

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

20 ppm Carbon Monoxide in Air

Date of issue: 02/02/2017 Supersedes: SDS reference: 20 ppm Carbon Monoxide in Air

Revision date:

Version: 1.0



Warning

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

1.1. Product identifier	
Trade name	: 20 ppm Carbon Monoxide in Air
SDS no	: 20 ppm Carbon Monoxide in Air
1.2. Relevant identified uses of the substance	e or mixture and uses advised against
Relevant identified uses	: Industrial and professional. 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	: Calgaz Ltd
	Units 1 + 2 Speedwell Road Parkhouse Industrial Estate
	ST5 7RG Newcastle Under Lyme UNITED KINGDOM
	+44 (0) 1782 566 897
	www.calgaz.com
	info@calgaz.com (not 24hr)
1.4. Emergency telephone number	
Emergency telephone number	: Tel 24hr (EU): +44 (0) 1235 239670

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 ga	s H280
2.2. Label elements		
Labelling according to R	egulation (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 wel	-ventilated place.
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2.3. Other hazards

: None.

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]
Nitrogen	(CAS No) 7727-37-9 (EC No) 231-783-9 (EC Index No) (REACH-no) *1	78.9984	Press. Gas (Comp.), H280
Oxygen	(CAS No) 7782-44-7 (EC No) 231-956-9 (EC Index No) 008-001-00-8 (REACH-no) *1	20.9996	Ox. Gas 1, H270 Press. Gas (Comp.), H280
Carbon monoxide	(CAS No) 630-08-0 (EC No) 211-128-3 (EC Index No) 006-001-00-2 (REACH-no) 01-2119480165-39	0.002	Flam. Gas 1, H220 Press. Gas (Comp.), H280 Acute Tox. 3 (Inhalation:gas), H331 Repr. 1A, H360D STOT RE 1, H372

Full text of H-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.

*2: Registration deadline not expired.

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

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	: Adverse effects not expected from this product.			
- Ingestion	: Ingestion is not considered a potential route of exposure.			
4.2. Most important symptoms and effects, both acute and delayed				
	: Refer to section 11.			

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

: None.

SECTION 5: Fire-fighting measures

5.1. Extinguishing media



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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures		
	: Act in accordance with local emergency plan. Stay upwind.	
6.2. Environmental precautions		
	: None.	
6.3. Methods and material for containment and	d cleaning up	
	: None.	
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	: 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.
	Use only oxygen approved lubricants and oxygen approved sealings.
	Avoid suck back of water, acid and alkalis.
	Do not breathe gas.
	Avoid release of product into atmosphere.

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Safe handling of the gas receptacle	: Refer to supplier's container handling instructions. Do not allow backfeed into the container.
	Protect cylinders 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 cylinder 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 cylinder contents.
	Suck back of water into the container must be prevented.
	Open valve slowly to avoid pressure shock.
7.2. Conditions for safe storage, including	ng 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

Carbon monoxide (630-08-0)

	550-00-0)		
OEL : Occupational E	Exposure Limits		
Austria	TWA (AT) OEL 8h [mg/m ³]	33 mg/m ³	
	TWA (AT) OEL 8h [ppm]	30 ppm	
	STEL (AT) OEL 15min [mg/m ³]	66 mg/m³	
	STEL (AT) OEL 15min [ppm]	60 ppm	
Belgium	TWA (BE) OEL 8h [mg/m3]	29 mg/m ³	
	TWA (BE) OEL 8h [ppm]	25 ppm	
Bulgaria	TWA (BG) OEL 8h [mg/m ³]	40 mg/m ³	
	STEL (BG) OEL 15min [mg/m ³]	200 mg/m ³	
Estonia	TWA (EE) OEL 8h [mg/m ³]	25 mg/m ³	
	TWA (EE) OEL 8h [ppm]	20 ppm	
	STEL (EE) OEL 15min [mg/m ³]	120 mg/m ³	
	STEL (EE) OEL 15min [ppm]	100 ppm	
France	TWA (FR) OEL 8h [mg/m ³]	55 mg/m ³	



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	TWA (FR) OEL 8h [ppm]	50 ppm	
Germany	TWA (DE) OEL 8h [mg/m3] TRGS 900	35 mg/m ³	
	TWA (DE) OEL 8h [ppm] TRGS 900	30 ppm	
Greece	TWA (GR) OEL 8h [mg/m³]	55 mg/m ³	
	TWA (GR) OEL 8h [ppm] STEL (GR) OEL 15min [mg/m ³]	50 ppm 330 mg/m ³	
	STEL (GR) OEL 15min [ppm]	300 ppm	
ACGIH	ACGIH TWA (ppm)	25 ppm	
Latvia	TWA (LV) OEL 8h [mg/m ³]	20 mg/m ³	
Slovenia	TWA (SL) OEL 8h [mg/m ³]	35 mg/m ³	
	TWA (SL) OEL 8h [ppm]	30 ppm	
Spain	TWA (ES) OEL 8h [mg/m3]	29 mg/m ³	
	TWA (ES) OEL 8h [ppm]	25 ppm	
	NotesNotes	TR1A (cuando las pruebas utilizadas para la clasificación procedan principalmente de datos en humanos), VLB® (Agente químico que tiene Valor Límite Biológico específico en este documento.)	
Switzerland	STEL (CH) OEL 15min [mg/m ³]	35 mg/m ³	
	STEL (CH) OEL 15min [ppm]	30 ppm	
	TWA (CH) OEL 8h [mg/m ³] TWA (CH) OEL 8h [ppm]	35 mg/m ³ 30 ppm	
	Remark (CH)	15 min	
Netherlands	MAC TWA 8H (NL) [mg/m ³]	29 mg/m ³	
United Kingdom	WEL - LTEL - UK [mg/m ³]	35 mg/m ³	
-	WEL - LTEL - UK [ppm]	30 ppm	
	WEL - STEL - UK [mg/m ³]	232 mg/m ³	
	WEL - STEL - UK [ppm]	200 ppm	
	Remark (WEL)	BMGV (Biological monitoring guidance values are listed in Table 2)	
Czech Republic	TWA (CZ) OEL 8h [mg/m ³]	30 mg/m ³	
·	TWA (CZ) OEL 8h [ppm]	26.2 ppm	
	STEL (CZ) OEL 15min [mg/m ³]	150 mg/m ³	
	STEL (CZ) OEL 15min [ppm]	131 ppm	
	Remark (CZ)	P	
Denmark	TWA (DK) OEL 8h [mg/m ³]	29 mg/m ³	
	TWA (DK) OEL 8h [ppm]	25 ppm	
Finland	TWA (FI) OEL 8h [mg/m ³]	35 mg/m ³	
	TWA (FI) OEL 8h [ppm]	30 ppm	
	STEL (FI) OEL 15min [mg/m ³]	87 mg/m³	
	STEL (FI) OEL 15min [ppm]	75 ppm	
Hungary	TWA (HU) OEL 8h [mg/m3]	33 mg/m ³	
	STEL (HU) OEL 15min [mg/m3]	66 mg/m ³	
	Megjegyzések (HU)	II.1.	
Ireland	OEL (IE)-(8-hour reference period) [mg/m3]	23 mg/m ³	
	OEL (IE)-(8-hour reference period) [ppm]	20 ppm	
	OEL (IE)-(15min reference period) [mg/m3]	115 mg/m ³	
	OEL (IE)-(15min reference period) [ppm]	100 ppm	
	Notes (IE)	Repr1A	
Lithuania	TWA (LT) OEL 8h [mg/m3]	40 mg/m ³	
	TWA (LT) OEL 8h [ppm]	35 ppm	
	STEL (LT) OEL 15min [mg/m3]	120 mg/m ³	
	STEL (LT) OEL 15min [ppm]	100 ppm	
Norway	TWA (NO) OEL 8h [mg/m ³]	29 mg/m ³	
	TWA (NO) OEL 8h [ppm]	25 ppm	



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Poland	TWA (PL) OEL 8h [mg/m ³]			23 mg/m³	
	15min [mg/m³]		117 mg/m ³		
Romania	TWA (RO) OEL 8h [mg/m ³]			20 mg/m ³	
	TWA (RO) OEL 8	3h [ppm]		17.5 ppm	
	STEL (RO) OEL	15min [mg/m ³]		30 mg/m ³	
Slovakia	STEL (RO) OEL	sible exposure lim	it avorage ⁹ h	26 ppm 35 mg/m ³	
Siovakia	(SK) [mg/m ³]	sible exposure lim	it, average, on	35 mg/m-	
	Maximum permissible exposure limit, av (SK) [ppm]			30 ppm	
Sweden	TWA (SV) OEL 8	h [mg/m³]		40 mg/m ³	
	TWA (SV) OEL 8	h [ppm]		35 ppm	
	STEL (SV) OEL	15min [mg/m ³]		120 mg/m ³	
	STEL (SV) OEL	15min [ppm]		100 ppm	
Portugal	TWA (PT) OEL 8	h [ppm]		25 ppm	
Nitrogen (7727-37-9)					
OEL : Occupational Expo	osure Limits				
Belgium	Remark (BE)			A	
Spain	NotesNotes			b (Asfixiantes simples. Ciertos gases y vapore presentes en el aire actúan desplazando al ox disminuyendo su concentración en el aire, sin toxicológico. Estas sustancias no tienen un va ambiental asignado y el único factor limitador o concentración viene dado por el oxígeno dispo el aire, que debe ser al menos del 19,5 % de C equivalente a nivel del mar. Este valor proporo una cantidad adecuada de oxígeno para la ma los trabajos realizados, incluyendo un margen seguridad.)	ígeno y efecto lor límite de la onible en D2 siona ayoría de
Ireland	Notes (IE)			Asphx	
Carbon monoxide (630					
DNEL: Derived no effect Acute - local effects, i	, ,		100 nnm		
Acute - systemic effe			100 ppm 100 ppm		
Long-term - local effe			20 ppm		
Long-term - systemic			20 ppm		
DNEL (Derived-No Effec	t Level)	: None establis	hed.		
PNEC (Predicted No-Effe	ect Concentration)	: None establis	shed.		
8.2. Exposure controls					
8.2.1. Appropriate engi	neering controls				
			-	al exhaust ventilation.	
		Systems under	pressure should	e regularily checked for leakages.	
-		Ensure exposu	re is below occupa	tional exposure limits (where available).	
		Consider the us	se of a work permi	system e.g. for maintenance activities.	
8.2.2. Individual protect	tion measures, e.g. per				
		A risk assessm related to the u following recorr	ent should be con se of the product a mendations shoul	ducted and documented in each work area to asses nd to select the PPE that matches the relevant risk d be considered: ed EN/ISO standards should be selected.	
			asses with side shi 66 - Personal eye-	elds. protection - specifications.	
Skin protection					
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- Hand protection	:	Wear working gloves when handling gas containers. Standard EN 388 - Protective gloves against mechanical risk.
- 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. Gas filters do not protect against oxygen deficiency. Standard EN 14387 - Gas filter(s), combined filter(s) and full face mask - EN 136.
Thermal hazards	:	None in addition to the above sections.
8.2.3. Environmental exposure controls		None necessary
	-	Standard EN 14387 - Gas filter(s), combined filter(s) and full face mask - EN 136.

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	: Mixture contains one or more component(s) which have the following colour(s): Colourless.
Odour	: Odourless.
Odour threshold	: Odour threshold is subjective and inadequate to warn of overexposure.
рН	: 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.
Evaporation rate	: Not applicable for gases and gas mixtures.
Flammability (solid, gas)	: Non flammable.
Explosive limits	[:] Non flammable.
Vapour pressure [20°C]	: Not applicable.
Vapour pressure [50°C]	: Not applicable.
Vapour density	: Not applicable.
Relative density, gas (air=1)	: Lighter or similar to air.
Partition coefficient n-octanol/water (Log Kow)	: Not applicable for gas mixtures.
Auto-ignition temperature	: Non flammable.
Decomposition temperature	: Not applicable.
Viscosity	: No reliable data available.
Explosive properties	: Not applicable.
Oxidising properties	: Not applicable.
9.2. Other information	
Molar mass	: Not applicable for 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	
40.2. Dessibility of bereadous resulting	: Stable under normal conditions.
10.3. Possibility of hazardous reactions	: Refer to section 10.1 on Reactivity.
10.4. Conditions to avoid	
	: Refer to Section 10 on Incompatible Materials.
10.5. Incompatible materials	
	: Consult supplier(s) of these materials for specific recommendations.
	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 toxicological effects

Acute toxicity	: Classification criteria are not met.
Carbon monoxide (630-08-0)	
LC50 inhalation rat (ppm)	1880 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.
Toxic for reproduction : Fertility	: No known effects from this product.
Toxic for reproduction : unborn child	: Classification criteria are not met.
STOT-single exposure	: No known effects from this product.
STOT-repeated exposure	: Classification criteria are not met.
Aspiration hazard	: Not applicable for gases and gas mixtures.

SECTION 12: Ecological information

12.1. Toxicity

Assessment	: No ecological damage caused by this product.
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.
Carbon monoxide (630-08-0)	
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.

EN (English)



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 assessme	ent
Assessment	: Not classified as PBT or vPvB.
12.6. 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 considera	ations
13.1. Waste treatment methods	
	May be vented to atmosphere in a well ventilated place.
	Return unused product in original cylinder to supplier.
List of hazardous waste codes (from Commission Decision 2001/118/EC)	: 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

14.1. UN	number
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UN-No.	: 1956
14.2. UN proper shipping name	
Transport by road/rail (ADR/RID)	COMPRESSED GAS, N.O.S. (Nitrogen, Oxygen MIXTURE)
Transport by air (ICAO-TI / IATA-DGR)	Compressed gas, n.o.s. (Nitrogen, Oxygen MIXTURE)
Transport by sea (IMDG)	COMPRESSED GAS, N.O.S. (Nitrogen, Oxygen MIXTURE)
14.3. Transport hazard class(es)	
Labelling	
	2.2 : Non-flammable, non-toxic gases.
Transport by road/rail (ADR/RID)	
Class	: 2
Classification code	: 1A
Hazard identification number	: 20
Tunnel Restriction	: E - Passage forbidden through tunnels of category E

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



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Class / Div. (Sub. risk(s))	: 2.2
Transport by sea (IMDG)	
Class / Div. (Sub. risk(s))	: 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	
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)	: P200
Transport by air (ICAO-TI / IATA-DGR)	
Passenger and Cargo Aircraft	: 200.
Cargo Aircraft only	: 200.
Transport by sea (IMDG)	: P200
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 cylinder 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. Transport in bulk according to Annex II of Marpol and the IBC Code

: Not applicable.

SECTION 15: Regulatory information

<u>15.1. Safety, health and environmental regu</u> EU-Regulations	lations/legislation specific	for the substance or mixture	
Restrictions on use	: None.		
Seveso Directive : 2012/18/EU (Seveso III)	: Not covered.		
National regulations			
National legislation	: Ensure all national/loca	I regulations are observed.	
Water hazard class (WGK)	: nwg - Non-hazardous t	o water	
15.2. Chemical safety assessment			
Calgaz Ltd Units 1 + 2 Speedwell Road Parkhouse Industrial Estate ST5 7RG Newcastle Under Lyme UNITED KINGDOM	EN (English)	SDS Ref.: 20 ppm Carbon Monoxide in Air	10/12



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

SECTION 16: Other information	on
Indication of changes	: Revised safety data sheet in accordance with commission regulation (EU) No N°2015/830.
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
Training advice	: None.
Further information	 Classification using data from databases maintained by the European Industrial Gases Association (EIGA).
	Classification in accordance with calculation methods of regulation (EC) 1272/2008 CLP.

Full text of H- and EUH-statements

Acute Tox. 3 (Inhalation:gas)	Acute toxicity (inhalation:gas) Category 3
Flam. Gas 1	Flammable gases, Category 1
Ox. Gas 1	Oxidising Gases, Category 1
Press. Gas (Comp.)	Gases under pressure : Compressed gas
Repr. 1A	Reproductive toxicity, Category 1A
STOT RE 1	Specific target organ toxicity — Repeated exposure, Category 1
H220	Extremely flammable gas
H270	May cause or intensify fire; oxidizer
H280	Contains gas under pressure; may explode if heated
H331	Toxic if inhaled
H360D	May damage the unborn child
H372	Causes damage to organs through prolonged or repeated exposure

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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