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Country : DK / Language : EN

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

1.1. Product identifier		
Trade name	: ARCAL 1	1
SDS no	: NOAL_10	
	UFI: 4NS2	2-10AV-C00D-2ERV
1.2. Relevant identified	uses of the substance or mixture and	<u>uses advised against</u>
Relevant identified uses	Industrial	and professional uses. Perform risk assessment prior to use. and professional use for chemical analysis, calibration, (routine) quality control, <i>r</i> use, under controlled conditions.
	-	upplier for more information on uses.
Uses advised against	: Consume	
		er than those listed above are not supported, contact your supplier for more on other uses.
1.3. Details of the supp	lier of the safety data sheet	
Company identification		
Supplier AIR LIQUIDE Denmark Høje Taastrupvej 42 2630 Taastrup - DENM/ T +45 76 25 25 25 info.denmark@airliquide	ARK	
E-Mail address (compet	ent person) : eunordic-sd	s@airliquide.com
1.4. Emergency telephone nu		ty
SECTION 2: Hazard	ds identification	
2.1. Classification of the	e substance or mixture	
Classification according	g to Regulation (EC) No. 1272/2008 [CL	_P]
Physical hazards	Flammable gases, Category 1B	H221
	Gases under pressure : Compressed	gas H280
2.2. Label elements		
Labelling according to I	Regulation (EC) No. 1272/2008 [CLP]	
Hazard pictograms (CLP)		
Signal word (CLP)	GHS0 : Danger	02 GHS04
Hazard statements (CLP)		ammable gas.
. ,		

H280 - Contains gas under pressure; may explode if heated.

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Precautionary statements (CLP)		
- Prevention	: P210 - Keep away from heat, hot surfaces, sparks No smoking.	, open flames and other ignition sources.
- Response	 P377 - Leaking gas fire: Do not extinguish, unless leak can be stopped safely. P381 - In case of leakage, eliminate all ignition sources. 	
- Storage	: P403 - Store in a well-ventilated place.	
2.3. Other hazards		
	None.	

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

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	75	Press. Gas (Comp.), H280
Helium	CAS-No.: 7440-59-7 EC-No.: 231-168-5 EC Index-No.: REACH-no: *1	20	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	5	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.

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
 : 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

See section 11.

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

None.

SECTION 5: Firefighting measures	
5.1. Extinguishing media	
 Suitable extinguishing media Unsuitable extinguishing media 	Water spray or fog.Carbon dioxide.Do not use water jet to extinguish.
5.2. Special hazards arising from the substan	ce or mixture
Specific hazards Hazardous combustion products	: Exposure to fire may cause containers to rupture/explode. : 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. Do not extinguish a leaking gas flame unless absolutely necessary. Spontaneous/explosive re-ignition may occur. Extinguish any other 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.

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 and set of the SDS for more information on personal protective equipment and set of the SDS for more information on personal protective equipment and set of the SDS for more information on personal protective equipment and set of the SDS for more information on personal protective equipment and set of the SDS for more information on personal protective equipment and set of the SDS for more information on personal protective equipment and set of the SDS for more information on personal protective equipment and set of the SDS for more information on personal protective equipment and set of the SDS for more information on personal protective equipment and set of the SDS for more information on personal protective equipment and set of the SDS for more information on personal protective equipment and set of the SDS for more information on personal protective equipment and set of the SDS for more information on personal protective equipment and set of the SDS for more information on personal protective equipment and set of the SDS for more information on personal protective equipment and set of the SDS for more information on personal protective equipment and set of the SDS for more information on personal p

For emergency responders	See section 8 of the SDS for more information on personal protective equipment : 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 cle	eaning up
	Ventilate area.
6.4. Reference to other sections	

See also sections 8 and 13.

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SECTION 7: Handling and atom	2020			
SECTION 7: Handling and stor	age			
7.1. Precautions for safe handling				
Safe use of the product	: Do not breathe gas.			
	Avoid release of product into atmosphere.	industrial burgions and safety		
	The product must be handled in accordance with good procedures.	industrial hygiene and salety		
	Only experienced and properly instructed persons sho	uld 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	le for this product, its supply pressure		
	and temperature. Contact your gas supplier if in doubt	and temperature. Contact your gas supplier if in doubt.		
	Avoid suck back of water, acid and alkalis.			
		Assess the risk of potentially explosive atmospheres and the need for explosion-proof		
	equipment.			
	Purge air from system before introducing gas.			
	Take precautionary measures against static discharge Keep away from ignition sources (including static discl			
		Consider the use of only non-sparking tools.		
		Ensure equipment is adequately earthed.		
Safe handling of the gas receptacle	: 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	When moving cylinders, even for short distances, use a cart (trolley, hand truck, etc.)		
	designed to transport cylinders.			
	Leave valve protection caps in place until the container has been secured against either a			
	wall or bench or placed in a container stand and is ready for use.			
	If user experiences any difficulty operating valve discontinue use and contact supplier.			
		Never attempt to repair or modify container valves or safety relief devices.		
		Damaged valves should be reported immediately to the supplier. Keep container valve outlets clean and free from contaminants particularly oil and water.		
	Replace valve outlet caps or plugs and container caps where supplied as soon as container			
	is disconnected from equipment.			
	Close container valve after each use and when empty, even if still connected to equipment.			
	Never attempt to transfer gases from one cylinder/container to another.			
	-	Never use direct flame or electrical heating devices to raise the pressure of a container.		
		Do not remove or deface labels provided by the supplier for the identification of the content		
	of the container.			
	Suck back of water into the container must be prevent	ed.		
	Open valve slowly to avoid pressure shock.			
7.2. Conditions for safe storage, inclu		in a stand of a sector in a		
	Observe all regulations and local requirements regard			
	Containers should not be stored in conditions likely to	encourage corrosion.		
	Container valve guards or caps should be in place.	d properly accured to provent them		
	Containers should be stored in the vertical position an from falling over.	a property secured to prevent them		
	Stored containers should be periodically checked for g	eneral condition and leakage		
	Keep container below 50°C in a well ventilated place.	general condition and leakage.		
	Store containers in location free from fire risk and awa	• • • • • •		

Store containers in location free from fire risk and away from sources of heat and ignition. Keep away from combustible materials.

Segregate from oxidant gases and other oxidants in store.

All electrical equipment in the storage areas should be compatible with the risk of a potentially explosive atmosphere.

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7.3. Specific end use(s)

None.

8.1. Control parameters	
	Manual and Malala
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. Product to be handled in a closed system. Systems under pressure should be regularily checked for leakages. Gas detectors should be used when flammable gases/vapours 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	rsonal protective equipment
• Eye/face protection	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. Wear safety glasses with side shields.
	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 high
- Other	 Consider the use of flame resistant anti-static safety clothing. Standard EN ISO 14116 - Limited flame spread materials. Standard EN 1149-5 - Protective clothing: Electrostatic properties. 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 fu face mask. When indicated by a risk assessment, Respiratory Protective Equipment must be used. Th selection of the Respiratory Protective Device (RPD) must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected RPD. Self contained breathing apparatus is recommended, where unknown exposure may be expected, e.g. during maintenance activities on installation systems. None necessary.
Thermal hazards	: None in addition to the above sections.
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.

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SECTION 0. Dhysical and shar	nicol proportion		
SECTION 9: Physical and chen	nical properties		
9.1. Information on basic physical and	chemical properties		
Appearance			
- Physical state at 20°C / 101.3kPa	: Gas		
- Colour	: Colourless		
Odour	: Odourless.		
	Odour threshold is subjective and inadequate to	o warn of overexposure.	
	: 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)			
Water solubility	: Solubility in water of component(s) of the mixtur		
	Hydrogen: 1.6 mg/l • Helium: 1.5 mg/l • Arg	gon: 67.3 mg/l	
Partition coefficient n-octanol/water (Log			
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 physic	cal hazard classes		
Explosive properties	: Not applicable.		
Oxidising properties	Not applicable.		

9.2.2. Other	safety	charact	teristics
--------------	--------	---------	-----------

1

Molar mass	: Not applicable for gas mixtures.
Evaporation rate	: Not applicable for gases and 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.
<u>10.2. Chemical stability</u>	
	Stable under normal conditions.
10.3. Possibility of hazardous reactions	
	Can form explosive mixture with air.
	May react violently with oxidants.
Reactivity	: This mixture contains components with the following reactivity : Can form explosive mixture with air. May react violently with oxidants.

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10.4. Conditions to avoid		· ·
	Keep away from heat, hot surfaces, sparks, open fi smoking.	ames and other ignition sources. No
	Avoid moisture in installation systems.	
10.5. Incompatible materials		
	Air, Oxidisers.	
	For additional information on compatibility refer to I	SO 11114.
10.6. Hazardous decomposition produ	<u>cts</u>	
	Under normal conditions of storage and use, hazar be produced.	dous decomposition products should not
SECTION 11: Toxicological inf	ormation	
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.	

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 informat	ion
<u>12.1. Toxicity</u>	
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 assessme	nt
Assessment	: Not classified as PBT or vPvB.

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12.6. Endocrine disrupting proper	ties	
	The substance/mixture has no endocrine disruptir	ng 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 con	siderations	
13.1. Waste treatment methods		
List of hazardous waste codes (from Decision 2000/532/EC as amended) <u>13.2. Additional information</u>		rner with flash back arrestor. ulation could be dangerous. ions or operating permits are not sal of Gases", downloadable at e disposal methods. oplier. ng halons) containing hazardous
	-	
SECTION 14: Transport info	ormation	
14.1. UN number or ID number		
n accordance with ADR / RID / IMD		
JN-No.	: 1954	
14.2. UN proper shipping name		
Transport by road/rail (ADR/RID)	: COMPRESSED GAS, FLAMMABLE, N.O.S. (Hyd	
Transport by air (ICAO-TI / IATA-D Transport by sea (IMDG)	GR) : Compressed gas, flammable, n.o.s. (Hydrogen, A : COMPRESSED GAS, FLAMMABLE, N.O.S. (Hyd	
14.3. Transport hazard class(es)		
Labelling		
	2.1 : Flammable gases.	
Transport by road/rail (ADR/RID)	: 2	
Classification code	: Z : 1F	
Hazard identification number	: 23	
Tunnel Restriction	· B/D - Tank carriage · Passage forbidden through t	

: 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

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

Tunnel Restriction

: 2.1

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Transport by sea (IMDG)		•
Class / Div. (Sub. risk(s))	: 2.1	
Emergency Schedule (EmS) - Fire	: F-D	
Emergency Schedule (EmS) - Spilla	ge : S-U	
14.4. Packing group		
Transport by road/rail (ADR/RID)	: Not established.	
Transport by air (ICAO-TI / IATA-DO	GR) : Not established.	
Transport by sea (IMDG)	: Not established.	
14.5. Environmental hazards		
Transport by road/rail (ADR/RID)	: None.	
Transport by air (ICAO-TI / IATA-DO	SR) : None.	
Transport by sea (IMDG)	: None.	
14.6. Special precautions for user	ſ	
Packing Instruction(s)		
Transport by road/rail (ADR/RID)	: P200	
Transport by air (ICAO-TI / IATA-DO		
Passenger and Cargo Aircraft	: Forbidden.	
Cargo Aircraft only	: 200.	
Transport by sea (IMDG)	: P200	
Special transport precautions	: Avoid transport on vehicles where the load space is not	t 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) i Ensure valve protection device (where provided) is co 	
14.7. Maritime transport in bulk a	ccording 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 : [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.

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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	toxische 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 all	owed to use the product	
Switzerland			
Storage class (LK)	: LK 2 - Liquefied or pressurized gases		
15.2. Chemical safety assessment			

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

SECTION 16: Other information	۱ <u></u>
Indication of changes	: Safety data sheet in accordance with commission regulation (EU) No 2020/878.
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 Road IATA - International Air Transport Association IMDG code - International Maritime Dangerous Goods RID - Regulations 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 STOT - RE : Specific Target Organ Toxicity - Repeated Exposure UFI : Unique Formula Identifier
Training advice Further information	 Ensure operators understand the flammability hazard. 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		
Flam. Gas 1A	Flammable gases, Category 1A	
Flam. Gas 1B	Flammable gases, Category 1B	
H220	Extremely flammable gas.	

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		Country : DK / Language : EN
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 e compatibility and safety study should be carried o 	

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