

### 5% Hydrogen sulphide in Carbon dioxide

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Reference number: SDS 01153 Issue date: 1/21/2020 Revision date: 1/13/2023 Supersedes version of: 8/25/2022 Version: 3.0

### Warning



SECTION 1: Identifi		
1.1. Product identifier		
SDS no	: SDS 0115	3
1.2. Relevant identified	uses of the substance or mixture and	uses advised against
Relevant identified uses Uses advised against	: Consumer Uses othe	and professional uses. Perform risk assessment prior to use. use. r than those listed above are not supported, contact your supplier for more n on other uses.
1.3. Details of the suppl	er of the safety data sheet	
Air Liquide UK Ltd. Station Road Coleshill B46 1JY Birmingham United Kingdom safety.aluk@airliquide.cor	<u>n</u>	
1.4. Emergency telepho	<u>ne number</u>	
Emergency telephone nur SECTION 2: Hazaro		2695 (Available 24/7)
SECTION 2: Hazaro 2.1. Classification of the Classification according	s identification	
SECTION 2: Hazard 2.1. Classification of the Classification according Physical hazards	s identification substance or mixture to Regulation (EC) No. 1272/2008 [CL	P] H280
SECTION 2: Hazard 2.1. Classification of the Classification according Physical hazards Health hazards	Is identification substance or mixture to Regulation (EC) No. 1272/2008 [CL Gases under pressure : Liquefied gas	P] H280
2.1. Classification of the Classification according Physical hazards Health hazards 2.2. Label elements	Is identification substance or mixture to Regulation (EC) No. 1272/2008 [CL Gases under pressure : Liquefied gas	P] H280
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SECTION 2: Hazard 2.1. Classification of the Classification according Physical hazards Health hazards 2.2. Label elements Labelling according to R Hazard pictograms (CLP)	Is identification substance or mixture to Regulation (EC) No. 1272/2008 [CL Gases under pressure : Liquefied gas Acute toxicity (inhalation:gas) Categor	P] y 4 H280 H332
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SECTION 2: Hazaro 2.1. Classification of the Classification according Physical hazards Health hazards 2.2. Label elements Labelling according to F	Is identification substance or mixture to Regulation (EC) No. 1272/2008 [CL Gases under pressure : Liquefied gas Acute toxicity (inhalation:gas) Category regulation (EC) No. 1272/2008 [CLP] : GHS0 : Warning : H280 - Co H332 - Ha (CLP)	P] y 4 H280 H332 H332 H332 H332 H332 H332 H332 H332

: P403 - Store in a well-ventilated place.

- Storage



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### 2.3. Other hazards

Contact with liquid may cause cold burns/frostbite. Not classified as PBT or vPvB.

### **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Carbon dioxide	CAS-No.: 124-38-9 EC-No.: 204-696-9 EC Index-No.: REACH-no: *1	95	Press. Gas (Liq.), H280
Hydrogen sulphide	CAS-No.: 7783-06-4 EC-No.: 231-977-3 EC Index-No.: 016-001-00-4 REACH-no: 01-2119445737-29	5	Flam. Gas 1A, H220 Press. Gas (Liq.), H280 Acute Tox. 2 (Inhalation:gas), H330 STOT SE 3, H335 Aquatic Acute 1, H400

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

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

\*1: Listed in Annex IV / V REACH, exempted from registration.

\*3: Registration not required: Substance manufactured or imported < 1t/y.

# SECTION 4: First aid measures 4.1. Description of first aid measures

<ul> <li>Inhalation</li> <li>Remove victim to uncontaminated area wearing self contained breathing apparatus. Keep victim warm and rested. Call a doctor. Perform cardiopulmonary resuscitation if breathing stopped.</li> <li>Skin contact</li> <li>In case of frostbite spray with water for at least 15 minutes. Apply a sterile dressing. Obtain medical assistance.</li> <li>Eye contact</li> <li>Immediately flush eyes thoroughly with water for at least 15 minutes.</li> <li>Ingestion</li> <li>Ingestion is not considered a potential route of exposure.</li> </ul>	4.0 Mastimus stant summations of	ad affects both south and delayed
<ul> <li>victim warm and rested. Call a doctor. Perform cardiopulmonary resuscitation if breathing stopped.</li> <li>Skin contact</li> <li>In case of frostbite spray with water for at least 15 minutes. Apply a sterile dressing. Obtain medical assistance.</li> </ul>	- Ingestion	: Ingestion is not considered a potential route of exposure.
<ul> <li>victim warm and rested. Call a doctor. Perform cardiopulmonary resuscitation if breathing stopped.</li> <li>Skin contact</li> <li>In case of frostbite spray with water for at least 15 minutes. Apply a sterile dressing. Obtain</li> </ul>	- Eye contact	: Immediately flush eyes thoroughly with water for at least 15 minutes.
victim warm and rested. Call a doctor. Perform cardiopulmonary resuscitation if breathing stopped.	- Skin contact	
		victim warm and rested. Call a doctor. Perform cardiopulmonary resuscitation if breathing stopped.

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

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.	
	Product does not burn, use fire control measures appropriate for the surrounding fire.	
<ul> <li>Unsuitable extinguishing media</li> </ul>	: Do not use water jet to extinguish.	
5.2. Special hazards arising from the su	bstance or mixture	
Specific hazards	: Exposure to fire may cause containers to rupture/explode.	



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Hazardous combustion products	: None that are more hazardous than the product itself.
5.3. Advice for firefighters	
Specific methods	<ul> <li>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.</li> <li>If possible, stop flow of product.</li> <li>Use water spray or fog to knock down fire fumes if possible.</li> <li>Move containers away from the fire area if this can be done without risk.</li> </ul>
Special protective equipment for fire fighters	<ul> <li>Wear gas tight chemically protective clothing in combination with self contained breathing apparatus.</li> <li>Standard EN 943-2: Protective clothing against liquid and gaseous chemicals, aerosols and solid particles. Gas-tight chemical protective suits for emergency teams.</li> <li>Standard EN 137 - Self-contained open-circuit compressed air breathing apparatus with full face mask.</li> </ul>

### **SECTION 6: Accidental release measures**

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

For non-emergency personnel :	Act in accordance with local emergency plan. Try to stop release. Evacuate area. Ensure adequate air ventilation. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous.	
For emergency responders : 6.2. Environmental precautions	Stay upwind. See section 8 of the SDS for more information on personal protective equipment. Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe. 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		
	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 regularily) checked for leaks before use. Do not smoke while handling product. Avoid exposure, obtain special instructions before use. 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.



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Safe handling of the gas receptacle	<ul> <li>Refer to supplier's container handling instructions.</li> <li>Do not allow backfeed into the container.</li> <li>Protect containers from physical damage; do not drag, roll, slide or drop.</li> <li>When moving cylinders, even for short distances, use a cart (trolley, hand truck, etc.) designed to transport cylinders.</li> <li>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.</li> <li>If user experiences any difficulty operating valve discontinue use and contact supplier.</li> <li>Never attempt to repair or modify container valves or safety relief devices.</li> <li>Damaged valves should be reported immediately to the supplier.</li> <li>Keep container valve outlets clean and free from contaminants particularly oil and water.</li> <li>Replace valve outlet caps or plugs and container caps where supplied as soon as container is disconnected from equipment.</li> <li>Close container valve after each use and when empty, even if still connected to equipment.</li> <li>Never use direct flame or electrical heating devices to raise the pressure of a container.</li> <li>Do not remove or deface labels provided by the supplier for the identification of the content of the container.</li> <li>Suck back of water into the container must be prevented.</li> <li>Open valve slowly to avoid pressure shock.</li> </ul>
7.2. Conditions for safe storage, including any inc	compatibilities
	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

Hydrogen sulphide (7783-06-4)		
DNEL: Derived no effect level (Workers)		
Acute - local effects, inhalation	14 mg/m³	
Acute - systemic effects, inhalation	14 mg/m³	
Long-term - local effects, inhalation	7 mg/m³	
Long-term - systemic effects, inhalation	7 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 regularily checked for leakages. Ensure exposure is below occupational exposure limits (where available). Gas detectors should be used when toxic gases may be released. Consider the use of a work permit system e.g. for maintenance activities.



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### 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.
Eye/face protection	: Wear goggles when transfilling or breaking transfer connections.
	Standard EN 166 - Personal eve-protection - specifications.
Skin protection	
- Hand protection	: Wear working gloves when handling gas containers.
	Standard EN 388 - Protective gloves against mechanical risk, performance level 1 or higher.
	Wear cold insulating gloves when transfilling or breaking transfer connections.
	Standard EN 511 - Cold insulating gloves.
- 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
Thermal hazards	expected, e.g. during maintenance activities on installation systems. None in addition to the above sections.
	. אטויב ווי מטטונטוי נט נוופ מטטעפ גפטנוטווג.
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	: Colourless.
Odour	: Odour threshold is subjective and inadequate to warn of overexposure.
	Mixture contains one or more component(s) which have the following odour:
	Rotten eggs.
Melting point / Freezing point	: Not applicable for gas mixtures.
Boiling point	: Not applicable for gas mixtures.
	It is technically not possible to determine the boiling point or range of this mixture.
	Component with lowest boiling point: Hydrogen sulphide -60.2 °C
Flammability	: 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.
рН	: Not applicable for gases and gas mixtures.
Viscosity, kinematic	: No reliable data available.
Water solubility [20°C]	: Completely soluble.
Partition coefficient n-octanol/water (Log Kow)	: Not applicable for gas mixtures.
Vapour pressure [20°C]	: Not known.
	Component with lowest volatility : Hydrogen sulphide 18.8 bar(a)
	Component with highest volatility: Carbon dioxide 57.3 bar(a)



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Density and/or relative density Relative vapour density (air=1)	<ul> <li>Not available.</li> <li>Not applicable.</li> <li>Heavier than air.</li> <li>Not applicable.</li> </ul>
9.2. Other information	
9.2.1. Information with regard to physical hazard cl	lasses
Explosive properties	Not applicable.
Explosion limits	Non flammable.
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	Gas/vapour heavier than air. May accumulate in confined spaces, particularly at or below ground level.

### SECTION 10: Stability and reactivity

10.1. Reactivity	
	No reactivity hazard other than the effects described in sub-sections below. Data for mixture are not available. This mixture contains components with the following reactivity : Can form explosive mixture with air. May react violently with oxidants.
10.2. Chemical stability	
	Stable under normal conditions.
10.3. Possibility of hazardous reactions	
	None under normal use.
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	:	Harmful if inhaled.
Hydrogen sulphide (7783-06-4)		
LC50 Inhalation - Rat [ppm]		356 ppm/4h
Skin corrosion/irritation	:	No known effects from this product.
Serious eye damage/irritation	:	No known effects from this product.
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.



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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.
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	:	Classification criteria are not met.
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.

Hydrogen sulphide (7783-06-4)	
EC50 48h - Daphnia magna [mg/l]	0.12 mg/l
EC50 72h - Algae [mg/l]	1.87 mg/l
LC50 96 h - Fish [mg/l]	0.007 - 0.019 mg/l

Carbon dioxide (124-38-9)	
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.

<u>12.2. P</u>	ersistence	and c	legrada	bility

Assessment	:	No ecological damage caused by this product.
12.3. Bioaccumulative potential		
Assessment	:	No data available.
<u>12.4. Mobility in soil</u>		
Assessment	:	No ecological damage caused by this product.
12.5. Results of PBT and vPvB assessment		
Assessment	:	Not classified as PBT or vPvB.
12.6. Endocrine disrupting properties		
Assessment	:	
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.
Effect on global warming	:	Contains greenhouse gas(es).



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### **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. 16 05 04 *: Gases in pressure containers (including halons) containing hazardous
Decision 2000/532/EC as amended) 13.2. Additional information	substances.
	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. : 1955 14.2. UN proper shipping name : COMPRESSED GAS, TOXIC, N.O.S. (Carbon dioxide, Hydrogen sulphide) Transport by road/rail (ADR/RID) : Liquefied gas, toxic, n.o.s. (Carbon dioxide, Hydrogen sulphide) Transport by air (ICAO-TI / IATA-DGR) COMPRESSED GAS, TOXIC, N.O.S. (Carbon dioxide, Hydrogen sulphide) Transport by sea (IMDG) 14.3. Transport hazard class(es) Labelling 2.3 : Toxic gases. 2.2 : Non-flammable, non-toxic gases. Transport by road/rail (ADR/RID) : 2 Class Classification code : 2A Hazard identification number : 20 **Tunnel Restriction** : C/E - Tank carriage : Passage forbidden through tunnels of category C, D and E. Other carriage : Passage forbidden through tunnels of category E Transport by air (ICAO-TI / IATA-DGR) : 2.2 Class / Div. (Sub. risk(s)) Transport by sea (IMDG) Class / Div. (Sub. risk(s)) : 2.3 (2.2) Emergency Schedule (EmS) - Fire : F-C Emergency Schedule (EmS) - Spillage : S-V 14.4. Packing group Transport by road/rail (ADR/RID) : Not applicable. Transport by air (ICAO-TI / IATA-DGR) : Not applicable. Transport by sea (IMDG) : Not applicable. 14.5. Environmental hazards : None.

: None.

: None.



: P200.

: 200.

: 200.

: P200.

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### 14.6. Special precautions for user

### Packing Instruction(s)

Transport by road/rail (ADR/RID) Transport by air (ICAO-TI / IATA-DGR) Passenger and Cargo Aircraft Cargo Aircraft only Transport by sea (IMDG)

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 regulation	tions/legislation specific for the substance or mixture
EU-Regulations	
Restrictions on use	: None. Contains no substance on the REACH candidate list.
Other information, restriction and prohibition regulations Seveso Directive : 2012/18/EU (Seveso III)	<ul> <li>Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.</li> <li>Not covered.</li> </ul>
National regulations	
Regulatory reference	: Ensure all national/local regulations are observed.
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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Abbreviations and acronyms	<ul> <li>ATE - Acute Toxicity Estimate.</li> <li>CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008.</li> <li>REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.</li> <li>EINECS - European Inventory of Existing Commercial Chemical Substances.</li> <li>CAS# - Chemical Abstract Service number.</li> <li>PPE - Personal Protection Equipment.</li> <li>LC50 - Lethal Concentration to 50 % of a test population.</li> <li>RMM - Risk Management Measures.</li> <li>PBT - Persistent, Bioaccumulative and Toxic.</li> <li>vPVB - Very Persistent and Very Bioaccumulative.</li> <li>STOT - SE : Specific Target Organ Toxicity - Single Exposure.</li> <li>CSA - Chemical Safety Assessment.</li> <li>EN - European Standard.</li> <li>UN - United Nations.</li> <li>ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road.</li> <li>IATA - International Air Transport Association.</li> <li>IMDG code - International Maritime Dangerous Goods.</li> <li>RID - Regulations concerning the International Carriage of Dangerous Goods by Road.</li> <li>STOT - RE : Specific Target Organ Toxicity - Repeated Exposure.</li> <li>UFI : Unique Formula Identifier.</li> </ul>
Training advice	: Users of breathing apparatus must be trained. Ensure operators understand the toxicity hazard.
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. 2 (Inhalation:gas)	Acute toxicity (inhalation:gas) Category 2
Acute Tox. 4 (Inhalation:gas)	Acute toxicity (inhalation:gas) Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Flam. Gas 1A	Flammable gases, Category 1A
H220	Extremely flammable gas.
H280	Contains gas under pressure; may explode if heated.
H330	Fatal if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
Press. Gas (Liq.)	Gases under pressure : Liquefied gas
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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