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Ethylene

NOAL_0055A Country : SE / Language : EN

SECTION 1: Identi	fication of the substance/mixtur	e and of the company	/undertaking	
1.1. Product identifier				
Trade name SDS no Other means of identifica	: NOAL_005	: 74-85-1 : 200-815-3	Ethylene N35	
REACH registration No Chemical formula	: 01-211946 : C2H4	2827-27		
1.2. Relevant identified	d uses of the substance or mixture and u	ises advised against		
Relevant identified uses	Test gas/C Laboratory Chemical r Use as a fu Polymer pr	alibration gas. use. eaction / Synthesis. el.	n risk assessment prior to use.	
Uses advised against				
	olier of the safety data sheet			
Company identification Supplier AIR LIQUIDE GAS AB Pulpetgatan 20 215 37 Malmö - SWED T +46 40 38 10 00 info.sweden@airliquide	DEN			
E-Mail address (competent person) : eunordic-sds@airliquide.com				
1.4. Emergency teleph Emergency telephone no				
Country	Organisation/Company	Address	Emergency number	Comment

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	

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SECTION 2: Hazards identification

2.1. Classification of the	e substance or mixture		
Classification according	to Regulation (EC) No. 1272/2008 [CLP]		
Physical hazards	Flammable gases, Category 1A H220		
	Gases under pressure : Liquefied gas H280		
Health hazards	Specific target organ toxicity – Single exposure, Category 3, Narcosis H336		
2.2. Label elements			
Labelling according to R	Regulation (EC) No. 1272/2008 [CLP]		
Hazard pictograms (CLP)			
Signal word (CLP)	GHS02 GHS04 GHS07		
Hazard statements (CLP)	 Danger H220 - Extremely flammable gas. H280 - Contains gas under pressure; may explode if heated. H336 - May cause drowsiness or dizziness. 		
Precautionary statements	(CLP)		
- Prevention	 P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. P271 - Use only outdoors or in a well-ventilated area. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. 		
- Response	 P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P377 - Leaking gas fire: Do not extinguish, unless leak can be stopped safely. P381 - In case of leakage, eliminate all ignition sources. P381 - In case of leakage, eliminate all ignition sources. P381 - In case of leakage, eliminate all ignition sources. P312 - Call a POISON CENTRE or doctor if you feel unwell. 		
- Storage	 P403+P233 - Store in a well-ventilated place. Keep container tightly closed. P405 - Store locked up. P403 - Store in a well-ventilated place. P410+P403 - Protect from sunlight. Store in a well-ventilated place. 		
- Disposal considerations	: P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.		
2.3. Other hazards			
	Contact with liquid may cause cold burns/frostbite. 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]
Ethylene	CAS-No.: 74-85-1 EC-No.: 200-815-3 EC Index-No.: 601-010-00-3 REACH registration No: 01-2119462827- 27	100	Flam. Gas 1A, H220 STOT SE 3, H336 Press. Gas (Liq.), H280



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Contains no other components or impurities which will influence the classification of the product.3.2. MixturesNot established.

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.	
4.2. Most important symptoms and effects, both acute and delayed		
	In low concentrations may cause narcotic effects. Symptoms may include dizziness,	

headache, nausea and loss of co-ordination. See section 11.

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

Obtain medical assistance.

SECTION 5: Firefighting measures			
5.1. Extinguishing media			
- Suitable extinguishing media	: Water spray or fog. Dry powder.		
- Unsuitable extinguishing media	: Carbon dioxide. Do not use water jet to extinguish.		
5.2. Special hazards arising from the substand	ce or mixture		
Specific hazards Hazardous combustion products	Exposure to fire may cause containers to rupture/explode.Carbon monoxide.		
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	 Wear gas tight chemically protective clothing in combination with self contained breathing apparatus. Standard EN 943-2: Protective clothing against liquid and gaseous chemicals, aerosols and solid particles. Gas-tight chemical protective suits for emergency teams. Standard EN 137 - Self-contained open-circuit compressed air breathing apparatus with full face mask. 		

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment a	and emergency procedures	
For non-emergency personnel	 Act in accordance with local emergency plan. Try to stop release. Evacuate area. Ensure adequate air ventilation. Stay upwind. See section 8 of the SDS for more information on personal protective equipment 	
For emergency responders	: Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe. 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 cleaning up		
	Keep area evacuated and free from ignition sources until any spilled liquid has evaporated (ground free from frost).	
6.4. Reference to other sections	See also sections 8 and 13.	

7.1. Precautions for safe handling

SECTION 7: Handling and storage

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. 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 discharges). Consider the use of only non-sparking tools. Ensure equipment is adequately earthed.

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Safe handling of the gas receptacle	 Refer to supplier's container handling instructions. Do not allow backfeed into the container. Protect containers from physical damage; do not dra When moving cylinders, even for short distances, us designed to transport cylinders. Leave valve protection caps in place until the contair wall or bench or placed in a container stand and is re If user experiences any difficulty operating valve disc Never attempt to repair or modify container valves or Damaged valves should be reported immediately to t Keep container valve outlets clean and free from con Replace valve outlet caps or plugs and container cap is disconnected from equipment. Close container valve after each use and when empt Never attempt to transfer gases from one cylinder/co Never use direct flame or electrical heating devices t Do not remove or deface labels provided by the supp of the container. Suck back of water into the container must be prever Open valve slowly to avoid pressure shock. 	e a cart (trolley, hand truck, etc.) her has been secured against either a eady for use. continue use and contact supplier. safety relief devices. the supplier. traminants particularly oil and water. os where supplied as soon as container cy, even if still connected to equipment. intainer to another. o raise the pressure of a container. blier for the identification of the content
7.2. Conditions for safe storage, inclu		l'an des se formet in an
	Observe all regulations and local requirements regar Containers should not be stored in conditions likely to Container valve guards or caps should be in place. Containers should be stored in the vertical position a from falling over. Stored containers should be periodically checked for Keep container below 50°C in a well ventilated place Store containers in location free from fire risk and aw Keep away from combustible materials. Segregate from oxidant gases and other oxidants in All electrical equipment in the storage areas should b potentially explosive atmosphere.	o encourage corrosion. nd properly secured to prevent them general condition and leakage. ay from sources of heat and ignition.
7.3. Specific end use(s)		
	None.	
	NOUG.	

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Ethylene (74-85-1)		
Belgium - Occupational Exposure Limits		
Local name	Ethylène # Etheen	
OEL TWA	233 mg/m ³	
OEL TWA [ppm]	200 ppm	

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Remark		eux-mêmes aucun effet physiologique	d'oxygène descend en dessous de 17- rovoque des suffocations qu'aucun vermelding A betekent dat dit agens h geen fysiologische werking heeft, rerlaagt. Wanneer het zuurstofgehalte orzaakt het zuurstoftekort verstikking,
Finland - Occupational Exposure	Limits		
Local name		Etyleeni	
HTP (OEL TWA) [2]		200 ppm	
Ireland - Occupational Exposure	Limits		
Local name		Ethylene	
OEL TWA [2]		200 ppm	
Latvia - Occupational Exposure I	_imits	•	
Local name		Etilēns	
OEL TWA		100 mg/m ³	
Lithuania - Occupational Exposu	re Limits		
Local name		Etilenas	
IPRV (OEL TWA)		100 mg/m ³	
Portugal - Occupational Exposu	e Limits		
Local name		Etileno	
OEL TWA [ppm]		200 ppm	
Spain - Occupational Exposure L	imits		
Local name		Etileno	
VLA-ED (OEL TWA) [2]		200 ppm	
Sweden - Occupational Exposure	e Limits		
Local name		Eten	
NGV (OEL TWA)		330 mg/m ³	
NGV (OEL TWA) [ppm]		250 ppm	
KTV (OEL STEL)		1200 mg/m ³	
KTV (OEL STEL) [ppm]		1000 ppm	
Switzerland - Occupational Expo	sure Limits		
Local name		Ethen	
MAK (OEL TWA) [1]		11500 mg/m ³ 11500 mg/m ³	
MAK (OEL TWA) [2]		10000 ppm 10000 ppm	

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Remark	M2 - Asphyxie - NIOSH
USA - ACGIH - Occupational Exposure Limits	
Local name	Ethylene
ACGIH OEL TWA [ppm]	200 ppm
Remark (ACGIH)	Asphyxia

Ethylene (74-85-1)		
Belgium - Occupational Exposure Limits		
Ethylène # Etheen		
233 mg/m ³		
200 ppm		
A: La mention A signifie que l'agent libère un gaz ou une vapeur qui n'ont en eux-mêmes aucun effet physiologique mais peuvent diminuerm.Le taux d'oxygène dans l'air. Lorsque le taux d'oxygène descend en dessous de 17-18 % (vol/vol) le manque d'oxygène provoque des suffocations qu'aucun symptôme préalable n'annonce. # De vermelding A betekent dat dit agens gas of damp vrijgeeft dat of die op zich geen fysiologische werking heeft, maar het zuurstofgehalte in de lucht verlaagt. Wanneer het zuurstofgehalte daalt onder de 17-18 % (vol/vol), veroorzaakt het zuurstoftekort verstikking, die zich manifesteert zonder dat er een waarschuwing aan voorafgaat.		
Etyleeni		
200 ppm		
Ethylene		
200 ppm		
Etilēns		
100 mg/m ³		
Etilenas		
100 mg/m ³		
Portugal - Occupational Exposure Limits		
Local name Etileno		
200 ppm		
Spain - Occupational Exposure Limits		
Etileno		
200 ppm		

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Sweden - Occupational Exposure Limits

Sweden - Occupational Exposure Limits		
Local name	Eten	
NGV (OEL TWA)	330 mg/m ³	
NGV (OEL TWA) [ppm]	250 ppm	
KTV (OEL STEL)	1200 mg/m ³	
KTV (OEL STEL) [ppm]	1000 ppm	
Switzerland - Occupational Exposure Limits		
Local name	Ethen	
MAK (OEL TWA) [1]	11500 mg/m³ 11500 mg/m³	
MAK (OEL TWA) [2]	10000 ppm 10000 ppm	
Remark	M2 - Asphyxie - NIOSH	
USA - ACGIH - Occupational Exposure Limits		
Local name	Ethylene	
ACGIH OEL TWA [ppm]	200 ppm	
Remark (ACGIH)	Asphyxia	

Ethylene (74-85-1) DNEL: Derived no effect level (Workers) Acute - local effects, inhalation 230 mg/m³ Acute - systemic effects, inhalation 230 mg/m³

Ethylene (74-85-1)	
DNEL: Derived no effect level (Workers)	
Acute - local effects, inhalation	230 mg/m ³
Acute - systemic effects, inhalation	230 mg/m³

Ethylene (74-85-1)	
PNEC: Predicted no effect concentration	
Aqua (freshwater)	1.67 mg/l
Aqua (marine water)	1.67 mg/l

Ethylene (74-85-1)

PNEC: Predicted no effect concentration	
Aqua (freshwater)	1.67 mg/l
Aqua (marine water)	1.67 mg/l



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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. Ensure exposure is below occupational exposure limits (where available). 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. personal 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 goggles when transfilling or breaking transfer connections. Standard EN 166 - Personal eye-protection - specifications.				
Skin protection	Standard EN 100 - 1 ersonar eye-protection - specifications.				
	 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. Hydrogenated Nitrile -Butadiene rubber (HNBR). 				
- 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	 Gas filters may be used if all surrounding conditions e.g. type and concentration of the contaminant(s) and duration of use are known. Use gas filters with full face mask, where exposure limits may be exceeded for a short-term period, e.g. connecting or disconnecting containers. Standard EN 137 - Self-contained open-circuit compressed air breathing apparatus with full face mask. Recommended: Filter AX (brown). Gas filters do not protect against oxygen deficiency. Standard EN 14387 - Gas filter(s), combined filter(s) and standard EN136, full face masks . Keep self contained breathing apparatus readily available for emergency use. 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					

Refer to local regulations for restriction of emissions to the atmosphere. See section 13 for specific methods for waste gas treatment.

SECTION 9: Physical and chemical proper	ties
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9.1. Information on basic physical and chemical properties			
Appearance			
- Physical state at 20°C / 101.3kPa	: Gas		
- Colour	: Colourless.		
Odour	: Sweetish. Poor warning properties at low concentrations.		
	Odour threshold is subjective and inadequate to warn of overexposure.		
рН	: Not applicable for gases and gas mixtures.		
Melting point / Freezing point	: -169 °C		
	-169 °C		
Boiling point	: -103 °C		

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Flash point	: Not applicable for gases and gas mixtures.		
Flammability	: Extremely flammable gas		
Explosive limits	: 2.4 – 32.6 vol %		
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)	: 0.57		
Relative density, gas (air=1)	: 0.975		
Water solubility	: 130 mg/l		
Partition coefficient n-octanol/water (Log Kow)	: 1.13		
Auto-ignition temperature	: 440 °C		
Decomposition temperature	: Not applicable.		
Viscosity, kinematic	: No reliable data available.		
Particle characteristics	: Not applicable for gases and gas mixtures.		

9.2. Other information

Explosive properties Oxidising properties Tci Critical temperature [°C]	 Not applicable. Not applicable. 4.1 % 9.5 °C
9.2.2. Other safety characteristics	
Molar mass Evaporation rate Gas group	 28 g/mol Not applicable for gases and gas mixtures. Press. Gas (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	
Reactivity :	None. This mixture contains components with the following reactivity : Can form explosive mixture with air. May react violently with oxidants.
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	
	Under normal conditions of storage and use, hazardous decomposition products should not be produced.



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SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008		
Acute toxicity	: Toxicological effects not expected from this product if occupational exposure limit values are not exceeded.	
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	 May cause drowsiness or dizziness. In low concentrations may cause narcotic effects. Symptoms may include dizziness, headache, nausea and loss of co-ordination. 	
Target organ(s)	: Central nervous system.	
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		
<u>12.1. Toxicity</u>		
Assessment	: Classification criteria are not met.	
EC50 48h - Daphnia magna [mg/l]	: 62.4 mg/l	
EC50 72h - Algae [mg/l]	: 30.3 mg/l	
LC50 96 h - Fish [mg/l]	: 126 mg/l	
Ethylene (74-85-1)		
EC50 48h - Daphnia magna [mg/l]	62.4 mg/l	
EC50 72h - Algae [mg/l]	30.3 mg/l	
LC50 96 h - Fish [mg/l]	126 mg/l	
12.2. Persistence and degradability		
Assessment	: The substance is readily biodegradable. Unlikely to persist.	
12.3. Bioaccumulative potential		
Assessment	: Not expected to bioaccumulate due to the low log Kow (log Kow < 4). See section 9.	
<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	: Not classified as PBT or vPvB.	
12.6. Endocrine disrupting properties		
	The substance/mixture has no endocrine disrupting properties.	

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Other adverse effects Effect on the ozone layer Global warming potential [CO2=1] Effect on global warming No known effects from this product.
None.
4
Contains greenhouse gas(es).

When discharged in large quantities may contribute to the greenhouse effect.

SECTION 13: Disposal consid	lerations
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.

List of hazardous waste codes (from Commission 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.

14.1. UN number or ID number	
In accordance with ADR / RID / IMDG / IATA / ADN UN-No.	: 1962
14.2. UN proper shipping name	
Transport by road/rail (ADR/RID)	: ETHYLENE
Transport by air (ICAO-TI / IATA-DGR)	: Ethylene
Transport by sea (IMDG)	: ETHYLENE
14.3. Transport hazard class(es)	
Labelling	

2.1 : Flammable gases. Transport by road/rail (ADR/RID) Class : 2 Classification code : 2F Hazard identification number : 23 **Tunnel Restriction** : 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)) : 2.1 Transport by sea (IMDG) Class / Div. (Sub. risk(s)) : 2.1 Emergency Schedule (EmS) - Fire : F-D

SECTION 14: Transport information

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	-	Country : SE / Language : EN
Emergency Schedule (EmS) - Spillage	: S-U	
14.4. Packing group		
Transport by road/rail (ADR/RID)	: Not established.	
Transport by air (ICAO-TI / IATA-DGR)	: 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-DGR)	: None.	
Transport by sea (IMDG)	: None.	
14.6. Special precautions for user		
Packing Instruction(s)		
Transport by road/rail (ADR/RID)	: P200	
Transport by air (ICAO-TI / IATA-DGR)		

Packing Instruction(s) Transport by road/rail (ADR/R

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

Special transport precautions

: Avoid transport on vehicles where the load space is not separated from the driver's compartment.

Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency.

- Before transporting product containers:
- Ensure there is adequate ventilation.
- Ensure that containers are firmly secured.
- Ensure valve is closed and not leaking.
- Ensure valve outlet cap nut or plug (where provided) is correctly fitted.
- Ensure valve protection device (where provided) is correctly fitted.

14.7. Maritime transport in bulk according to IMO instruments

Not applicable.

: Forbidden. : 200. : P200

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture		
EU-Regulations		
Restrictions on use National legislation Seveso Directive : 2012/18/EU (Seveso III)	 None. Ensure all national/local regulations are observed. Listed. Covered. 	
National regulations		
Ensure all national/local regulations are observed. Germany Water hazard class (WGK) National Rules and Recommendations	: WGK nwg, Non-hazardous to water (Classification according to AwSV)	
	 [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. 	
Netherlands SZW-lijst van kankerverwekkende stoffen SZW-lijst van mutagene stoffen SZW-lijst van reprotoxische stoffen – Borstvoeding	 The substance is not listed The substance is not listed The substance is not listed 	

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NOAL 0055A

Ethylene

	-	Country : SE / Language : EN
SZW-lijst van reprotoxische stoffen –	: The substance is not listed	
Vruchtbaarheid		
SZW-lijst van reprotoxische stoffen – Ontwikkeling	: The substance is not listed	
Denmark		
Danish National Regulations	: Young people below the age of 18 years are not allowed	ed to use the product
15.2. Chemical safety assessment		

A CSA has been carried out.

SECTION 16: Other information

Indication of changes

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

Section	Changed item	Change	Comments
1.3	Company	Modified	Version 6.0. New address in Sweden. (This change only applies to the Swedish (SE) version of this SDS)

Abbreviations and acronyms	ATE - Acute Toxicity Estimate CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008 REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 EINECS - European Inventory of Existing Commercial Chemical Substances CAS# - Chemical Abstract Service number PPE - Personal Protection Equipment LC50 - Lethal Concentration to 50 % of a test population RMM - Risk Management Measures PBT - Persistent, Bioaccumulative and Toxic vPvB - Very Persistent and Very Bioaccumulative STOT - SE : Specific Target Organ Toxicity - Single Exposure CSA - Chemical Safety Assessment EN - European Standard UN - United Nations ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road IATA - International Air Transport Association IMDG code - International Maritime Dangerous Goods RID - Regulations concerning the International Carriage of Dangerous Goods by Rail WGK - Water Hazard Class STOT - RE : Specific Target Organ Toxicity - Repeated Exposure
Training advice	UFI : Unique Formula Identifier
Further information	Ensure operators understand the flammability hazard. 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	
Flam. Gas 1A Flammable gases, Category 1A	
H220	Extremely flammable gas.
H280	Contains gas under pressure; may explode if heated.
H336	May cause drowsiness or dizziness.
Press. Gas (Liq.)	Gases under pressure : Liquefied gas

O Air Liquide	SAFETY DATA SHEET	Page : 15/15	
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Ethylene		NOAL_0055A	
		Country : SE / Language : EN	
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis		
DISCLAIMER OF LIABILITY	compatibility and safety study should be carried out. Details given in this document are believed to be correc	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	

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