Air Liquide

SAFETY DATA SHEET

Page : 1/10 Revised edition no : 5.0

Revision date : 2023-01-20 Supersedes version of : 2021-06-16

Nitrogen (refrigerated)

NOAL_0089B Country : FI / Language : EN

1.1. Product identifier	
Trade name	 Nitrogen (refrigerated), Aligal 1 Liquid, Aligal Drink 1 Liquid, Aligal Freeze 1 Liquid, Alphagaz 1 Nitrogen LGC, Lasal 1 Liquid, Medical Nitrogen Liquid, Lasal 2001 Liquid, Nitrogen LGC, Nitrogen HG Liquid, Phargalis 1 Liquid
SDS no	: NOAL_0089B
Other means of identification	: Nitrogen (refrigerated)
	CAS-No. : 7727-37-9
	EC-No. : 231-783-9
	EC Index-No. :
REACH registration No	: Listed in Annex IV / V REACH, exempted from registration.
Chemical formula	: N2
1.2. Relevant identified uses of the subst	ance or mixture and uses advised against
Relevant identified uses	: Industrial and professional uses. Perform risk assessment prior to use.
	Test gas/Calibration gas.
	Laboratory use.
	Purge gas, diluting gas, inerting gas.
	Use for manufacture of electronic/photovoltaic components.
	Shield gas for welding processes.
	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 d	ata sheet
Company identification	
Supplier	
AIR LIQUIDE FINLAND OY Yrttipellontie 1 C 3 krs.	
90230 OULU - FINLAND	
T +353 20 779 0580	
info.finland@airliquide.com	
E-Mail address (competent person)	: eunordic-sds@airliquide.com
1.4. Emergency telephone number	
Emergency telephone number	: FI: Myrkytystietokeskus: 09-471 977 (suora) tai 09-4711 (vaihde) / EN: Poison Informatio Centre: 09-471 977 (direct) or 09-4711 (switchboard) Availability
	(24 / 7)

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 : Refrigerated liquefied gas



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2.2. Label elements

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

Hazard pictograms (CLP)	
Circle of the stand (CLD)	GHS04
Signal word (CLP)	: Warning
Hazard statements (CLP)	: H281 - Contains refrigerated gas; may cause cryogenic burns or injury.
Precautionary statements (CLP)	
- Prevention	 P282 - Wear cold insulating gloves and either face shield or eye protection. cold insulating gloves, face shield, eye protection. P282 - Wear cold insulating gloves and either face shield or eye protection.
- Response	 P336+P315 - Thaw frosted parts with lukewarm water. Do not rub affected area. Get immediate medical advice. P336+P315 - Thaw frosted parts with lukewarm water. Do not rub affected area. Get immediate medical advice/attention.
- Storage	: P403 - Store in a well-ventilated place.
2.3. Other hazards	
	Asphyxiant in high concentrations.
	Not classified as PBT or vPvB.
	The substance/mixture has no endocrine disrupting properties.

SECTION 3: Composition/information on ingredients

3.1. Substances

Name	Product identifier	Composition [V- %]:	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Nitrogen (refrigerated)	CAS-No.: 7727-37-9 EC-No.: 231-783-9 EC Index-No.: REACH registration No: *1	100	Press. Gas (Ref. Liq.), H281

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

Not established.

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

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

3.2. Mixtures

SECTION 4: First aid measures

4.1. Description of first aid measures - 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. - Skin contact : In case of frostbite spray with water for at least 15 minutes. Apply a sterile dressing. Obtain medical assistance. - Eye contact : Immediately flush eyes thoroughly with water for at least 15 minutes. - Ingestion : Ingestion is not considered a potential route of exposure.



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4.2. 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.

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 Specific hazards : Exposure to fire may cause containers to rupture/explode. Hazardous combustion products None 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. If leaking do not spray water onto container. Water surrounding area (from protected position) to contain fire. 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 137 - Self-contained open-circuit compressed air breathing apparatus with full face mask. Standard EN 469 - Protective clothing for firefighters. Standard - EN 659: Protective gloves for firefighters.

 and emergency procedures Act in accordance with local emergency plan. Try to stop release. Evacuate area. Ensure adequate air ventilation. Use protective clothing.
Try to stop release. Evacuate area. Ensure adequate air ventilation. Use protective clothing.
Evacuate area. Ensure adequate air ventilation. Use protective clothing.
Ensure adequate air ventilation. Use protective clothing.
Use protective clothing.
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.
Oxygen detectors should be used when asphyxiating gases may be released.
See section 5.3 of the SDS for more information.
Try to stop release.
Liquid spillages can cause embrittlement of structural materials.

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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. 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. 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 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 container. Do not remove or deface labels provided by the supplier for the id
7.2. Conditions for safe storage, including any	Open valve slowly to avoid pressure shock.
T.2. Conditions for sale storage, moluting any	
	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	
OEL (Occupational Exposure Limits)	: None available.
DNEL (Derived-No Effect Level)	: None available.
PNEC (Predicted No-Effect Concentration)	: None available.
8.2. Exposure controls	
8.2.1. Appropriate engineering controls	
	Provide adequate general and local exhaust ventilation. Systems under pressure should be regularily checked for leakages. Oxygen detectors should be used when asphyxiating gases may be released. Consider the use of a work permit system e.g. for maintenance activities.
8.2.2. Individual protection measures, e.g. pe	ersonal 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 and a face shield when transfilling or breaking transfer connections. Standard EN 166 - Personal eye-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	: Standard EN 137 - Self-contained open-circuit compressed air breathing apparatus with full face mask.
	Self contained breathing apparatus (SCBA) or positive pressure airline with mask are to be used in oxygen-deficient atmospheres. Self contained breathing apparatus is recommended, where unknown exposure may be expected, e.g. during maintenance activities on installation systems.
Thermal hazards	: None in addition to the above sections.
8.2.3. Environmental exposure controls	
	None necessary.

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 liquid.
Odour	: No odour warning properties.
	Odour threshold is subjective and inadequate to warn of overexposure.
рН	: Not applicable for gases and gas mixtures.
Melting point / Freezing point	: -210 °C
	-210 °C
Boiling point	: -196 °C
Flash point	: Not applicable for gases and gas mixtures.
Flammability	: Non flammable.
Explosive limits	: Non flammable.
Lower explosion limit	: Not available

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5		Country : FI / Language : EN	
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)	: 0.8		
Relative density, gas (air=1)	: 0.97		
Water solubility	: 20 mg/l		
Partition coefficient n-octanol/water (Log Kow)	: Not applicable for inorganic products.		
Auto-ignition temperature	: Non flammable.		
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	ard classes		
Evaluative preparties	. Natannliaghla		

Explosive properties Oxidising properties	: Not applicable. : Not applicable.
Critical temperature [°C] 9.2.2. Other safety characteristics	: -147 °C
Molar mass Evaporation rate Gas group	 28 g/mol Not applicable for gases and gas mixtures. Press. Gas (Ref. Liq.)

SECTION 10: Stability and reactivity 10.1. Reactivity No reactivity hazard other than the effects described in sub-sections below. 10.2. Chemical stability Stable under normal conditions. 10.3. Possibility of hazardous reactions None. Reactivity : None. 10.4. Conditions to avoid None under recommended storage and handling conditions (see section 7). Avoid moisture in installation systems. 10.5. Incompatible materials For additional information on compatibility refer to ISO 11114. 10.6. Hazardous decomposition products

None.

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.

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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 disruptir	ng properties.

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.
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 assessment	
Assessment	: No data available.
	Not classified as PBT or vPvB.
12.6. Endocrine disrupting properties	
	The substance/mixture has no endocrine disrupting properties.
12.7. Other adverse effects	
Other adverse effects	: Can cause frost damage to vegetation.
Effect on the ozone layer	: None.
Effect on global warming	: None.

SECTION 13: Disposal considerations		
13.1. Waste treatment methods		
List of hazardous waste codes (from Commission	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. : 16 05 05 : Gases in pressure containers other than those mentioned in 16 05 04.	
Decision 2000/532/EC as amended)		
13.2. Additional information		

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

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SECTION 14: Transport information

14.1. UN number or ID number

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

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)



Transport by road/rail (ADR/RID) Class

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)	:	P203
Transport by air (ICAO-TI / IATA-DGR)		
Passenger and Cargo Aircraft	:	202.
Cargo Aircraft only	:	202.
Transport by sea (IMDG)	:	P203

•		
	2/	

2.2 : Non-flammable, non-toxic gases.

: NITROGEN, REFRIGERATED LIQUID

: NITROGEN, REFRIGERATED LIQUID

: Nitrogen, refrigerated liquid

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:

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C/E - Tank carriage : Passage forbidden through tunnels of category C, D and E. Other carriage : Passage forbidden through tunnels of category E

- : 2.2
- : 2.2
- : F-C
- : S-V
- : Not established.
- : Not established.
- : Not established.
- : None.
- : None.
- : None.

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		Country : FI / Language : EN	
Special transport precautions	 Avoid transport on vehicles where the load space is no compartment. Ensure vehicle driver is aware of the potential hazards 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 call 	s of the load and knows what to do in is correctly fitted.	
14.7. Maritime transport in bulk according to IN	IO instruments		
	Not applicable.		
SECTION 15: Regulatory information			
	ons/legislation specific for the substance or mixture		
EU-Regulations			
Restrictions on use	: None.		
National legislation	: Ensure all national/local regulations are observed.		
National legislation Seveso Directive : 2012/18/EU (Seveso III)	Ensure all national/local regulations are observed.Not covered.		
0	-		
Seveso Directive : 2012/18/EU (Seveso III)	: Not covered.		
Seveso Directive : 2012/18/EU (Seveso III) National regulations	: Not covered.		
Seveso Directive : 2012/18/EU (Seveso III) National regulations Ensure all national/local regulations are observed.	: Not covered.	n insbesondere TRBS 3145 / TRGS 3GRegel 500 Teil 2.33: "Umgang mit liche Stoffe TRGS insbesondere	
Seveso Directive : 2012/18/EU (Seveso III) National regulations Ensure all national/local regulations are observed. Germany Water hazard class (WGK)	 Not covered. WGK nwg, Non-hazardous to water (Classification acc [German regulations] BetriebssicherheitsV mit TRBSe 725 Ortsbewegliche Druckgasbehälter", TRBS 2141, E Gasen", GefahrstoffV mit Technischen Regeln Gefähr 	n insbesondere TRBS 3145 / TRGS 3GRegel 500 Teil 2.33: "Umgang mit liche Stoffe TRGS insbesondere	
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Seveso Directive : 2012/18/EU (Seveso III) National regulations Ensure all national/local regulations are observed. Germany Water hazard class (WGK) National Rules and Recommendations Netherlands SZW-lijst van kankerverwekkende stoffen SZW-lijst van mutagene stoffen	 Not covered. WGK nwg, Non-hazardous to water (Classification acc [German regulations] BetriebssicherheitsV mit TRBSe 725 Ortsbewegliche Druckgasbehälter", TRBS 2141, E Gasen", GefahrstoffV mit Technischen Regeln Gefähr TRGS 407 "Tätigkeiten mit Gasen - Gefährdungsbeurf The substance is not listed The substance is not listed 	n insbesondere TRBS 3145 / TRGS 3GRegel 500 Teil 2.33: "Umgang mit liche Stoffe TRGS insbesondere	
Seveso Directive : 2012/18/EU (Seveso III) National regulations Ensure all national/local regulations are observed. Germany Water hazard class (WGK) National Rules and Recommendations Netherlands SZW-lijst van kankerverwekkende stoffen SZW-lijst van mutagene stoffen SZW-lijst van reprotoxische stoffen – Borstvoeding	 Not covered. WGK nwg, Non-hazardous to water (Classification acc [German regulations] BetriebssicherheitsV mit TRBSe 725 Ortsbewegliche Druckgasbehälter", TRBS 2141, E Gasen", GefahrstoffV mit Technischen Regeln Gefähr TRGS 407 "Tätigkeiten mit Gasen - Gefährdungsbeurf The substance is not listed 	n insbesondere TRBS 3145 / TRGS 3GRegel 500 Teil 2.33: "Umgang mit liche Stoffe TRGS insbesondere	
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Seveso Directive : 2012/18/EU (Seveso III) National regulations Ensure all national/local regulations are observed. Germany Water hazard class (WGK) National Rules and Recommendations Netherlands SZW-lijst van kankerverwekkende stoffen SZW-lijst van reprotoxische stoffen – Borstvoeding SZW-lijst van reprotoxische stoffen – Vruchtbaarheid	 Not covered. WGK nwg, Non-hazardous to water (Classification acc [German regulations] BetriebssicherheitsV mit TRBSe 725 Ortsbewegliche Druckgasbehälter", TRBS 2141, E Gasen", GefahrstoffV mit Technischen Regeln Gefähr TRGS 407 "Tätigkeiten mit Gasen - Gefährdungsbeurf The substance is not listed 	n insbesondere TRBS 3145 / TRGS 3GRegel 500 Teil 2.33: "Umgang mit liche Stoffe TRGS insbesondere	
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SECTION 16: Other information

Indication of changes

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

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Nitro	ogen (refrigerated)	NOAL_0089B		
		Country : FI / Language : EN		
Abbreviations and acronyms	: ATE - Acute Toxicity Estimate			
	CLP - Classification Labelling Packaging Regulation	on; Regulation (EC) No 1272/2008		
	REACH - Registration, Evaluation, Authorisation a	and Restriction of Chemicals Regulation		
	(EC) No 1907/2006			
	EINECS - European Inventory of Existing Comme	rcial Chemical Substances		
	CAS# - Chemical Abstract Service number			
	PPE - Personal Protection Equipment			
	LC50 - Lethal Concentration to 50 % of a test pop	ulation		
	RMM - Risk Management Measures			
	PBT - Persistent, Bioaccumulative and Toxic			
	vPvB - Very Persistent and Very Bioaccumulative			
	STOT- SE : Specific Target Organ Toxicity - Single	e Exposure		
	CSA - Chemical Safety Assessment			
	EN - European Standard			
	UN - United Nations			
	ADR - European Agreement concerning the Intern	ational Carriage of Dangerous Goods by		
	Road			
	IATA - International Air Transport Association			
	IMDG code - International Maritime Dangerous G			
	RID - Regulations concerning the International Ca WGK - Water Hazard Class	rriage of Dangerous Goods by Rail		
		acted Evenesure		
	STOT - RE : Specific Target Organ Toxicity - Repe UFI : Unique Formula Identifier	ealed Exposure		
Training advice	: The hazard of asphyxiation is often overlooked an	d must be stressed during operator		
	training.			
	For more guidance, refer to EIGA SL 01 "Dangers	s of Asphyxiation" downloadable at		
	http://www.eiga.eu	s of Asprijation, downloadable at		
Further information	: Classification in accordance with the procedures a	and calculation methods of Regulation		
		and calculation motiodo or regulation		

: Classification in accordance with the procedures and calculation methods of Regulation (EC) 1272/2008 (CLP).

Key literature references and sources of data are maintained in EIGA doc 169 : 'Classification and Labelling Guide', downloadable at http://www.Eiga.eu .

Full text of H- and EUH-statements	
H281	Contains refrigerated gas; may cause cryogenic burns or injury.
Press. Gas (Ref. Liq.)	Gases under pressure : Refrigerated liquefied 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.
	End of document