**Air Liquide** 

## SAFETY DATA SHEET

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Revised edition no : 7.0 Revision date : 2024-02-02

Supersedes version of : 2023-01-24

## NOXAL 7, ARCAL PLASMA 64

NOAL\_1037 UFI: Y1V2-60NY-X008-K02P

Country : SE / Language : EN

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

### 1.1. Product identifier

Trade name	: NOXAL 7, ARCAL PLASMA 64
SDS no	: NOAL_1037
	UFI: Y1V2-60NY-X008-K02P

### 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.
	Industrial and professional use for chemical analysis, calibration, (routine) quality control,
	laboratory use, under controlled conditions.
	Contact supplier for more information on uses.
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

#### 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	

H221 H280

## **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

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

Physical hazards	Flammable gases, Category 1B
	Gases under pressure : Compressed gas

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	.,	UFI: Y1V2-60NY-X008-
		K02P
		Country : SE / Language : EN
2.2. Label elements		
Labelling according to Regulation (EC)	No. 1272/2008 [CLP]	
Hazard pictograms (CLP)		
	July	
	GHS02 GHS04	
Signal word (CLP)	: Danger	
Hazard statements (CLP)	: H221 - Flammable gas.	
	H280 - Contains gas under pressure; may explod	e if heated.
Precautionary statements (CLP)		
- Prevention	: P210 - Keep away from heat, hot surfaces, spark	s, open flames and other ignition sources.
2	No smoking.	
- Response	: P377 - Leaking gas fire: Do not extinguish, unless	
- Storage	P381 - In case of leakage, eliminate all ignition so P403 - Store in a well-ventilated place.	burces.
- Storage	. F403 - Store in a weil-ventilateu place.	
2.3. Other hazards		
	None.	
	Not classified as PBT or vPvB.	
	Not classified as PBT of VPVB.	

## **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]
Argon	CAS-No.: 7440-37-1 EC-No.: 231-147-0 EC Index-No.: REACH-no: *1	65	Press. Gas (Comp.), H280
Hydrogen	CAS-No.: 1333-74-0 EC-No.: 215-605-7 EC Index-No.: 001-001-00-9 REACH-no: *1	35	Flam. Gas 1A, H220 Press. Gas (Comp.), H280

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.

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		Country : SE / Language : EN
SECTION 4: First aid measu	ires	
4.1. Description of first aid measur	es	
Inhalation	<ol> <li>Remove victim to uncontaminated area wearing se victim warm and rested. Call a doctor. Perform can stopped.</li> </ol>	
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 exp	oosure.
4.2. Most important symptoms and	effects, both acute and delayed	
	See section 11.	
4.3. Indication of any immediate m	edical attention and special treatment needed	
	None.	
SECTION 5: Firefighting me	asures	
5.1. Extinguishing media		
- Suitable extinguishing media	: Water spray or fog.	
Suitable extinguishing media	: Carbon dioxide.	
Suitable extinguishing media Unsuitable extinguishing media	: Carbon dioxide. Do not use water jet to extinguish.	
- Suitable extinguishing media - Unsuitable extinguishing media 5.2. Special hazards arising from t	: Carbon dioxide. Do not use water jet to extinguish. he substance or mixture	
Suitable extinguishing media Unsuitable extinguishing media 5.2. Special hazards arising from t Specific hazards	: Carbon dioxide. Do not use water jet to extinguish. he substance or mixture : Exposure to fire may cause containers to rupture/e	explode.
Suitable extinguishing media Unsuitable extinguishing media 5.2. Special hazards arising from t Specific hazards	: Carbon dioxide. Do not use water jet to extinguish. he substance or mixture	explode.
<ul> <li><u>5.1. Extinguishing media</u></li> <li>Suitable extinguishing media</li> <li>Unsuitable extinguishing media</li> <li><u>5.2. Special hazards arising from t</u></li> <li>Specific hazards</li> <li>Hazardous combustion products</li> <li><u>5.3. Advice for firefighters</u></li> </ul>	: Carbon dioxide. Do not use water jet to extinguish. he substance or mixture : Exposure to fire may cause containers to rupture/e	explode.
- Suitable extinguishing media - Unsuitable extinguishing media <u>5.2. Special hazards arising from t</u> Specific hazards Hazardous combustion products	: Carbon dioxide. Do not use water jet to extinguish. he substance or mixture : Exposure to fire may cause containers to rupture/e	bunding fire. Exposure to fire and heat ool endangered receptacles with water used in emergency cases from entering f possible.

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.		
	Stay upwind. See section 8 of the SDS for more information on personal protective equipment		
For emergency responders	: See section 5.3 of the SDS for more information.		

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6.2. Environmental precautions			
	Try to stop release.		
6.3. Methods and material for co	ainment and cleaning up		
	Ventilate area.		
6.4. Reference to other sections			
	See also sections 8 and 13.		
SECTION 7: Handling and	torago		
	torage		
7.1. Precautions for safe handlin			
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 bygiene and safety	
	procedures.		
	Only experienced and properly instructed persor	s 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.		
	Assess the risk of potentially explosive atmosphered	eres and the need for explosion-proof	
	equipment.		
	Purge air from system before introducing gas. Take precautionary measures against static disc	harge	
	Keep away from ignition sources (including statio	-	
	Consider the use of only non-sparking tools.		
Cofe handling of the nee recenteel	Ensure equipment is adequately earthed.	_	
Safe handling of the gas receptacle	<ol> <li>Refer to supplier's container handling instruction Do not allow backfeed into the container.</li> </ol>	5.	
	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 co	atainar has been accurat against either a	
	wall or bench or placed in a container stand and	Ū.	
	If user experiences any difficulty operating valve	-	
	Never attempt to repair or modify container valve	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 Replace valve outlet caps or plugs and containe		
		sape where supplied as soon as contailler	
	is disconnected from equipment.		
	is disconnected from equipment. Close container valve after each use and when e	empty, even if still connected to equipment.	
	Close container valve after each use and when e Never attempt to transfer gases from one cylinde	er/container to another.	
	Close container valve after each use and when e Never attempt to transfer gases from one cylinde Never use direct flame or electrical heating device	er/container to another. ses to raise the pressure of a container.	
	Close container valve after each use and when e Never attempt to transfer gases from one cylinde	er/container to another. ses to raise the pressure of a container.	
	Close container valve after each use and when e Never attempt to transfer gases from one cylinde Never use direct flame or electrical heating devic Do not remove or deface labels provided by the	er/container to another. Supplier for the pressure of a container. Supplier for the identification of the content	

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7.2. Conditions for safe storage, incluent		
	Observe all regulations and local requirements reg Containers should not be stored in conditions likel Container valve guards or caps should be in place Containers should be stored in the vertical position from falling over. Stored containers should be periodically checked Keep container below 50°C in a well ventilated pla Store containers in location free from fire risk and Keep away from combustible materials. Segregate from oxidant gases and other oxidants All electrical equipment in the storage areas shoul potentially explosive atmosphere.	y to encourage corrosion. an and properly secured to prevent them for general condition and leakage. ace. away from sources of heat and ignition. in store.
7.3. Specific end use(s)		
	None.	
	None.	
SECTION 8: Exposure contro	ls/personal protection	
8.1. Control parameters		
DEL (Occupational Exposure Limits)	: None available.	
DNEL (Derived-No Effect Level)	: None available.	
PNEC (Predicted No-Effect Concentration	on) : None available.	
8.2. Exposure controls		
8.2.1. Appropriate engineering contro	bls	
	Provide adequate general and local exhaust venti Product to be handled in a closed system. Systems under pressure should be regularily che Gas detectors should be used when flammable ga Consider the use of a work permit system e.g. for	cked for leakages. ases/vapours may be released.
8.2.2. Individual protection measures	, e.g. personal protective equipment	
	A risk assessment should be conducted and docu risks related to the use of the product and to selec The following recommendations should be consid PPE compliant to the recommended EN/ISO stand	t the PPE that matches the relevant risk. ered:
<ul> <li>Eye/face protection</li> </ul>	: Wear safety glasses with side shields. Standard EN 166 - Personal eye-protection - spec	ifications
Skin protection		
- Hand protection	: Wear working gloves when handling gas containe Standard EN 388 - Protective gloves against mecl	
- Other	: Consider the use of flame resistant anti-static safe	

Standard EN ISO 14116 - Limited flame spread materials. Standard EN 1149-5 - Protective clothing: Electrostatic properties.

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

Wear safety shoes while handling containers.

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		K02P	
		Country : SE / Language : EN	
Respiratory protection	<ul> <li>Country : SE / Language</li> <li>Standard EN 137 - Self-contained open-circuit compressed air breathing apparatus wi face mask.</li> <li>When indicated by a risk assessment, Respiratory Protective Equipment must be user 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 selected RPD.</li> <li>Self contained breathing apparatus is recommended, where unknown exposure may be expected, e.g. during maintenance activities on installation systems.</li> <li>None necessary.</li> <li>None in addition to the above sections.</li> </ul>		
8.2.3. Environmental exposure co	ntrols		
	Refer to local regulations for restriction of emissions to specific methods for waste gas treatment.	the atmosphere. See section 13 for	

## SECTION 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

#### Appearance

Appearance	
- Physical state at 20°C / 101.3kPa	: Gas
- Colour	: Colourless
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	: Extremely flammable gas
Explosive limits	: Flammability range not available.
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 for gases and gas mixtures.
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 :
	Hydrogen: 1.6 mg/l     Argon: 67.3 mg/l
Partition coefficient n-octanol/water (Log Kow)	: Not applicable for gas mixtures.
Auto-ignition temperature	: Not known.
Decomposition temperature	: Not applicable.
Viscosity, kinematic	: No reliable data available.
Particle characteristics	: Not applicable for gases and gas mixtures.
9.2. Other information	
9.2.1. Information with regard to physical haza	rd classes
Explosive properties	: Not applicable.
	Net explicitly

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.	

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SECTION 10: Stability and	I reactivity	
10.1. Reactivity		
	No reactivity hazard other than the effects describe	ed in sub-sections below.
10.2. Chemical stability		
	Stable under normal conditions.	
10.3. Possibility of hazardous re	actions	
	Can form explosive mixture with air.	
	May react violently with oxidants.	
Reactivity	<ul> <li>This mixture contains components with the followir with air. May react violently with oxidants.</li> </ul>	ng reactivity : Can form explosive mixture
10.4. Conditions to avoid		
	Keep away from heat, hot surfaces, sparks, open f smoking. Avoid moisture in installation systems.	lames and other ignition sources. No
10.5. Incompatible materials		
	Air, Oxidisers. For additional information on compatibility refer to	ISO 11114.
10.6. Hazardous decomposition	products	
	Under normal conditions of storage and use, haza be produced.	rdous decomposition products should not

## SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008		
Acute toxicity	: No toxicological effects from this product.	
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	: 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.	
11.2. Information on other hazards		
Other information	: The substance/mixture has no endocrine disrupting properties.	

SECTION 12: Ecological information	tion
12.1. Toxicity	
Assessment	: No ecological damage caused by this product.
EC50 48h - Daphnia magna [mg/l]	: No data available.

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EC50 72h - Algae [mg/l]	: No data available.	
LC50 96 h - Fish [mg/l]	: No data available.	
12.2. Persistence and degradability		
Assessment	: No ecological damage caused by this product.	
12.3. Bioaccumulative potential		
Assessment	: No data available.	
<u>12.4. Mobility in soil</u>		
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 assess	sment	
Assessment	: Not classified as PBT or vPvB.	
12.6. Endocrine disrupting properties		
	The substance/mixture has no endocrine disruptin	g properties.
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.
	Do not discharge into areas where there is a risk of forming an explosive mixture with air.
	Waste gas should be flared through a suitable burner with flash back arrestor.
	Do not discharge into any place where its accumulation could be dangerous.
	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.
List of hazardous waste codes (from Commission	: 16 05 04 *: Gases in pressure containers (including halons) containing hazardous
Decision 2000/532/EC as amended)	substances.
13.2. Additional information	
	External treatment and disposal of waste should comply with applicable local and/or

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

## **SECTION 14: Transport information**

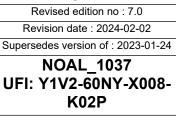
## 14.1. UN number or ID number

In accordance with ADR / RID / IMDG / IATA / ADN UN-No. : 1954

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### 14.2. UN proper shipping name

Transport by road/rail (ADR/RID) Transport by air (ICAO-TI / IATA-DGR) Transport by sea (IMDG)

### 14.3. Transport hazard class(es)

## Labelling

### Transport by road/rail (ADR/RID) Class Classification code

Classification code Hazard identification number Tunnel Restriction

### Transport by air (ICAO-TI / IATA-DGR) Class / Div. (Sub. risk(s))

## Transport by sea (IMDG)

Class / Div. (Sub. risk(s)) Emergency Schedule (EmS) - Fire Emergency Schedule (EmS) - Spillage

## 14.4. Packing group

Transport by road/rail (ADR/RID) Transport by air (ICAO-TI / IATA-DGR) Transport by sea (IMDG)

## 14.5. Environmental hazards

Transport by road/rail (ADR/RID) Transport by air (ICAO-TI / IATA-DGR) Transport by sea (IMDG)

## 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

- : COMPRESSED GAS, FLAMMABLE, N.O.S. (Hydrogen, Argon)
- : Compressed gas, flammable, n.o.s. (Hydrogen, Argon)
- : COMPRESSED GAS, FLAMMABLE, N.O.S. (Hydrogen, Argon)



2.1 : Flammable gases.

- : 2
- : 1F
- : 23
- : B/D Tank carriage: Passage forbidden through tunnels of category B, C, D and E. Other carriage: Passage forbidden through tunnels of category D and E
- : 2.1
- : 2.1
- : F-D
- : S-U
- : Not established.
- : Not established.
- : Not established.
- : None.
- : None.
- : None.
- : P200
- : Forbidden.
- : 200.
- : P200
- : 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.

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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)	: Covered.	
National regulations		
Ensure all national/local regulations are observed.		
Germany		
Water hazard class (WGK)	: WGK nwg, Non-hazardous to water (Classification according to AwSV, Annex 1)	
National Rules and Recommendations	<ul> <li>[German regulations] BetriebssicherheitsV mit TRBSen insbesondere TRBS 3145 / TRGS 725 Ortsbewegliche Druckgasbehälter", TRBS 2141, BGRegel 500 Teil 2.33: "Umgang mit Gasen", GefahrstoffV mit Technischen Regeln Gefährliche Stoffe TRGS insbesondere TRGS 407 "Tätigkeiten mit Gasen - Gefährdungsbeurteilung", TRGS 400, 500, 510, 900." BGR 104, TRBS 2152.</li> </ul>	
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	
Denmark		
Danish National Regulations	: Young people below the age of 18 years are not allowed to use the product	
15.2. Chemical safety assessment		
	A CSA does not need to be carried out for this product.	

## SECTION 16: Other information

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

Section	Changed item	Change	Comments
1.3	Company	Modified	Version 7.0. New address in Sweden. (This change only applies to the Swedish (SE) version of this SDS)

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Abbreviations and acronyms	<ul> <li>ATE - Acute Toxicity Estimate</li> <li>CLP - Classification Labelling Packaging Regulation</li> <li>REACH - Registration, Evaluation, Authorisation at (EC) No 1907/2006</li> <li>EINECS - European Inventory of Existing Comme</li> <li>CAS# - Chemical Abstract Service number</li> <li>PPE - Personal Protection Equipment</li> <li>LC50 - Lethal Concentration to 50 % of a test poping</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</li> <li>CSA - Chemical Safety Assessment</li> <li>EN - European Agreement concerning the International Air Transport Association</li> <li>IMDG code - International Maritime Dangerous G</li> <li>RID - Regulations concerning the International Ca</li> <li>WGK - Water Hazard Class</li> <li>STOT - RE : Specific Target Organ Toxicity - Report</li> </ul>	and Restriction of Chemicals Regulation rcial Chemical Substances ulation e Exposure national Carriage of Dangerous Goods by oods rriage of Dangerous Goods by Rail eated Exposure
Training advice Further information	<ul> <li>Ensure operators understand the flammability haz</li> <li>Classification using data from databases maintain Association (EIGA). Data is maintained in EIGA do Guide', downloadable at : http://www.eiga.eu.</li> <li>Classification in accordance with the procedures a (EC) 1272/2008 (CLP).</li> </ul>	ed by the European Industrial Gases oc 169 : 'Classification and Labelling

Full text of H- and EUH-statements		
Flam. Gas 1A     Flammable gases, Category 1A		
Flam. Gas 1B	Flammable gases, Category 1B	
H220	Extremely flammable gas.	
H221	Flammable gas.	
H280	Contains gas under pressure; may explode if heated.	
Press. Gas (Comp.)	Gases under pressure : Compressed gas	

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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