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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name

: 1000 bubbles

SDS no

: NOAL_1000

UFI: 2VR2-G049-K00X-3CH9

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

Relevant identified uses

: Industrial and professional uses. Perform risk assessment prior to use.

Contact supplier for more information on uses.

Uses advised against

: Consumer use.

1.3. Details of the supplier of the safety data sheet

Company identification

Supplier

AIR LIQUIDE GAS AB

Pulpetgatan 20

215 37 Malmö - SWEDEN

T +46 40 38 10 00

info.sweden@airliquide.com

E-Mail address (competent person)

: eunordic-sds@airliquide.com

1.4. Emergency telephone number

Emergency telephone number

: 112

Availability

(24 / 7)

Country	Organisation/Company	Address	Emergency number	Comment
Germany	Giftnotruf Erfurt Gemeinsames Giftinformationszentrum der Länder Mecklenburg-Vorpommern, Sachsen, Sachsen-Anhalt und Thüringen, c/o HELIOS Klinikum Erfurt	Nordhäuser Straße 74 99089 Erfurt	+49 (0) 361 730 730	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Physical hazards

Aerosol, Category 3

H229


Oxidising Gases, Category 1

H270

Health hazards

Serious eye damage/eye irritation, Category 2

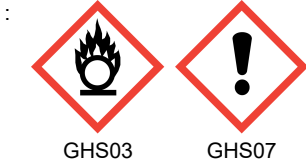
H319

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2.2. Label elements

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

Hazard pictograms (CLP)



Signal word (CLP)

Hazard statements (CLP)

Precautionary statements (CLP)

- Prevention

- Response

- Storage

- : Danger
- : H270 - May cause or intensify fire; oxidiser.
H319 - Causes serious eye irritation.
H229 - Pressurised container: May burst if heated.
- : P244 - Keep valves and fittings free from oil and grease.
P280 - Wear protective gloves, protective clothing, eye protection, face protection.
P264 - Wash hands, forearms and face thoroughly after handling.
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.
P220 - Keep away from clothing and other combustible materials.
- : P337+P313 - If eye irritation persists: Get medical advice/attention.
P370+P376 - In case of fire: Stop leak if safe to do so.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- : P403 - Store in a well-ventilated place.
P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

2.3. Other hazards

None.


SECTION 3: Composition/information on ingredients

3.1. Substances

Not established.

3.2. Mixtures

Name	Product identifier	Composition [V-%]:	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Water	CAS-No.: 7732-18-5 EC-No.: 231-791-2 EC Index-No.: ---	95	Not classified
Nitrous oxide	CAS-No.: 10024-97-2 EC-No.: 233-032-0 EC Index-No.: --- REACH-no: 01-2119970538-25	2.5	Ox. Gas 1, H270 Press. Gas (Liq.), H280 STOT SE 3, H336
Sodium benzoate	CAS-No.: 532-32-1 EC-No.: 208-534-8 EC Index-No.: --- REACH-no: 01-2119460683-35	1	Eye Irrit. 2, H319

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Sulfuric acid, mono-C12-16-alkyl esters, sodium salts	CAS-No.: 73296-89-6 EC-No.: 277-362-3 EC Index-No.: --- REACH-no: 01-2119489464-26	1	Flam. Sol. 1, H228 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Chronic 3, H412	
Tetrasodium (1-hydroxyethylidene)bisphosphonate	CAS-No.: 3794-83-0 EC-No.: 223-267-7 EC Index-No.: --- REACH-no: 01-2119510382-52	0.5	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319	

Full text of H- and EUH-statements: see section 16
Contains no other components or impurities which will influence the classification of the product.

SECTION 4: First aid measures

4.1. Description of first aid measures

- | | |
|----------------|-------------------------------------------------------------------------|
| - Inhalation | : Adverse effects not expected from this product. |
| - Skin contact | : Adverse effects not expected from this product. |
| - Eye contact | : Immediately flush eyes thoroughly with water for at least 15 minutes. |
| - Ingestion | : Ingestion is not considered a potential route of exposure. |

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

May cause irritation to cornea (with temporary disturbance to vision).
See section 11.

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

Obtain medical assistance.

SECTION 5: Firefighting measures

5.1. Extinguishing media


- | | |
|----------------------------------|---------------------------------------|
| - Suitable extinguishing media | : Water spray or fog. |
| - Unsuitable extinguishing media | : Do not use water jet to extinguish. |

5.2. Special hazards arising from the substance or mixture

- | | |
|-------------------------------|-------------------------------------------------------------|
| Specific hazards | : Exposure to fire may cause containers to rupture/explode. |
| Hazardous combustion products | : Nitric oxide/nitrogen dioxide. |

5.3. Advice for firefighters

- | | |
|------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Specific methods | : Use fire control measures appropriate for the surrounding fire. Exposure to fire and heat radiation may cause gas receptacles to rupture. Cool endangered receptacles with water spray jet from a protected position. Prevent water used in emergency cases from entering sewers and drainage systems.
If possible, stop flow of product.
Use water spray or fog to knock down fire fumes if possible.
Move containers away from the fire area if this can be done without risk. |
| Special protective equipment for fire fighters | : Wear gas tight chemically protective clothing in combination with self contained breathing apparatus.
Standard EN 943-2: Protective clothing against liquid and gaseous chemicals, aerosols and solid particles. Gas-tight chemical protective suits for emergency teams.
Standard EN 137 - Self-contained open-circuit compressed air breathing apparatus with full face mask. |

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- Evacuate area.
- Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe.
- Ensure adequate air ventilation.
- Act in accordance with local emergency plan.
- Stay upwind.

6.2. Environmental precautions

- Reduce vapour with fog or fine water spray.

6.3. Methods and material for containment and cleaning up

- Ventilate area.


6.4. Reference to other sections

- See also sections 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Safe use of the product
- : Do not breathe gas.
 - Avoid release of product into atmosphere.
 - The product must be handled in accordance with good industrial hygiene and safety procedures.
 - Only experienced and properly instructed persons should handle gases under pressure.
 - Consider pressure relief device(s) in gas installations.
 - Ensure the complete gas system was (or is regularly) checked for leaks before use.
 - Do not smoke while handling product.
 - Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt.
 - Avoid suck back of water, acid and alkalis.
- Safe handling of the gas receptacle
- : Refer to supplier's container handling instructions.
 - Do not allow backfeed into the container.
 - Protect containers from physical damage; do not drag, roll, slide or drop.
 - When moving cylinders, even for short distances, use a cart (trolley, hand truck, etc.) designed to transport cylinders.
 - Leave valve protection caps in place until the container has been secured against either a wall or bench or placed in a container stand and is ready for use.
 - If user experiences any difficulty operating valve discontinue use and contact supplier.
 - Never attempt to repair or modify container valves or safety relief devices.
 - Damaged valves should be reported immediately to the supplier.
 - Keep container valve outlets clean and free from contaminants particularly oil and water.
 - Replace valve outlet caps or plugs and container caps where supplied as soon as container is disconnected from equipment.
 - Close container valve after each use and when empty, even if still connected to equipment.
 - Never attempt to transfer gases from one cylinder/container to another.
 - Never use direct flame or electrical heating devices to raise the pressure of a container.
 - Do not remove or deface labels provided by the supplier for the identification of the content of the container.
 - Suck back of water into the container must be prevented.
 - Open valve slowly to avoid pressure shock.

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7.2. Conditions for safe storage, including any incompatibilities

Observe all regulations and local requirements regarding storage of containers.
Containers should not be stored in conditions likely to encourage corrosion.
Container valve guards or caps should be in place.
Containers should be stored in the vertical position and properly secured to prevent them from falling over.
Stored containers should be periodically checked for general condition and leakage.
Keep container below 50°C in a well ventilated place.
Store containers in location free from fire risk and away from sources of heat and ignition.
Keep away from combustible materials.


7.3. Specific end use(s)


None.

SECTION 8: Exposure controls/personal protection


8.1. Control parameters

Nitrous oxide (10024-97-2)	
Austria - Occupational Exposure Limits	
Local name	Distickstoffmonoxid
MAK (mg/m³)	180 mg/m³
MAK (OEL TWA) [ppm]	100 ppm
MAK (OEL STEL)	720 mg/m³
MAK (OEL STEL) [ppm]	400 ppm
Belgium - Occupational Exposure Limits	
Local name	Diazote (oxyde de) # Diazote (oxyde de)
OEL TWA	91 mg/m³
OEL TWA [ppm]	50 ppm
Croatia - Occupational Exposure Limits	
Local name	Didušikov oksid
GVI (OEL TWA) [1]	90 mg/m³
GVI (OEL TWA) [2]	50 ppm
Czech Republic - Occupational Exposure Limits	
Local name	Oxid dusný
PEL (OEL TWA)	180 mg/m³
PEL (OEL TWA) [ppm]	100 ppm
NPK-P (OEL C)	360 mg/m³
NPK-P (OEL C) [ppm]	200 ppm

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Denmark - Occupational Exposure Limits			
Local name		Dinitrogenoxid (Kvælstofforilte)	
OEL TWA [1]		90 mg/m³	
OEL TWA [2]		50 ppm	
Estonia - Occupational Exposure Limits			
Local name		Dilämmastikoksiid (naerugaas)	
OEL TWA		180 mg/m³	
OEL TWA [ppm]		100 ppm	
OEL STEL		900 mg/m³	
OEL STEL [ppm]		500 ppm	
Finland - Occupational Exposure Limits			
Local name		Typpioksiduuli	
HTP (OEL TWA) [1]		180 mg/m³	
HTP (OEL TWA) [2]		100 ppm	
Germany - Occupational Exposure Limits (TRGS 900)			
Local name		Distickstoffoxid	
AGW (OEL TWA) [1]		180 mg/m³	
AGW (OEL TWA) [2]		100 ppm	
Remark		DFG,Y	
Hungary - Occupational Exposure Limits			
Local name		DINITROGÉN-OXID	
AK (OEL TWA)		180 mg/m³	
CK (OEL STEL)		720 mg/m³	
Ireland - Occupational Exposure Limits			
Local name		Nitrous oxide	
OEL TWA [1]		90 mg/m³	
OEL TWA [2]		50 ppm	
Lithuania - Occupational Exposure Limits			
Local name		Diazoto oksidas (azoto suboksidas)	
IPRV (OEL TWA)		180 mg/m³	
IPRV (OEL TWA) [ppm]		100 ppm	
TPRV (OEL STEL)		900 mg/m³	
TPRV (OEL STEL) [ppm]		500 ppm	

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Poland - Occupational Exposure Limits	
Local name	Tlenek diazotu
NDS (OEL TWA)	90 mg/m³
Portugal - Occupational Exposure Limits	
Local name	Óxido nitroso
OEL TWA [ppm]	50 ppm
Slovenia - Occupational Exposure Limits	
Local name	didušikov oksid
OEL TWA	180 mg/m³
OEL TWA [ppm]	100 ppm
OEL STEL	720 mg/m³
OEL STEL [ppm]	400 ppm
Spain - Occupational Exposure Limits	
Local name	Óxido de dinitrógeno (Protóxido de nitrógeno)
VLA-ED (OEL TWA) [1]	92 mg/m³
VLA-ED (OEL TWA) [2]	50 ppm
Sweden - Occupational Exposure Limits	
Local name	Dikväveoxid
NGV (OEL TWA)	180 mg/m³ 180 mg/m³
NGV (OEL TWA) [ppm]	100 ppm 100 ppm
KTV (OEL STEL)	900 mg/m³ 900 mg/m³
KTV (OEL STEL) [ppm]	500 ppm 500 ppm
United Kingdom - Occupational Exposure Limits	
Local name	Nitrous oxide
WEL TWA (OEL TWA) [1]	183 mg/m³
WEL TWA (OEL TWA) [2]	100 ppm
Iceland - Occupational Exposure Limits	
Local name	Díköfnunarefnisoxíð (dínítrógenoxíð, glaðloft, hláturgas)
OEL TWA	90 mg/m³
OEL TWA [ppm]	50 ppm

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Norway - Occupational Exposure Limits	
Local name	Dinitrogenoksid
Grenseverdi (OEL TWA) [1]	90 mg/m³
Grenseverdi (OEL TWA) [2]	50 ppm
Switzerland - Occupational Exposure Limits	
Local name	Distickstoffmonoxid
MAK (OEL TWA) [1]	182 mg/m³ 182 mg/m³
MAK (OEL TWA) [2]	100 ppm 100 ppm
KZGW (OEL STEL)	364 mg/m³ 364 mg/m³
KZGW (OEL STEL) [ppm]	200 ppm 200 ppm
Remark	R2 _F R2 _D - ZNS, Blut, Leber ^{KT HU} - NIOSH
USA - ACGIH - Occupational Exposure Limits	
Local name	Nitrous oxide
ACGIH OEL TWA [ppm]	50 ppm
Remark (ACGIH)	CNS impair; hematologic eff

Nitrous oxide (10024-97-2)	
DNEL: Derived no effect level (Workers)	
Long-term - systemic effects, inhalation	183 mg/m³

PNEC (Predicted No-Effect Concentration) : None established.

8.2. Exposure controls

8.2.1. Appropriate engineering controls


Provide adequate general and local exhaust ventilation.
Product to be handled in a closed system.
Systems under pressure should be regularly checked for leakages.
Ensure exposure is below occupational exposure limits (where available).
Consider the use of a work permit system e.g. for maintenance activities.

8.2.2. Individual protection measures, e.g. personal protective equipment

A risk assessment should be conducted and documented in each work area to assess the risks related to the use of the product and to select the PPE that matches the relevant risk.
The following recommendations should be considered:
PPE compliant to the recommended EN/ISO standards should be selected.
: Wear goggles and a face shield when transfilling or breaking transfer connections.
Standard EN 166 - Personal eye-protection - specifications.
Provide readily accessible eye wash stations and safety showers.
: Wear working gloves when handling gas containers.
Standard EN 388 - Protective gloves against mechanical risk, performance level 1 or higher.

• Eye/face protection

• Skin protection
- Hand protection

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- Other	: Wear safety shoes while handling containers. Standard EN ISO 20345 - Personal protective equipment - Safety footwear.
• Respiratory protection	: Gas filters may be used if all surrounding conditions e.g. type and concentration of the contaminant(s) and duration of use are known. Use gas filters with full face mask, where exposure limits may be exceeded for a short-term period, e.g. connecting or disconnecting containers. Standard EN 137 - Self-contained open-circuit compressed air breathing apparatus with full face mask. Consult respiratory device supplier's product information for the selection of the appropriate device. Gas filters do not protect against oxygen deficiency. Standard EN 14387 - Gas filter(s), combined filter(s) and standard EN136, full face masks . Keep self contained breathing apparatus readily available for emergency use. Self contained breathing apparatus is recommended, where unknown exposure may be expected, e.g. during maintenance activities on installation systems.
• Thermal hazards	: None in addition to the above sections.


8.2.3. Environmental exposure controls

Refer to local regulations for restriction of emissions to the atmosphere. See section 13 for specific methods for waste gas treatment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	
- Physical state at 20°C / 101.3kPa	: Gas
- Colour	: Yellow
Odour	: odourless Odour threshold is subjective and inadequate to warn of overexposure.
pH	: Not applicable for gases and gas mixtures.
Melting point / Freezing point	: Not applicable for gas mixtures.
Boiling point	: Not applicable for gas mixtures.
Flash point	: Not applicable for gases and gas mixtures.
Flammability	: Non flammable.
Explosive limits	: Non flammable.
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Vapour pressure [20°C]	: Not applicable.
Vapour pressure [50°C]	: Not applicable.
Density	: Not applicable
Vapour density	: Not applicable.
Relative density, liquid (water=1)	: Not applicable
Relative density, gas (air=1)	: Lighter or similar to air.
Water solubility	: Solubility in water of component(s) of the mixture : • Sodium benzoate: 556 g/l • Sulfuric acid, mono-C12-16-alkyl esters, sodium salts: > 250 g/l • Nitrous oxide: 1500 mg/l
Partition coefficient n-octanol/water (Log Kow)	: Not applicable for gas mixtures.
Auto-ignition temperature	: Non flammable.
Decomposition temperature	: Not applicable.
Viscosity, kinematic	: No reliable data available.
Particle characteristics	: Not applicable

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9.2. Other information

9.2.1. Information with regard to physical hazard classes

Explosive properties : Not applicable.
Oxidising properties : Not applicable.

9.2.2. Other safety characteristics

Molar mass : Not applicable for gas mixtures.
Evaporation rate : Not applicable for gases and gas mixtures.
Other data : None.

SECTION 10: Stability and reactivity

10.1. Reactivity

No reactivity hazard other than the effects described in sub-sections below.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Reactivity : None.
: This mixture contains components with the following reactivity : Violently oxidises organic material.

10.4. Conditions to avoid

Avoid moisture in installation systems.

10.5. Incompatible materials

For additional information on compatibility refer to ISO 11114.

10.6. Hazardous decomposition products

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


SECTION 11: Toxicological information

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

Acute toxicity : Classification criteria are not met.

Tetrasodium (1-hydroxyethylidene)bisphosphonate (3794-83-0)	
Nitrous oxide (10024-97-2)	
LC50 Inhalation - Rat [ppm]	500000 ppm/4h

Skin corrosion/irritation : Classification criteria are not met.
Serious eye damage/irritation : Causes serious eye irritation.
Respiratory or skin sensitisation : No known effects from this product.
Germ cell mutagenicity : No known effects from this product.
Carcinogenicity : No known effects from this product.
Toxic for reproduction : Fertility : No known effects from this product.
Toxic for reproduction : unborn child : No known effects from this product.
STOT-single exposure : Classification criteria are not met.

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STOT-repeated exposure : No known effects from this product.

Aspiration hazard : Not applicable for gases and gas mixtures.

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Assessment : No data available.

EC50 48h - Daphnia magna [mg/l] : No data available.

EC50 72h - Algae [mg/l] : No data available.

LC50 96 h - Fish [mg/l] : No data available.

Nitrous oxide (10024-97-2)

EC50 48h - Daphnia magna [mg/l]	Study scientifically unjustified.
EC50 72h - Algae [mg/l]	Study scientifically unjustified.
LC50 96 h - Fish [mg/l]	Study scientifically unjustified.

12.2. Persistence and degradability

Assessment : No data available.

12.3. Bioaccumulative potential

Assessment : No data available.

12.4. Mobility in soil

Assessment : Because of its high volatility, the product is unlikely to cause ground or water pollution.
Partition into soil is unlikely.

12.5. Results of PBT and vPvB assessment

Assessment : Not classified as PBT or vPvB.

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

Other adverse effects : No known effects from this product.

Effect on the ozone layer : None.

Effect on global warming : Contains greenhouse gas(es).

SECTION 13: Disposal considerations

13.1. Waste treatment methods


Contact supplier if guidance is required.

Must not be discharged to atmosphere.

Ensure that the emission levels from local regulations or operating permits are not exceeded.

Refer to the EIGA code of practice Doc.30 "Disposal of Gases", downloadable at <http://www.eiga.org> for more guidance on suitable disposal methods.

Return unused product in original container to supplier.

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List of hazardous waste codes (from Commission Decision 2000/532/EC as amended) : 16 05 04 *: Gases in pressure containers (including halons) containing hazardous substances.

13.2. Additional information

External treatment and disposal of waste should comply with applicable local and/or national regulations.

SECTION 14: Transport information

14.1. UN number or ID number

In accordance with ADR / RID / IMDG / IATA / ADN
UN-No. : 1950

14.2. UN proper shipping name

Transport by road/rail (ADR/RID) : AEROSOLS
Transport by air (ICAO-TI / IATA-DGR) : Aerosols, non-flammable
Transport by sea (IMDG) : AEROSOLS

14.3. Transport hazard class(es)

Labelling



2.2 : Non-flammable, non-toxic gases.

Transport by road/rail (ADR/RID)

Class : 2
Classification code : 5A
Tunnel Restriction : E - Passage forbidden through tunnels of category E

Transport by air (ICAO-TI / IATA-DGR)

Class / Div. (Sub. risk(s)) : 2.2

Transport by sea (IMDG)

Class / Div. (Sub. risk(s)) : 2.1
Emergency Schedule (EmS) - Fire : F-D
Emergency Schedule (EmS) - Spillage : S-U

14.4. Packing group

Transport by road/rail (ADR/RID) : Not established.
Transport by air (ICAO-TI / IATA-DGR) : Not established.
Transport by sea (IMDG) : Not established.


14.5. Environmental hazards

Transport by road/rail (ADR/RID) : None.
Transport by air (ICAO-TI / IATA-DGR) : None.
Transport by sea (IMDG) : None.

14.6. Special precautions for user

Packing Instruction(s)

Transport by road/rail (ADR/RID) : P207.
LP200
Transport by air (ICAO-TI / IATA-DGR)
Passenger and Cargo Aircraft : 203.
Cargo Aircraft only : 203.

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Transport by sea (IMDG)	: P207. LP200
Special transport precautions	: Avoid transport on vehicles where the load space is not separated from the driver's compartment. Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency. Before transporting product containers: - Ensure there is adequate ventilation. - Ensure that containers are firmly secured. - Ensure valve is closed and not leaking. - Ensure valve outlet cap nut or plug (where provided) is correctly fitted. - Ensure valve protection device (where provided) is correctly fitted.

14.7. Maritime transport in bulk according to IMO instruments

Not applicable.

SECTION 15: Regulatory information

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

EU-Regulations

Restrictions on use	: None. Contains no substance(s) listed on the REACH Candidate List
National legislation	: Ensure all national/local regulations are observed.
Seveso Directive : 2012/18/EU (Seveso III)	: Not covered.

National regulations

Germany

Water hazard class (WGK)	: WGK 1, Slightly hazardous to water (Classification according to AwSV, Annex 1)
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Netherlands

SZW-lijst van kankerverwekkende stoffen	: None of the components are listed
SZW-lijst van mutagene stoffen	: None of the components are listed
SZW-lijst van reprotoxische stoffen – Borstvoeding	: None of the components are listed
SZW-lijst van reprotoxische stoffen – Vruchtbaarheid	: None of the components are listed
SZW-lijst van reprotoxische stoffen – Ontwikkeling	: None of the components are listed


15.2. Chemical safety assessment

A CSA does not need to be carried out for this product.

SECTION 16: Other information


Indication of changes	: Safety data sheet in accordance with commission regulation (EU) No 2020/878.
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Section	Changed item	Change	Comments
1.3	Company	Modified	Version 6.0. New address in Sweden. (This change only applies to the Swedish (SE) version of this SDS)

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		Revised edition no : 6.0
		Revision date : 2024-02-02
		Supersedes version of : 2023-03-13
1000 bubbles		NOAL_1000 UFI: 2VR2-G049-K00X-3CH9
		Country : SE / Language : EN

Abbreviations and acronyms	: ATE - Acute Toxicity Estimate CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008 REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 EINECS - European Inventory of Existing Commercial Chemical Substances CAS# - Chemical Abstract Service number PPE - Personal Protection Equipment LC50 - Lethal Concentration to 50 % of a test population RMM - Risk Management Measures PBT - Persistent, Bioaccumulative and Toxic vPvB - Very Persistent and Very Bioaccumulative STOT- SE : Specific Target Organ Toxicity - Single Exposure CSA - Chemical Safety Assessment EN - European Standard UN - United Nations ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road IATA - International Air Transport Association IMDG code - International Maritime Dangerous Goods RID - Regulations concerning the International Carriage of Dangerous Goods by Rail WGK - Water Hazard Class STOT - RE : Specific Target Organ Toxicity - Repeated Exposure
Training advice	: None.
Further information	: Classification using data from databases maintained by the European Industrial Gases Association (EIGA). Data is maintained in EIGA doc 169 : 'Classification and Labelling Guide', downloadable at : http://www.eiga.eu . Classification in accordance with the procedures and calculation methods of Regulation (EC) 1272/2008 (CLP).

Full text of H- and EUH-statements	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aerosol 3	Aerosol, Category 3
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Sol. 1	Flammable solids, Category 1
H228	Flammable solid.
H229	Pressurised container: May burst if heated.
H270	May cause or intensify fire; oxidiser.
H280	Contains gas under pressure; may explode if heated.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.

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H412	Harmful to aquatic life with long lasting effects.	
Ox. Gas 1	Oxidising Gases, Category 1	
Press. Gas (Liq.)	Gases under pressure : Liquefied gas	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation	

DISCLAIMER OF LIABILITY

: Before using this product in any new process or experiment, a thorough material compatibility and safety study should be carried out.

Details given in this document are believed to be correct at the time of going to press.

Whilst proper care has been taken in the preparation of this document, no liability for injury or damage resulting from its use can be accepted.

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