Air Liquide

SAFETY DATA SHEET

Page : 1/11

Revised edition no : 4.0 Revision date : 2023-01-23

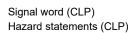
Supersedes version of : 2021-07-13

Arcal 15

NOAL_1012 UFI: 4WS2-J0E2-800V-1FH2 Country : DK / Language : EN

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

1.1. Product identifier				
Trade name	: Arcal 15, 5%H2 / AR, ALPHAGAZ MIX 5% H2/ 95% Ar, ALPHAGAZ MIX H2 5%/	AR		
SDS no	: NOAL_1012	—		
	UFI: 4WS2-J0E2-800V-1FH2			
1.2. Relevant identified u	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 laboratory use, under controlled conditions.	control		
	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 m	ore		
	information on other uses.			
1.3. Details of the suppli-	lier of the safety data sheet			
Company identification				
Supplier AIR LIQUIDE Denmark A	A/S			
Høje Taastrupvej 42				
2630 Taastrup - DENMA T +45 76 25 25 25	ARK			
info.denmark@airliquide.	3.com			
E-Mail address (compete	ent person) : eunordic-sds@airliquide.com			
1.4. Emergency telephor	one number			
Emergency telephone num	mber : 112			
	(24 / 7)			
	Availability			
SECTION 2: Hazard	ds identification			
SECTION 2: Hazard				
2.1. Classification of the				
2.1. Classification of the	e substance or mixture			
2.1. Classification of the Classification according	<u>e substance or mixture</u> g to Regulation (EC) No. 1272/2008 [CLP]			
2.1. Classification of the Classification according	e substance or mixture g to Regulation (EC) No. 1272/2008 [CLP] Flammable gases, Category 1B H221			
2.1. Classification of the Classification according Physical hazards 2.2. Label elements	e substance or mixture g to Regulation (EC) No. 1272/2008 [CLP] Flammable gases, Category 1B H221			



: Danger

GHS02

: H221 - Flammable gas. H280 - Contains gas under pressure; may explode if heated.

GHS04

	SAFETY DATA SHEET	Page : 2/11
Air Liquide	OAIEIT DATA ONEET	Revised edition no : 4.0
HII LIQUIDE		Revision date : 2023-01-23
		Supersedes version of : 2021-07-13
	Arcal 15	NOAL_1012 UFI: 4WS2-J0E2-800V- 1FH2
		Country : DK / Language : EN
Precautionary statements (CLP)		·
- Prevention	: P210 - Keep away from heat, hot surfaces, spa No smoking.	rks, open flames and other ignition sources.
- Response	 P377 - Leaking gas fire: Do not extinguish, unle P381 - In case of leakage, eliminate all ignition 	
- 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 disrup	oting 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	95	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.

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

None.

	SAFETY DATA SHEET	Page : 3/11	
O Air Liquide		Revised edition no : 4.0	
		Revision date : 2023-01-23	
		Supersedes version of : 2021-07-13	
	Arcal 15	NOAL_1012	
		UFI: 4WS2-J0E2-800V-	
		1FH2	
		Country : DK / Language : EN	
SECTION 5: Firefighting measu	ires		
5.1. Extinguishing media			
Suitable extinguishing media	: Water spray or fog.		
Unsuitable extinguishing media	: Carbon dioxide.		
	Do not use water jet to extinguish.		
5.2. Special hazards arising from the s	ubstance or mixture		
Specific hazards	: Exposure to fire may cause containers to rupture/exp	olode.	
Hazardous combustion products	: None.	: None.	
5.3. Advice for firefighters			
Specific methods	radiation may cause gas receptacles to rupture. Coo spray jet from a protected position. Prevent water us sewers and drainage systems. If possible, stop flow of product. Use water spray or fog to knock down fire fumes if po Do not extinguish a leaking gas flame unless absolut re-ignition may occur. Extinguish any other fire.	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	
Special protective equipment for fire fight	 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	s
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6.1. Personal precautions, protective equipment	and emergency procedures
For non-emergency personnel	 Act in accordance with local emergency plan. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous. 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.
6.2. Environmental precautions	
	Try to stop release.
6.3. Methods and material for containment and cl	eaning up
	Ventilate area.
6.4 Reference to other sections	

6.4. Reference to other sections

See also sections 8 and 13.

	SAFETY DATA SHEET	Page : 4/11		
Air Liquide		Revised edition no : 4.0		
		Revision date : 2023-01-23		
		Supersedes version of : 2021-07-13		
	Arcal 15	NOAL_1012 UFI: 4WS2-J0E2-800V- 1FH2		
		Country : DK / Language : EN		
SECTION 7: Handling and sto	orage			
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 procedures.	good industrial hygiene and safety		
	Only experienced and properly instructed persons	s should handle gases under pressure		
	Consider pressure relief device(s) in gas installati			
	Ensure the complete gas system was (or is regula	arily) checked for leaks before use.		
	Do not smoke while handling product.			
	Use only properly specified equipment which is su and temperature. Contact your gas supplier if in d			
	Avoid suck back of water, acid and alkalis.			
	Assess the risk of potentially explosive atmosphe	res and the need for explosion-proof		
	equipment.			
	Purge air from system before introducing gas. Take precautionary measures against static disch	2270		
	Keep away from ignition sources (including static	-		
	Consider the use of only non-sparking tools.	5 /		
	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,			
	designed to transport cylinders.			
	Leave valve protection caps in place until the con			
		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.		
	If user experiences any difficulty operating value of Never attempt to repair or modify container values			
		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 device			
	Do not remove or deface labels provided by the s	upplier for the identification of the content		
		of the container.		
	Open valve slowly to avoid pressure shock.	Suck back of water into the container must be prevented.		
7.2. Conditions for safe storage, incl				
contrationo for date storage, mol	Observe all regulations and local requirements re	narding storage of containers		
	Containers should not be stored in conditions like			
		Containers should not be stored in conditions mere to encourage conosion. Container valve guards or caps should be in place.		
	Containers should be stored in the vertical positio	n and properly secured to prevent them		
	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.	- v		
	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.

	SAFETY DATA SHEET	Page : 5/11	
Air Liquide		Revised edition no : 4.0	
Childade		Revision date : 2023-01-23	
		Supersedes version of : 2021-07-1	
	Arcal 15	NOAL_1012 UFI: 4WS2-J0E2-800V 1FH2	
		Country : DK / Language : EN	
7.3. Specific end use(s)	None.		
SECTION 8: Exposure control	ls/personal protection		
8.1. Control parameters			
OEL (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	ols		
	Provide adequate general and local exhaust vent Product to be handled in a closed system. Systems under pressure should be regularily che Gas detectors should be used when flammable g Consider the use of a work permit system e.g. for	ecked for leakages. ases/vapours may be released.	
8.2.2. Individual protection measures	e.g. personal protective equipment		
• Eye/face protection	A risk assessment should be conducted and docurisks related to the use of the product and to select The following recommendations should be considered precompliant to the recommended EN/ISO stands: Wear safety glasses with side shields. Standard EN 166 - Personal eye-protection - specific s	ct the PPE that matches the relevant risk. dered: ndards should be selected.	
 Skin protection Hand protection 	00 00	: Wear working gloves when handling gas containers. Standard EN 388 - Protective gloves against mechanical risk, performance level 1 or higher.	
- Other	 Consider the use of flame resistant anti-static safe Standard EN ISO 14116 - Limited flame spread n Standard EN 1149-5 - Protective clothing: Electro Wear safety shoes while handling containers. 	 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. 	
 Respiratory protection 	 Standard EN 137 - Self-contained open-circuit co face mask. When indicated by a risk assessment, Respirator selection of the Respiratory Protective Device (RI anticipated exposure levels, the hazards of the pr selected RPD. Self contained breathing apparatus is recommend expected, e.g. during maintenance activities on in None necessary. 	mpressed air breathing apparatus with full y Protective Equipment must be used. The PD) must be based on known or roduct and the safe working limits of the ded, where unknown exposure may be	
Thermal hazards	: None in addition to the above sections.		
8.2.3. Environmental exposure contro	bls Refer to local regulations for restriction of emissic specific methods for waste gas treatment.	ons to the atmosphere. See section 13 for	

	SAFETY DATA SHEET	Page : 6/11		
Air Liquide		Revised edition no : 4.0		
		Revision date : 2023-01-23		
		Supersedes version of : 2021-07-1		
i	Arcal 15	NOAL_1012 UFI: 4WS2-J0E2-800V 1FH2		
		Country : DK / Language : EN		
SECTION 9: Physical and che	mical properties			
9.1. Information on basic physical an	d chemical properties			
Appearance				
- Physical state at 20°C / 101.3kPa	: Gas			
- Colour	: Colourless			
Odour	: Odourless.			
	Odour threshold is subjective and inadequate to wa	arn 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.			
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] Density	: Not applicable. : Not applicable	: Not applicable.		
5		: Not applicable for gases and gas mixtures.		
Vapour density Relative density, liquid (water=1)		: Not applicable for gases and gas mixtures. : Not applicable		
Relative density, gas (air=1)		: Heavier than air.		
Water solubility		: Solubility in water of component(s) of the mixture :		
water solubility	• Hydrogen: 1.6 mg/l • Argon: 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 phys	ical hazard classes			
Explosive properties	: Not applicable.			
Oxidising properties	: Not applicable.			
9.2.2. Other safety characteristics				
Molar mass	: Not applicable for gas mixtures.			
Evaporation rate	: Not applicable for gases and gas mixtures.			
Other data	: Gas/vapour heavier than air. May accumulate in co	onfined spaces, particularly at or below		
	ground level.	······································		
SECTION 10: Stability and rea				
10.1. Reactivity		ad the state of states a first state.		
	No reactivity hazard other than the effects describe	ea in Sud-Sections Delow.		
10.2. Chemical stability	Stable upday normal conditions			
	Stable under normal conditions.			
10.3. Possibility of hazardous reaction				
	Can form explosive mixture with air. May react violently with oxidants.			
Reactivity	: This mixture contains components with the followir	na reactivity : Can form explosive mixture		
. Coolivity	with air. May react violently with oxidants	grouting . Can form explosive mixture		

with air. May react violently with oxidants.

	SAFETY DATA SHEET	Page : 7/11	
O Air Liquide	OAI ETT DATA ONEET	Revised edition no : 4.0	
		Revision date : 2023-01-23	
		Supersedes version of : 2021-07-13	
Arcal 15		NOAL_1012 UFI: 4WS2-J0E2-800V- 1FH2	
		Country : DK / Language : EN	
10.4. Conditions to avoid			
	Keep away from heat, hot surfaces, sparks, open smoking.	flames and other ignition sources. No	
	Avoid moisture in installation systems.		
10.5. Incompatible materials			
	Air, Oxidisers. For additional information on compatibility refer to	ISO 11114.	
10.6. Hazardous decomposition pro	<u>oducts</u>		
	Under normal conditions of storage and use, haza be produced.	ardous 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		
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 assessme	ent	
Assessment	: Not classified as PBT or vPvB.	
	DV	

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	SAFETY DATA SHEET	Page : 8/11
Air Liquide	OAI ETT DATA ONEET	Revised edition no : 4.0
		Revision date : 2023-01-23
		Supersedes version of : 2021-07-13
Arcal 15		NOAL_1012 UFI: 4WS2-J0E2-800V 1FH2
		Country : DK / Language : EN
12.6. Endocrine disrupting properties	<u>95</u>	
	The substance/mixture has no endocrine	disrupting 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 consid	derations	
13.1. Waste treatment methods		
List of hazardous waste codes (from Cc	Waste gas should be flared through a sui Do not discharge into any place where its Ensure that the emission levels from loca exceeded. Refer to the EIGA code of practice Doc.3 http://www.eiga.org for more guidance or Return unused product in original contain	accumulation could be dangerous. I regulations or operating permits are not 0 "Disposal of Gases", downloadable at o suitable disposal methods. er to supplier.
,		
,	Evernal tractment and disparal of works	abould comply with applicable local and/or
Decision 2000/532/EC as amended) <u>13.2. Additional information</u>	External treatment and disposal of waste national regulations.	should comply with applicable local and/or
<u>13.2. Additional information</u>	national regulations.	should comply with applicable local and/or
13.2. Additional information	national regulations.	should comply with applicable local and/or
,	national regulations.	should comply with applicable local and/or

14.2. UN proper shipping name

Transport by road/rail (ADR/RID) Transport by air (ICAO-TI / IATA-DGR) Transport by sea (IMDG) : COMPRESSED GAS, FLAMMABLE, N.O.S. (Hydrogen, Argon) : Compressed gas, flammable, n.o.s. (Hydrogen, Argon)

: COMPRESSED GAS, FLAMMABLE, N.O.S. (Hydrogen, Argon)

14.3. Transport hazard class(es)

Transport by road/rail (ADR/RID)

Labelling

Class

:	
	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

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

Class / Div. (Sub. risk(s))

Hazard identification number

Classification code

Tunnel Restriction

O Air Liquide	SAFETY DATA SHEET	Page : 9/11
	OAI ETT DATA ONEET	Revised edition no : 4.0
		Revision date : 2023-01-23
		Supersedes version of : 2021-07-13
I	Arcal 15	NOAL_1012 UFI: 4WS2-J0E2-800V 1FH2
		Country : DK / Language : EN
Transport by sea (IMDG) Class / Div. (Sub. risk(s)) Emergency Schedule (EmS) - Fire Emergency Schedule (EmS) - Spillage	: 2.1 : F-D : S-U	
14.4. Packing group		
Transport by road/rail (ADR/RID) Transport by air (ICAO-TI / IATA-DGR) Transport by sea (IMDG)	Not established.Not established.Not established.	
14.5. Environmental hazards		
Transport by road/rail (ADR/RID) Transport by air (ICAO-TI / IATA-DGR) Transport by sea (IMDG)	: None. : None. : None.	
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)	: P200 : Forbidden. : 200. : P200	
Special transport precautions	 Avoid transport on vehicles where the load space is compartment. Ensure vehicle driver is aware of the potential haze 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 protection device (where provided) 	ards of the load and knows what to do in led) is correctly fitted.

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.

	SAFETY DATA SHEET	Page : 10/11	
Air Liquide	OAIEIT DATA ONEET	Revised edition no : 4.0	
		Revision date : 2023-01-23	
		Supersedes version of : 2021-07-13	
Arcal 15		NOAL 1012	
		UFI: 4WS2-J0E2-800V-	
		1FH2	
		Country : DK / Language : EN	
Netherlands			
SZW-lijst van kankerverwekkende stoffen	: None of the components are listed		
SZW-lijst van mutagene stoffen	: None of the components are listed	None of the components are listedNone of the components are listed	
SZW-lijst van reprotoxische stoffen – Borstvoe	ding : None of the components are listed		
ZW-lijst van reprotoxische stoffen – : None of the components are listed uchtbaarheid			
SZW-lijst van reprotoxische stoffen – Ontwikke	eling : 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		
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 proc	duct.	

Indiantian of abandoa	• Safety data about in accordance with commission regulation (EU) No 2020/879
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
	STOT - RE : Specific Target Organ Toxicity - Repeated Exposure
Training advice	UFI : Unique Formula Identifier Ensure operators understand the flammability bazard
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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O Air Liquide	SAFETY DATA SHEET	Page : 11/11
		Revised edition no : 4.0
		Revision date : 2023-01-23
		Supersedes version of : 2021-07-13
Arcal 15		NOAL_1012 UFI: 4WS2-J0E2-800V- 1FH2
H221	21 Flammable gas.	
H280 Contains gas under pressure; may explode if heated.		d.
Press. Gas (Comp.)	Gases under pressure : Compressed gas	
DISCLAIMER OF LIABILITY	: Before using this product in any new process or compatibility and safety study should be carried Details given in this document are believed to be	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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