit. 2, H319 (0.5<C<2) Skin Irrit. 2, H315 (2<C<5) Skin Corr. 1B, H314 (5<C<100) Skin Corr. 1A, H314

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Full text of H-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

- General first aid : In the event of fainting, consult a doctor (show them the *ATA100 equipment sheet if possible*).
In the event of fainting inside the aircraft: follow the procedure set out by the airline.
- First aid after inhalation : **For normal and reasonably foreseeable use, no hazard is expected. No first aid measure required.**

In the event of an accident involving deterioration of the item (if damage to the oxygen capacity and/or to the soda lime cartridges):
If the event occurs on the ground: Remove the defective hood. Remove the person to the outside and keep in a position comfortable for breathing. Call a doctor/poison control center in the event of fainting.
Using on aircraft: Go to an area of the cabin where there is no risk of fire/fumes if possible, remove the defective hood. Follow the procedure provided for by the airline.
- First aid after contact with skin : **For normal and reasonably foreseeable use, no hazard is expected. No first aid measure required.**

In the event of an accident involving deterioration of the item (if damage to the oxygen capacity and/or to the soda lime cartridges):
Remove impregnated clothing and thoroughly wash skin with soap and water or use a suitable cleaning product. Ensure no product remains between skin and clothing, watches, shoes, etc. When the contaminated area is extensive and/or if skin lesions appear, seek medical advice or transfer to the hospital.
- First aid after eye contact : **For normal and reasonably foreseeable use, no hazard is expected. No first aid measure required.**

In the event of an accident involving deterioration of the item (if damage to the oxygen capacity and/or to the soda lime cartridges):
Wash thoroughly with fresh and clean water for 15 minutes keeping the eyelids apart. Urgently refer the subject to an ophthalmologist (as soon as possible in case the event occurs in flight).
- First aid after ingestion : **For normal and reasonably foreseeable use, no hazard is expected. No first aid measure required.**

In the event of an accident involving deterioration of the item (if damage to the oxygen capacity and/or to the soda lime cartridges):
Unlikely route of exposure. But if swallowed, do not induce vomiting. Call a POISON CENTER/doctor.
Using on aircraft: follow the set procedure.

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

For normal and reasonably foreseeable use, NO HAZARD IS EXPECTED.

When the item is in use (installed in the aircraft):

Only personnel trained in the use of this equipment are authorized to use it.

In normal and reasonably foreseeable use, the release of oxygen observed is normal and necessary to allow the crew to breathe properly after the hood has been deployed.

In the event of an accident involving deterioration of the item (if damage to the oxygen capacity and/or to the soda lime cartridges), the information below is provided by the MANUFACTURERS of the components:

The item contains **two** distinct **components** (not mixed):

Oxygen (<i>substance</i>) (delivered automatically when using the item)	Soda lime (<i>mixture</i>) (neutralizes CO ₂ exhaled when using the item)
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- Continuous inhalation of concentrations above 75% may cause nausea, dizziness, difficulty breathing, and seizures.

- Skin or hair contact: Causes skin burns.
- Eye contact: Severe eye burns.

Remark: For normal use: no direct contact of the soda lime with the skin and/or eyes is expected.

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

No data available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Sprayed water or mist.

Unsuitable extinguishing media : Do not use water jet to extinguish.

5.2. Special hazards arising from the substance or mixture

Specific risks The item contains oxygen that maintains combustion.

Hazardous combustion products The item is complex. In case of fire different combustion products (from the various elements) may be released. Inhalation of combustion products is hazardous to health.

5.3. Advice for firefighters

Fire protection : Do not enter or remain in the hazardous area without chemical protective clothing and without self-contained breathing apparatus.

Cool exposed containers with water sprayed from a protected area. Do not allow the water used in emergency situations to drain into the gutters.

Use sprayed water or mist to keep fumes close to the ground if possible. Remove containers from the fire zone, if safe to do so.

Other information : Cool packages exposed to heat or flames with sprayed water. Avoid the release of fire flow into sewers. In confined spaces use self-contained breathing apparatus. Protective clothing and self-contained breathing equipment for firefighters. Standard EN 137 - Self-contained compressed air unit in open circuit with a full face mask. Standard EN 469: firefighter protective clothing. Standard EN 659: Firefighter protective gloves.

Using on aircraft: : In the event of fire, for commercial air crews, wearing hood 15-40F-80 respiratory protective equipment is mandatory.

Follow the procedure provided for by the airline.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For normal and reasonably foreseeable use, no hazard is expected.

The box containing the item should be picked up. Check that the item is in good condition before storage by:

The status indicator on the front of the box;

The green security latch on the front panel of the box.

In the event of an accident involving deterioration of the item (if damage to the oxygen capacity and/or to the soda lime cartridges):

Protective equipment : Personal protection: see section 8.

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The item contains **two** distinct **components** (not mixed):

Oxygen (<i>substance</i>) (delivered automatically when using the item)	Soda lime (<i>mixture</i>) (neutralizes CO ₂ exhaled when using the item)
<ul style="list-style-type: none">• Allow oxygen capacity to flow into a ventilated area if possible.• Remove sources of ignition.• Ensure appropriate ventilation of air, if possible.• Prevent the product from entering sewers, subsoils, ditches, or any other place where its accumulation may be dangerous.• Follow the local emergency plan.• Stay upstream of the wind.	<ul style="list-style-type: none">• Prevent entry into waste water or streams; if this occurs, inform the competent authorities.• Avoid inhaling dust.• Avoid contact with skin and eyes.• If large quantities are spilled, have personnel evacuated only by trained operators wearing protective equipment.

6.2. Environmental precautions

For normal and reasonably foreseeable use, no hazard is expected.

In the event of an accident involving deterioration of the item (if damage to the oxygen capacity and/or to the soda lime cartridges):

The item contains **two** distinct **components** (not mixed):

Oxygen (<i>substance</i>) (delivered automatically when using the item)	Soda lime (<i>mixture</i>) (neutralizes CO ₂ exhaled when using the item)
<ul style="list-style-type: none">• Allow oxygen capacity to flow into a ventilated area if possible.	<ul style="list-style-type: none">• Avoid discharge into natural waters, sewage or soil. Do not drain to surface water or sewers. Notify local authorities if significant leaks cannot be contained. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For normal and reasonably foreseeable use, no hazard is expected.

The box containing the item should be picked up. Check that the item is in good condition before storage by:

The status indicator on the front of the box;

The green security latch on the front panel of the box.

In the event of an accident involving deterioration of the item (if damage to the oxygen capacity and/or to the soda lime cartridges):

The item contains **two** distinct **components** (not mixed):

Oxygen (<i>substance</i>) (delivered automatically when using the item)	Soda lime (<i>mixture</i>) (neutralizes CO ₂ exhaled when using the item)
<ul style="list-style-type: none">• Ventilate the zone.	<ul style="list-style-type: none">• In the event of a spill, collect mechanically (for example by sweeping or aspiration) into hermetically sealed containers. Comply with personal protective measures. Rinse the remainder thoroughly with water. Label the container and dispose of the contents in the prescribed manner.

6.4. Reference to other sections

Information on handling, see section 7. Information on personal protective equipment, see section 8. Information on disposal, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

This item should only be handled by trained personnel. For normal and reasonably foreseeable use, no hazard is expected.

If the user encounters any difficulty when handling the item, they must contact the supplier.

Consult instructions for use prior to use.

Any unwrapped equipment must be returned to the supplier (even if not used).

Store in the original box, periodically check the security latch (to confirm it hasn't been opened) and the status indicator (set to green).

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7.2. Conditions for safe storage, including any incompatibilities

Must only be stored in the original packaging. Store indoors only, in a dry, cool, clean room.

Store containers in areas not exposed to fire and away from sources of heat and ignition.

Keep away from combustible materials.

Storage temperatures must be between -55 °C and +85 °C.

Keep away from heat, hot surfaces, sparks, naked flames and other ignition sources. Do not smoke.

For more details on the storage conditions to ensure quality: Consult the supplier.

Incompatible products: Must not be stored with chemicals.

The item contains **two** distinct **components** (not mixed):

Oxygen (<i>substance</i>) (delivered automatically when using the item)	Soda lime (<i>mixture</i>) (neutralizes CO ₂ exhaled when using the item)
Incompatible products: <ul style="list-style-type: none">• Oil and fat• May react violently with combustible materials.• May react violently with reducing agents.	Incompatible products: <ul style="list-style-type: none">• Chloroform, trichloroethylene

7.3. Specific end use(s)

Refer to the equipment user manual

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National Occupational and Biological Exposure Limit Values

The item contains two distinct components (not mixed):

Oxygen (<i>substance</i>) "A compressed oxygen gas cylinder" (delivered automatically when using the item)	Soda lime (<i>mixture</i>) "Two soda lime cartridges" (neutralizes CO ₂ exhaled when using the item)	
No additional information available	Calcium hydroxide (1305-62-0)	
	EU - Indicative Occupational Exposure Limit Value (IOELV)	
	Local Name	Calcium dihydroxide
	IOELV STEL	4 mg/m ³ (Respirable fraction)
	Regulatory reference	COMMISSION DIRECTIVE (EU) 2017/164
	France - Occupational Exposure Limit Values	
	Local Name	Calcium (dihydroxide)
	OEL TWA	1 mg/m ³ (alveolar fraction)
	OEL C/STEL	4 mg/m ³ (alveolar fraction)
	Note (EN)	Indicative regulatory values
	Regulatory reference	Circular from the French Ministry of Labor (ref. no.: Order of 27 September 2019)
	United Kingdom - Occupational Exposure Limits	
	Local Name	Calcium hydroxide
	WEL TWA (OEL TWA) [1]	5 mg/m ³ 1 mg/m ³ Respirable fraction
	WEL STEL (OEL STEL)	4 mg/m ³ Respirable fraction
	Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
	sodium hydroxide; caustic soda (1310-73-2)	
	France - Occupational Exposure Limit Values	
	Local Name	Sodium (hydroxide)
	OEL TWA	2 mg/m ³

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	Note (EN)	Recommended/acceptable values
	Regulatory reference	Circular from the French Ministry of Labor (ref. no.: INRS ED 984, 2016)
	United Kingdom - Occupational Exposure Limits	
	Local Name	Sodium hydroxide
	WEL STEL (OEL STEL)	2 mg/m ³
	Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Formed air contaminants

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:

This item should only be handled by trained personnel. For normal and reasonably foreseeable use, no hazard is expected.

The duration of use of the equipment is limited to 15 minutes from pallet tipping, see user manual.

The shelf-life of the equipment is 10 years from the date of manufacture indicated on its box.

8.2.2. Personal protective equipment

8.2.2.1. Eye and face protection

Eye protection:

For normal and reasonably foreseeable use, no hazard is expected. No protection required.

In the event of an accident involving deterioration of the item (if damage to the oxygen capacity and/or to the soda lime cartridges):
Goggles with side protection (compliant with EN 166).

8.2.2.2. Skin protection

Skin and body protection:

For normal and reasonably foreseeable use, no hazard is expected. No protection required.

In the event of an accident involving deterioration of the item (if damage to the oxygen capacity and/or to the soda lime cartridges):
Provide skin protection adapted to the conditions of use. Wear appropriate protective clothing.

Hand protection:

For normal and reasonably foreseeable use, no hazard is expected. No protection required.

In the event of an accident involving deterioration of the item (if damage to the oxygen capacity and/or to the soda lime cartridges): Due to the multitude of exposure conditions, the user must consider the actual duration of use of a chemical protection glove as much less than the breakthrough time. Strictly follow the manufacturer's instructions for use, especially the minimum thickness and minimum breakthrough time. This information shall not replace the compliance tests carried out by the end user. The protection provided by the glove depends on the conditions of use of the substance/mixture. Use chemical resistant gloves as a minimum (compliant with EN 374). The use of this product means that the type of material and the thickness of the gloves, as well as the time to rupture of the glove material can only be chosen after an in-depth study of the workstation, which must lead to a clear definition of the conditions of use and the most precise evaluation possible. The choice of gloves should therefore be made with the advice of the manufacturer of personal protective equipment.

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8.2.2.3. Respiratory protection

Respiratory protection:
For normal and reasonably foreseeable use, no hazard is expected. No protection required.
In the event of an accident involving deterioration of the item (if damage to the oxygen cylinder and/or to the soda lime cartridges): In case of insufficient ventilation, wear appropriate respiratory apparatus. The mask standard must be determined based on the risk assessment.

8.2.2.4. Protection against thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid discharge into natural waters, sewage or soil.

Consumer exposure controls:

This product is not intended for use by consumers.

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

THIS PRODUCT IS AN ITEM

Physical state : Solid

Appearance: :



The item contains **two** distinct **components** (not mixed):

Oxygen (<i>substance</i>) (delivered automatically when using the item)	Soda lime (<i>mixture</i>) (neutralizes CO ₂ exhaled when using the item)
<ul style="list-style-type: none">Physical state at 20 °C / 101.3kPa: GaseousColor: ColorlessOdor: Odorless. Not detectable by odor.Olfactory threshold: The odor detection of thresholds is subjective and inappropriate to alert in the event of overexposure.pH: Not applicable to gases and gas mixtures.Melting point / Freezing point: -219 °CBoiling point: -183 °CFlash point: Not applicable to gases and gas mixtures.Evaporation rate: Not applicable to gases and gas mixtures.Flammability (solid, gas): Non-flammable.Explosive limits: Non-flammable.Vapor pressure [20 °C]: Not Applicable.	<ul style="list-style-type: none">Physical state: SolidOdor: OdorlessBoiling point/range: Not determinedFlash point: Not ApplicableSolubility in water: LowEvaporation rate: Not ApplicableExplosive limits: Not ApplicableVapor density: Not ApplicableSelf-ignition temperature: Not ApplicableExplosive properties: Not determinedDecomposition temperature: Not determinedColor: White or coloredpH: 12 - 14Melting Point/Range: Not determined

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<ul style="list-style-type: none">• Vapor pressure [50 °C]: Not Applicable.• Vapor density: Not Applicable.• Relative density, liquid (water=1): 1.1• Relative density, gas (air=1): 1.1• Water solubility: 39 mg/l• N-octanol/water partition coefficient (Log Kow): Not applicable to non-organic products.• Self-ignition temperature: Non-flammable.• Decomposition temperature: Not Applicable.• Viscosity: No reliable data available.• Explosive properties: Not Applicable.• Oxidizing properties: Oxidizer.	<ul style="list-style-type: none">• Relative density: ~ 0.9 g/cm³• Odor threshold: Not Applicable• Flammability: Not Applicable• Vapor pressure: Not Applicable• Log P oct/water partition coefficient: Not Applicable• Viscosity: Not Applicable• Oxidizing properties: Not determined
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9.2. Other information

9.2.1. Information on physical hazard classes

No additional information available

9.2.2. Other safety features

Oxygen (<i>substance</i>) (delivered automatically when using the item)	Soda lime (<i>mixture</i>) (neutralizes CO ₂ exhaled when using the item)
<ul style="list-style-type: none">• Molecular mass: 32 g/mol• Critical temperature [°C]: -118 °C• Oxygen equivalence coefficient (Ci): 1• Other data: Gas or vapor heavier than air. Can accumulate in confined locations, especially in low spaces and basements.	<ul style="list-style-type: none">• No data.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity of substances, containers and contaminants to which the substance or mixture may be exposed during transport, storage and use: No data available.

The item contains **two** distinct **components** (not mixed):

Oxygen (<i>substance</i>) (delivered automatically when using the item)	Soda lime (<i>mixture</i>) (neutralizes CO ₂ exhaled when using the item)
<ul style="list-style-type: none">• No danger of reactivity other than the effects described in the sections below.	<ul style="list-style-type: none">• Heat generated in the event of exposure to acids.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

For normal and reasonably foreseeable use, no hazard is expected.

The item contains **two** distinct **components** (not mixed):

Oxygen (<i>substance</i>) (delivered automatically when using the item)	Soda lime (<i>mixture</i>) (neutralizes CO ₂ exhaled when using the item)
<ul style="list-style-type: none">• Violently oxidizes organic matter.	<ul style="list-style-type: none">• Hazardous polymerization will not occur.

10.4. Conditions to avoid

The item contains **two** distinct **components** (not mixed):

Oxygen (<i>substance</i>) (delivered automatically when using the item)	Soda lime (<i>mixture</i>) (neutralizes CO ₂ exhaled when using the item)
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<ul style="list-style-type: none">Avoid moisture	<ul style="list-style-type: none">Contact with air - calcium and sodium carbonate formation
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10.5. Incompatible materials

Must not be stored with chemicals. In general, strong oxidants, strong acids and strong bases are considered incompatible.

The item contains **two** distinct **components** (not mixed):

Oxygen (<i>substance</i>) (delivered automatically when using the item)	Soda lime (<i>mixture</i>) (neutralizes CO ₂ exhaled when using the item)
<ul style="list-style-type: none">Oil and fatMay react violently with combustible materials.May react violently with reducing agents.	<ul style="list-style-type: none">Chloroform, trichloroethylene

10.6. Hazardous decomposition products

Known hazardous decomposition products and products that can reasonably be expected from use, storage, discharge and heating: This product does not break down under normal conditions. Fire decomposition products: see section 5.2.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

THE CLASSIFICATION ACCORDING TO REGULATION (EC) NO 1272/2008 [CLP] DOES NOT APPLY BECAUSE THIS PRODUCT IS AN ITEM

The item contains **two** distinct **components** (not mixed):

Oxygen (<i>substance</i>) (delivered automatically when using the item)	Soda lime (<i>mixture</i>) (neutralizes CO ₂ exhaled when using the item)
<ul style="list-style-type: none">Acute (oral) toxicity: is not classified in this hazard category.	<ul style="list-style-type: none">Acute (oral) toxicity: is not classified in this hazard category.LD50 oral Rabbit: 500 mg/kg (sodium hydroxide data)LD50 oral Rat: > 7,000 mg/kg (calcium hydroxide data)
<ul style="list-style-type: none">Acute (cutaneous) toxicity: is not classified in this hazard category.	<ul style="list-style-type: none">Acute (cutaneous) toxicity: is not classified in this hazard category.
<ul style="list-style-type: none">Acute toxicity (Inhalation): is not classified in this hazard category.	<ul style="list-style-type: none">Acute toxicity (Inhalation): is not classified in this hazard category.
<ul style="list-style-type: none">Skin corrosion/irritation: is not classified in this hazard category.	<ul style="list-style-type: none">Skin corrosion/irritation: Causes skin burns.
<ul style="list-style-type: none">Serious eye damage/eye irritation: is not classified in this hazard category.	<ul style="list-style-type: none">Serious eye damage/eye irritation: Causes serious eye damage.
<ul style="list-style-type: none">Respiratory or skin sensitization: is not classified in this hazard category.	<ul style="list-style-type: none">Respiratory or skin sensitization: is not classified in this hazard category.
<ul style="list-style-type: none">Germ cell mutagenicity: is not classified in this hazard category.	<ul style="list-style-type: none">Germ cell mutagenicity: is not classified in this hazard category.
<ul style="list-style-type: none">Carcinogenicity: is not classified in this hazard category.	<ul style="list-style-type: none">Carcinogenicity: is not classified in this hazard category.
<ul style="list-style-type: none">Reproductive toxicity: is not classified in this hazard category.	<ul style="list-style-type: none">Reproductive toxicity: is not classified in this hazard category.
<ul style="list-style-type: none">Specific target organ toxicity (single exposure): is not classified in this hazard category.	<ul style="list-style-type: none">Specific target organ toxicity (single exposure): is not classified in this hazard category.
<ul style="list-style-type: none">Specific target organ toxicity (repeated exposure): is not classified in this hazard category.	<ul style="list-style-type: none">Specific target organ toxicity (repeated exposure): is not classified in this hazard category.
<ul style="list-style-type: none">Aspiration hazard: is not classified in this hazard category.	<ul style="list-style-type: none">Aspiration hazard: is not classified in this hazard category.

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11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties : No data available

11.2.2 other information

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Short-term (acute) hazards to the aquatic environment : Non-classified

Long-term (chronic) hazards to the aquatic environment : Non-classified

The item contains **two** distinct **components** (not mixed):

Oxygen (<i>substance</i>) (delivered automatically when using the item)	Soda lime (<i>mixture</i>) (neutralizes CO ₂ exhaled when using the item)
<ul style="list-style-type: none">This product is safe for the environment.	<ul style="list-style-type: none">No data available.

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

The item contains **two** distinct **components** (not mixed):

Oxygen (<i>substance</i>) (delivered automatically when using the item)	Soda lime (<i>mixture</i>) (neutralizes CO ₂ exhaled when using the item)
<ul style="list-style-type: none">Due to its high volatility, soil or water pollution is unlikely.Penetration into the soil is not likely.This product is safe for the environment.	<ul style="list-style-type: none">No data available.

12.5. Results of PBT and vPvB assessments

The item contains **two** distinct **components** (not mixed):

Oxygen (<i>substance</i>) (delivered automatically when using the item)	Soda lime (<i>mixture</i>) (neutralizes CO ₂ exhaled when using the item)
<ul style="list-style-type: none">Not classified as PBT or vPvB.	<ul style="list-style-type: none">Not Applicable.

12.6. Endocrine disrupting properties

No additional information available.

12.7. Other adverse effects

No additional information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) : Disposal to be made in accordance with legal requirements.

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Waste treatment methods	: Contact the supplier for destruction in accordance with the local/national safety regulations in force.
Recommendations for management of the product/packaging	: Dispose of in accordance with local/national safety regulations in force.
Additional information	: It is recommended to avoid or minimize waste production as much as possible. Disposal of this product, solutions and by-products shall at all times comply with the legal requirements for environmental protection and disposal of waste and the requirements of all local authorities. Disposal of surplus and non-recyclable products by an authorized waste collection company. Do not dispose of untreated waste into sewers. Do not dispose of this product and its container unless every precaution is taken. Handle empty containers that are not cleaned or rinsed with care. Empty containers or inner linings may retain product remains. Avoid dispersing spilled materials, as well as their flow and contact with soil, streams, sewers and drains.
Ecology - waste	: Do not release into the environment.

SECTION 14: Transport information

In compliance with: ADR / IMDG / IATA / ADN / RID

14.1. UN number or identification number

UN no. (ADR)	: UN 3072
UN no. (IMDG)	: UN 3072
UN no. (IATA)	: UN 3072
UN no. (ADN)	: UN 3072
UN no. (RID)	: UN 3072

14.2. UN proper shipping name

Proper shipping name (ADR)	: LIFE-SAVING APPLIANCES, NOT SELF-INFLATING
Proper shipping name (IMDG)	: LIFE-SAVING APPLIANCES, NOT SELF-INFLATING
Proper shipping name (IATA)	: LIFE-SAVING APPLIANCES, NOT SELF-INFLATING
Proper shipping name (ADN)	: LIFE-SAVING APPLIANCES, NOT SELF-INFLATING
Proper shipping name (RID)	: LIFE-SAVING APPLIANCES, NOT SELF-INFLATING
Transport document description (ADR)	: UN 3072 LIFE-SAVING APPLIANCES, NOT SELF-INFLATING, 9, (E)
Transport document description (IMDG)	: UN 3072 LIFE-SAVING APPLIANCES, NOT SELF-INFLATING, 9
Transport document description (IATA)	: UN 3072 LIFE-SAVING APPLIANCES, NOT SELF-INFLATING, 9
Transport document description (ADN)	: UN 3072 LIFE-SAVING APPLIANCES, NOT SELF-INFLATING, 9
Transport document description (RID)	: UN 3072 LIFE-SAVING APPLIANCES, NOT SELF-INFLATING, 9

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR)	: 9
Hazard labels (ADR)	: 9

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IMDG

Transport hazard class(es) (IMDG) : 9

Hazard labels (IMDG) : 9



IATA

Transport hazard class(es) (IATA) : 9

Hazard labels (IATA) : 9



ADN

Transport hazard class(es) (ADN) : 9

Hazard labels (ADN) : 9



RID

Transport hazard class(es) (RID) : 9

Hazard labels (RID) : 9



14.4. Packing group

Packing group (ADR) : Not Applicable

Packing group (IMDG) : Not Applicable

Packing Group (IATA) : Not Applicable

Packing group (ADN) : Not Applicable

Packaging Group (RID) : Not Applicable

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14.5. Environmental hazards

Environmentally hazardous : No
Marine pollutant : No
Other information : No additional information available

14.6. Special precautions for user

Land transport

Special provisions (ADR) : 296
Classification code (ADR) : M5
Tunnel restriction code (ADR) : E
Transport category : Cat 3

Maritime transport

Special provisions (IMDG) : 296
FS no. (Fire) : F-A
FS no. (Discharge) : S-V
Separation rules : SG18, SG71

Air transport

Special provisions (IATA) : A48

Waterway transport

Classification code (ADN) : M5
Special provisions (ADN) : 296

Rail transport

Classification code (RID) : M5
Special provisions (RID) : 296

14.7. Maritime transport in bulk in accordance with IMO instruments

Not Applicable

SECTION 15: Regulatory Information

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

15.1.1. EU regulations

- Does not contain any substances from the REACH candidate list

15.1.2. National guidelines

- Comply with the various national measures.

15.2. Chemical safety assessment

Oxygen (<i>substance</i>) (delivered automatically when using the item)	Soda lime (<i>mixture</i>) (neutralizes CO exhaled when using the item)
<ul style="list-style-type: none">• A chemical risk assessment (SCA) does not need to be made for this product.	<ul style="list-style-type: none">• No data available.

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SECTION 16: Other information

Overhauls

As a result of changes, it is appropriate to consider that the entire SDS has been amended.

Full text of H- and EUH:

Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Corr. 1A	Corrosive/irritating to skin category 1, subcategory 1A
Skin Corr. 1B	Corrosive/irritating to skin category 1, subcategory 1B
Skin Irrit. 2	Corrosive/irritating to skin category 2
STOT SE 3	Specific target organ toxicity - Single exposure, Category 3, Respiratory irritation
Ox. Gas 1	Oxidizing gases, Category 1
Press. Gas	Pressurized gas
H270	May cause or intensify fire; oxidizer.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

Abbreviations and Acronyms:

vPvB	Very persistent and very bioaccumulative
TLm	Median tolerance limit
STP	Sewage treatment plant
RID	Regulation concerning the International Carriage of Dangerous Goods by Rail
REACH	Registration, evaluation, authorization and restriction of chemicals. REACH Regulation (EU) No 1907/2006
PNEC	Predicted No Effect Concentration(s)
PBT	Persistent, bioaccumulative and toxic
OECD	Organisation for Economic Co-operation and Development
NOEC	No Observed Effect Concentration
NOAEL	No-Observed-Adverse-Effect Level
NOAEC	No-Observed Adverse Effect Concentration
LOAEL	Lowest Observed Adverse Effect Level
LD50	Median lethal dose per 50% of the population tested (median lethal dose)
IMDG	International Maritime Dangerous Goods Code
IATA	International Air Transport Association
SDS	Safety Data Sheet
CE50	Effective median concentration
DSD	Dangerous substances directive 67/548/EEC
DPD	Directive 1999/45/EC on dangerous preparations

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DNEL	Derived No Effect Level
DMEL	Derived Minimum Effect Level
CLP	Regulation on classification, labeling and packaging; Regulation (EC) No 1272/2008
CL50	Lethal concentration for 50% of the population tested (median lethal concentration)
IARC	International Agency for Research on Cancer
BCF	Bioconcentration factor
ATE	Acute Toxicity Estimate
ADR	European agreement concerning the international carriage of dangerous goods by road
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

This information is based on our current knowledge and describes the product for the sole needs of health, safety and the environment. It should therefore not be interpreted as guaranteeing any specific property of the product.