

# 02 21 %;N2 79 %

# Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 03/03/2016 Revision date: 03/06/2024 Supersedes version of: 11/04/2024 Version: 1.3

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

#### 1.1. Product identifier

Product form : Mixture

Name : 02 21 %;N2 79 %

Trade name : Synthetic Air 4.0 Dry, Synthetic Air 4.0 Zero, HiQ Synthetic Air 5.0, Synthetic Air 5.0 Instrument, HiQ

Synthetic Air 5.5, Synthetic Air 5.5 Scientific, Synthetic Air Veriseq Process

Product code : 000010030978

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

#### 1.2.1. Relevant identified uses

Relevant identified uses : Industrial and professional use for chemical analysis, calibration, (routine) quality control,

laboratory use, under controlled conditions. Perform risk assessment prior to use.

1.2.2. Uses advised against

Uses advised against : Consumer use.

Uses other than those listed above are not supported, contact your supplier for more information on

other uses.

# 1.3. Details of the supplier of the safety data sheet

Linde Gas AS
Postboks 13 Nydalen
N-0409 Oslo
Norway
T +4723177200
sds.ren@linde.com

## 1.4. Emergency telephone number

Emergency number : +47 22 59 13 00 (24h - Giftinformasjonssentralen)

## SECTION 2: Hazards identification

# 2.1. Classification of the substance or mixture

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

Physical hazards Gases under pressure : Compressed gas H280

Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

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#### 2.2. Label elements

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

Hazard pictograms (CLP)



GHS04

Signal word (CLP) : Warning

Hazard statements (CLP) : H280 - Contains gas under pressure; may explode if heated.

Precautionary statements (CLP)

- Storage : P403 - Store in a well-ventilated place. Supplemental information : Asphyxiant in high concentrations.

#### 2.3. Other hazards

Other hazards : Not classified as PBT or vPvB. The substance/mixture has no endocrine disrupting properties.

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 substance(s) are 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 %

# SECTION 3: Composition/information on ingredients

## 3.1. Substances

Not applicable

## 3.2. Mixtures

Contains no other components or impurities which will influence the classification of the product.

This mixture does not contain any substances to be mentioned according to the criteria of section 3.2 of REACH Annex II

# SECTION 4: First aid measures

## 4.1. Description of first aid measures

First-aid measures after inhalation : Remove victim to uncontaminated area wearing self contained breathing apparatus. Keep victim

warm and rested. Call a doctor. Perform cardiopulmonary resuscitation if breathing stopped.

First-aid measures after skin contact : Adverse effects not expected from this product. First-aid measures after eye contact : Adverse effects not expected from this product.

First-aid measures after ingestion : Ingestion is not considered a potential route of exposure.

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

Most important symptoms and effects, both acute and

delayed

In high concentrations may cause asphyxiation. Symptoms may include loss of mobility/consciousness. Victim may not be aware of asphyxiation.

See section 11.

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

None.

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## **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

Suitable extinguishing media : Water spray or fog. Product does not burn, use fire control measures appropriate for the surrounding

fire.

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

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

Reactivity in case of fire : No reactivity hazard other than the effects described in sub-sections below.

Specific hazards : Exposure to fire may cause containers to rupture/explode.

## 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 : In confined space use self-contained breathing apparatus.

Standard protective clothing and equipment (Self Contained Breathing Apparatus) for fire fighters. Standard EN 469 - Protective clothing for firefighters. Standard - EN 659: Protective gloves for

firefighters.

 $Standard\ EN\ 137-Self-contained\ open-circuit\ compressed\ air\ breathing\ apparatus\ with\ full\ face$ 

mask.

#### SECTION 6: Accidental release measures

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

## 6.1.1. For non-emergency personnel

Emergency procedures : Act in accordance with local emergency plan. Try to stop release. Evacuate area. Ensure adequate

air ventilation. Stay upwind. See section 8 of the SDS for more information on personal protective

equipment.

6.1.2. For emergency responders

Emergency procedures : Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be

safe. Oxygen detectors should be used when asphyxiating gases may be released. See section 5.3

of the SDS for more information.

# 6.2. Environmental precautions

Try to stop release.

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

Methods and material for containment and cleaning up : Ventilate area.

#### 6.4. Reference to other sections

See also sections 8 and 13.

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## SECTION 7: Handling and storage

## 7.1. Precautions for safe handling

Safe handling of the gas receptacle

Safe use of the product

: 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 regularily) 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.

Do not breathe gas.

Avoid release of product into work area.

: 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.

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

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.

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## SECTION 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

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DNEL/DMEL (additional information)	
Additional information None available.	
PNEC (additional information)	
Additional information	None available.
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# Additional information

: None available.

# 8.1.5. Control banding

No additional information available

## 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

#### Appropriate engineering controls:

Provide adequate general and local exhaust ventilation. Oxygen detectors should be used when asphyxiating gases may be released. Systems under pressure should be regularily checked for leakages. Consider the use of a work permit system e.g. for maintenance activities.

#### 8.2.2. Personal protection equipment

#### 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.

## Personal protective equipment symbol(s):



### 8.2.2.1. Eye and face protection

### Eye protection:

Wear safety glasses with side shields.
Standard EN 166 - Personal eye-protection - specifications

#### 8.2.2.2. Skin protection

### Hand protection:

Wear working gloves when handling gas containers.

Standard EN 388 - Protective gloves against mechanical risks, performance level 1 or higher.

## Other skin protection

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Wear safety shoes while handling containers.

Standard EN ISO 20345 - Personal protective equipment - Safety footwear.

#### Materials for protective clothing:

#### 8.2.2.3. Respiratory protection

#### Respiratory protection:

Self contained breathing apparatus is recommended, where unknown exposure may be expected, e.g. during maintenance activities on installation systems. Standard EN 137 - Self-contained open-circuit compressed air breathing apparatus with full face mask.

When indicated by a risk assessment, Respiratory Protective Equipment must be used. The selection of the Respiratory Protective Device (RPD) must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected RPD.

#### 8.2.2.4. Thermal hazards

#### Thermal hazard protection:

None in addition to the above sections.

#### 8.2.3. Environmental exposure controls

#### Environmental exposure controls:

None necessary.

## SECTION 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

Appearance

Physical state : Gas

Colour : Not available Form : Compressed gas

Appearance : Gas or low boiling-point liquid.

Odour : Not available

Odour threshold : Odour threshold is subjective and inadequate to warn of overexposure.

Melting point : Not applicable for gases and gas mixtures.

Freezing point : Not applicable

Boiling point : Not applicable for gas mixtures.

Flammability : Non flammable.

Oxidising properties : No oxidising properties.

Explosive limits : Non flammable.

Lower explosion limit : Not available

Upper explosion limit : Not available

Flash point : Not applicable for gases and gas mixtures.

Auto-ignition temperature : Non flammable.

Decomposition temperature : Not applicable.

pH : Not applicable for gases and gas mixtures.

Viscosity, kinematic : Not applicable for gases and gas mixtures.

Viscosity, dynamic : Not applicable for gases and gas mixtures.

Solubility : Water:
Partition coefficient n-octanol/water (Log Kow) : Not available

Partition coefficient n-octanol/water (Log Pow) : Not applicable for gas mixtures.

Vapour pressure: Not applicable.Vapour pressure at 50°C: Not applicable.Density: Not applicableRelative density: Not applicable

Relative vapour density at 20°C : Not applicable for gases and gas mixtures.

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Relative gas density : Lighter or similar to air.
Particle characteristics : Not applicable

Not applicable for gases and gas mixtures.

## 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

Gas group : Compressed gas

Additional information : None.

# SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Data for mixtures are not available.

#### 10.2. Chemical stability

Stable under normal conditions.

## 10.4. Conditions to avoid

Avoid moisture in installation systems.

# 10.3. Possibility of hazardous reactions

No additional information available

## 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 : No known toxicological effects from this product.

Acute toxicity (dermal) : Not classified Acute toxicity (inhalation) : Not classified

Skin corrosion/irritation : No known effects from this product.

pH: Not applicable for gases and gas mixtures.

Serious eye damage/irritation : No known effects from this product.

pH: Not applicable for gases and gas mixtures.

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.

Reproductive toxicity : Not classified

Toxic for reproduction : Fertility : No known effects from this product.

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Toxic for reproduction : unborn child : No known effects from this product.

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

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

Aspiration hazard : Not applicable for gases and gas mixtures.

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Viscosity, kinematic Not applicable for gases and gas mixtures.

# 11.2. Information on other hazards

#### 11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties

: The substance/mixture has no endocrine disrupting properties.

## 11.2.2. Other information

No additional information available

## SECTION 12: Ecological information

## 12.1. Toxicity

Hazardous to the aquatic environment, short–term

(acute)

Hazardous to the aquatic environment, long-term

(chronic)

: Not classified

: Not classified

Not rapidly degradable

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LC50 96 h - Fish [mg/l]	No data available.
EC50 48h - Daphnia magna [mg/l]	No data available.
EC50 72h - Algae [mg/l]	No data available.

## 12.2. Persistence and degradability

No additional information available

## 12.3. Bioaccumulative potential

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Partition coefficient n-octanol/water (Log Pow)	Not applicable for gas mixtures.
Assessment	No data available.

# 12.4. Mobility in soil

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	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.

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## 12.6. Endocrine disrupting properties

Other adverse effects

: No known effects from this product.

Assessment

: The substance/mixture has no endocrine disrupting properties.

Adverse effects on the environment caused by endocrine disrupting properties

: The substance/mixture has no endocrine disrupting properties.

12.7. Other adverse effects

Other adverse effects : No known effects from this product.

Effect on the ozone layer : No effect on the ozone layer.

# SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Waste treatment methods

: May be vented to atmosphere in a well ventilated place. Do not discharge into any place where its accumulation could be dangerous. Return unused product in original container to supplier.

List of hazardous waste codes (from Commission Decision 2000/532/EC as amended)

: 16 05 05 : Gases in pressure containers other than those mentioned in 16 05 04.

## 13.2. Additional information

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

# SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID num	ber			
UN 1956	UN 1956	UN 1956	UN 1956	UN 1956
14.2. UN proper shipping n	14.2. UN proper shipping name			
COMPRESSED GAS, N.O.S.	COMPRESSED GAS, N.O.S.	Compressed gas, n.o.s.	COMPRESSED GAS, N.O.S.	COMPRESSED GAS, N.O.S.
Transport document description	Transport document description			
UN 1956 COMPRESSED GAS, N.O.S., 2.2, (E)	UN 1956 COMPRESSED GAS, N.O.S., 2	UN 1956 Compressed gas, n.o.s., 2.2	UN 1956 COMPRESSED GAS, N.O.S., 2.2	UN 1956 COMPRESSED GAS, N.O.S., 2.2
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
4.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
4.5. Environmental hazar	ds			
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

## 14.6. Special precautions for user

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.

#### Overland transport

Classification code (ADR) : 1A

Special provisions (ADR) : 274, 378, 392, 655, 662

Limited quantities (ADR): 120mlExcepted quantities (ADR): E1Packing instructions (ADR): P200Vehicle for tank carriage: ATTransport category (ADR): 3Hazard identification number (Kemler No.): 20

Orange plates : T

20 1956

Tunnel restriction code (ADR) : E

## Transport by sea

Special provisions (IMDG) : 274, 378, 392
Limited quantities (IMDG) : 120 ml
Excepted quantities (IMDG) : E1
Packing instructions (IMDG) : P200
EmS-No. (Fire) : F-C
EmS-No. (Spillage) : S-V
Stowage category (IMDG) : A

#### Air transport

PCA Excepted quantities (IATA) : E1
PCA Limited quantities (IATA) : F0

PCA Limited quantities (IATA) : FORBIDDEN
PCA limited quantity max net quantity (IATA) : FORBIDDEN
PCA packing instructions (IATA) : 200
PCA max net quantity (IATA) : 75kg
CAO packing instructions (IATA) : 200
CAO max net quantity (IATA) : 150kg
ERG code (IATA) : 2L

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Inland waterway transport

Classification code (ADN) : 1A

Special provisions (ADN) : 274, 378, 392, 655, 662

Limited quantities (ADN): 120 mlExcepted quantities (ADN): E1Equipment required (ADN): PPNumber of blue cones/lights (ADN): 0

Rail transport

Classification code (RID) : 1A

Special provisions (RID) : 274, 378, 392, 655, 662

Limited quantities (RID) : 120ml Excepted quantities (RID) : E1 : P200 Packing instructions (RID) Mixed packing provisions (RID) : MP9 Portable tank and bulk container instructions (RID) : (M) Tank codes for RID tanks (RID) : CxBN(M) Special provisions for RID tanks (RID) : TA4, TT9 Transport category (RID) : 3

Special provisions for carriage - Loading, unloading and

handling (RID)

: CW9, CW10, CW36

Colis express (express parcels) (RID) : CE3
Hazard identification number (RID) : 20

## 14.7. Maritime transport in bulk according to IMO instruments

IBC code : Not applicable.

## SECTION 15: Regulatory information

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

# 15.1.1. EU-Regulations

## REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

## REACH Annex XIV (Authorisation List)

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

## REACH Candidate List (SVHC)

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

#### PIC Regulation (Prior Informed Consent)

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

#### POP Regulation (Persistent Organic Pollutants)

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

#### Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

## VOC Directive (2004/42)

Restrictions on use :

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## Seveso Directive (Disaster Risk Reduction)

Seveso Directive : 2012/18/EU (Seveso III) : Not covered.

#### Explosives Precursors Regulation (2019/1148)

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

#### Drug Precursors Regulation (273/2004)

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

#### 15.1.2. National regulations

Safety data sheet in accordance with commission regulation (EU) No 2020/878.

Council Directive 89/391/EEC on the introduction of measures to encourage improvements in the safety and health of workers at work

Directive 2016/425/EEC on personal protective equipment

Directive 2014/34/EU on equipment and protective systems intended for use in potentially explosive atmospheres (ATEX)

Only products that comply with the food regulations (EC) No. 1333/2008 and (EU) No. 231/2012 and are labelled as such may be used as food additives.

This Safety Data Sheet has been produced to comply with Regulation (EU) 2015/830.

## 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.

Abbreviations an	d acronyms:
ATE	ATE - Acute Toxicity Estimate
CLP	CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
REACH	REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
EINECS	EINECS - European Inventory of Existing Commercial Chemical Substances
CAS#	CAS# - Chemical Abstract Service number
PPE	PPE - Personal Protection Equipment
LC50	LC50 - Lethal Concentration to 50 % of a test population
RMM	RMM - Risk Management Measures
PBT	PBT - Persistent, Bioaccumulative and Toxic
vPvB	vPvB - Very Persistent and Very Bioaccumulative
STOT-SE	STOT- SE : Specific Target Organ Toxicity - Single Exposure
CSA	CSA - Chemical Safety Assessment
EN	EN - European Standard
UN	UN - United Nations
ADR	ADR - Agreement concerning the International Carriage of Dangerous Goods by Road
IATA	IATA - International Air Transport Association
IMDG	IMDG code - International Maritime Dangerous Goods

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Training advice

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Abbreviations and acronyms:	
RID	RID - Regulations concerning the International Carriage of Dangerous Goods by Rail
WGK	WGK - Water Hazard Class
STOT-RE	STOT - RE : Specific Target Organ Toxicity - Repeated Exposure
UFI	UFI : Unique Formula Identifier

	more guidance, refer to EIGA SL 01 "Dangers of Asphyxiation", downloadable at
	http://www.eiga.eu
Other 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:	
H280	Contains gas under pressure; may explode if heated.
Press. Gas (Comp.)	Gases under pressure : Compressed gas

The classification complies with
DISCLAIMER OF LIABILITY

: ATP 12

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

: The hazard of asphyxiation is often overlooked and must be stressed during operator training. For

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.

Safety Data Sheet (SDS), EU NO

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 document

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