

Krypton

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Reference number: EIGA077A-ALBNL Issue date: 1-7-2017 Revision date: 1-1-2022 Supersedes version of: 1-7-2017 Version: 5.0

Warning



	e substance/mixture and of the company/undertaking
1.1. Product identifier	
Trade name	: Krypton
SDS no	: EIGA077A-ALBNL
Other means of identification	: Krypton
	CAS-No. : 7439-90-9
	EC-No. : 231-098-5
	EC Index-No. :
REACH registration No	: Listed in Annex IV / V REACH, exempted from registration.
Chemical formula	: Kr
1.2. Relevant identified uses of the sul	bstance or mixture and uses advised against
Relevant identified uses	: Industrial and professional uses. Perform risk assessment prior to use.
	Test gas/Calibration gas.
	Laboratory and Process control.
	Laser gas.
	Contact supplier for more information on uses.
	Insulation material in glazing.
Uses advised against	: Consumer use.
	Uses other than those listed above are not supported, contact your supplier for more
	information on other uses.

1.3. Details of the supplier of the safety data sheet

THE NETHERLANDS:

AIR LIQUIDE BV De Witbogt 1 5652 AG Eindhoven the Netherlands-Nederland

BELGIUM:

L'AIR LIQUIDE BELGE S.A./N.V. Avenue de Bourget / Bourgetlaan 44 1130 Bruxelles-Brussel Belgium-Belgique-België

LUXEMBURG:

L'AIR LIQUIDE LUXEMBOURG S.A. ZONE P.E.D.-B.P.20 L-4801 RODANGE Luxemburg

infosafetydatasheet.albv@airliquide.com www.airliquide-benelux.com

1.4. Emergency telephone number

Emergency telephone number

: NL: +31 (0)40 250 35 03 / BE: +32 (0)2 431 72 00 / LUX: +352 50 62 63 1



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Country	Organisation/Company	Address	Emergency number	Comment
Belgium	Centre Anti-Poisons/Antigifcentrum c/o Hôpital Central de la Base - Reine Astrid	Rue Bruyn 1 1120 Bruxelles/Brussel	+32 70 245 245	Please dial: 070 245 245 for any urgent questions about intoxication (free of charge 24/7), if not accessible, dial: 02 264 96 30 (standard fee)
Luxembourg	Centre Anti-Poisons/Antigifcentrum c/o Hôpital Central de la Base - Reine Astrid	Rue Bruyn 1 1120 Bruxelles/Brussel	+352 8002 5500	Free telephone number with a 24/7 access. Experts answer all urgency questions on dangerous products in French, or German
Netherlands	Nationaal Vergiftigingen Informatie Centrum	Huispostnummer B.00.118 Postbus 85500 3508 GA Utrecht	+31 88 755 80 00	Only for the purpose of informing medical personnel in cases of acute intoxications

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 : Compressed gas	H280
2.2. Label elements		
Labelling according to R	Regulation (EC) No. 1272/2008 [CLP]	
Hazard pictograms (CLP)	: GHS04	
Signal word (CLP)	: Warning	
Hazard statements (CLP) Precautionary statements	: H280 - Contains gas under press (CLP)	sure; may explode if heated.
- Storage	: P403 - Store in a well-ventilated	place.
2.3. Other hazards		

Asphyxiant in high concentrations.

The substance/mixture has no endocrine disrupting properties.

SECTION 3: Composition/information on ingredients

3.1. Substances



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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Krypton	CAS-No.: 7439-90-9 EC-No.: 231-098-5 EC Index-No.: REACH registration No: *1	100	Press. Gas (Comp.), H280

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. Not established.

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	: 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 a	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.

spray jet from a protected position. Prevent water used in emergency cases from entering

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

None.

SECTION 5: Firefighting measured	res
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 su	bstance 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

sewers and drainage systems. If possible, stop flow of product.

Use water spray or fog to knock down fire fumes if possible.

Move containers away from the fire area if this can be done without risk.



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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	
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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. 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	: 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.
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.

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 work area. 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

Use only properly specified equipment which is suitable and temperature. Contact your gas supplier if in doubt. Avoid suck back of water, acid and alkalis.



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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 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 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 prevented. Open valve slowly to avoid pressure shock.
7.2. Conditions for safe storage, including an	
	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.

None.

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. 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 safety glasses with side shields. 	
Skin protection	Standard EN 166 - Personal eye-protection - specifications.	



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- Hand protection	: Wear working gloves when handling gas containers.
- Other	 Standard EN 388 - Protective gloves against mechanical risk, performance level 1 or higher. 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.
Odour	: No odour warning properties.
	Odour threshold is subjective and inadequate to warn of overexposure.
pH	: Not applicable for gases and gas mixtures.
Melting point / Freezing point	: -157,2 °C
Boiling point	: -153 °C
Flash point	: Not applicable for gases and gas mixtures.
Flammability	: Non flammable.
Explosive limits	: Non flammable.
Lower explosive limit (LEL)	: Not available
Upper explosive limit (UEL)	: Not available
Vapour pressure [20°C]	: Not applicable.
Vapour pressure [50°C]	: Not applicable.
Density	: Not applicable
Vapour density	: Not applicable.
Relative density, liquid (water=1)	: 2,4
Relative density, gas (air=1)	: 2,9
Water solubility	: 221 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

9.2. Other information

9.2.1. Information with regard to physical hazard classes		
Oxidising properties Critical temperature [°C]	: No oxidising properties. : -63,8 °C	
9.2.2. Other safety characteristics		

Molar mass Other data

- : 84 g/mol
- : Gas/vapour heavier than air. May accumulate in confined spaces, particularly at or below ground level.



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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.
10.4. Conditions to avoid	
	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 known 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

<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 ecological damage caused by this product.
<u>12.4. Mobility in soil</u>	
Assessment	: No ecological damage caused by this product.



SECTION 13: Disposal considerations

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12.5. Results of PBT and vPvB assessment	
Assessment	: Not classified as PBT or vPvB.
12.6. Endocrine disrupting properties	
No additional information available	
12.7. Other adverse effects	
Other adverse effects	: No known effects from this product.
Effect on the ozone layer	: No effect on the ozone layer.
Effect on global warming	: None.

13.1. Waste treatment methods	
	May be vented to atmosphere in a well ventilated place. Do not discharge into any place where its accumulation could be dangerous.
List of hazardous waste codes (from Commission	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.

SECTION 14: Transport information	
14.1. UN number or ID number	
In accordance with ADR / RID / IMDG / IATA / UN-No.	ADN : 1056
14.2. UN proper shipping name	
Transport by road/rail (ADR/RID)	: KRYPTON, COMPRESSED
Transport by air (ICAO-TI / IATA-DGR)	: Krypton, compressed
Transport by sea (IMDG)	: KRYPTON, COMPRESSED
14.3. Transport hazard class(es)	
Labelling	
	2.2 : Non-flammable, non-toxic gases.
Transport by road/rail (ADR/RID) Class	: 2
Classification code	: 2 : 1A
Hazard identification number	: 20
Tunnel Restriction	E - Passage forbidden through tunnels of category E
Transport by air (ICAO-TI / IATA-DGR)	
Class / Div. (Sub. risk(s))	: 2.2
Transport by sea (IMDG)	
Class / Div. (Sub. risk(s))	: 2.2
Emergency Schedule (EmS) - Fire	: F-C
Emergency Schedule (EmS) - Spillage	: S-V
14.4. Packing group	
Transport by road/rail (ADR/RID)	: Not established.
Transport by air (ICAO-TI / IATA-DGR)	: Not established.



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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) : 200. Cargo Aircraft only : 200. Transport by sea (IMDG) : P200 Special transport by sea (IMDG) : P200 Special transport precautions : 200. Cargo Aircraft only : 200. Special transport precautions : Krypton gained from the air, although slightly radioactive, is exempted from the requirements of Class7 ADR/RID, because of the small quantities involved. Avoid transport on vehicles where the load space is not separated from the driver's compartment.		
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14.7. Maritime transport in bulk according to IMO instruments	Special transport precautions	 requirements of Class7 ADR/RID, because of the small quantities involved. 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.
	14.7. Maritime transport in bulk according	to IMO instruments

Not applicable.

SECTION 15: Regulatory information			
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture			
EU-Regulations			
Restrictions on use Seveso Directive : 2012/18/EU (Seveso III)	: None. : Not covered.		
National regulations			
Regulatory reference	: Ensure all national/local regulations are observed.		
15.2. Chemical safety assessment			
	A CSA does not need to be carried out for this product.		

SECTION 16: Other information	
Indication of changes	: Revised safety data sheet in accordance with commission regulation (EU) No 453/2010.

Section	Changed item	Change	Comments
	UN-No. (RID)	Added	
	Reference number	Modified	
	Supersedes	Modified	
	Revision date	Modified	
2.3	Other hazards which do not result in classification	Modified	



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8.2	Respiratory protection	Modified	
9.1	Oxidising properties	Modified	
9.1	Flash point	Removed	
11.1	Other information	Added	
14.3	Danger labels (RID)	Added	

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 UFI : Unique Formula Identifier
Training advice	•
Training advice	: The hazard of asphyxiation is often overlooked and must be stressed during operator training.
	For more guidance, refer to EIGA SL 01 "Dangers of Asphyxiation", downloadable at
	http://www.eiga.eu
Further information	: 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		
H280	Contains gas under pressure; may explode if heated.	
Press. Gas (Comp.)	Gases under pressure : Compressed gas	
DISCLAIMER OF LIABILITY	 Before using this product in any new process or experiment, a thorough material compatibility and safety study should be carried out. Details given in this document are believed to be correct at the time of going to press. Whilst proper care has been taken in the preparation of this document, no liability for injury or damage resulting from its use can be accepted. 	

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