

Propane

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

1.1.	Product identifier	

Product form	: Substance
Trade name	: Propane
Chemical name	: Propane
EC Index	: 601-003-00-5
EC-No.	: 200-827-9
CAS-No.	: 74-98-6
REACH registration No	: 01-2119486944-21-0042
Product group	: Trade product

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses	
Main use category	: Industrial use, Professional use
Use of the substance/mixture	: Fuels Propellant Use in blowing agents
	monomer
	Formulation
	Distribution

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier	Only Representative
NIS a.d. Novi Sad	BENS Consulting d.o.o.
Narodnog Fronta 12	Špruha 19
21000 Novi Sad - Serbia	1236 Trzin - Slovenija
T + 381 (0) 21 481 1111	T +386 41 979 800
Dragana.Cvetkov@nis.eu (REACH)	info@bens-consulting.eu

1.4. Emergency telephone number

Emergency number

: + 381 (0) 21 481 1111 Only available during office hours.

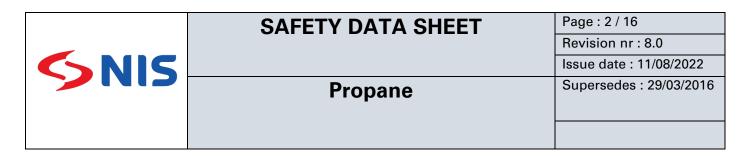
Country	Official advisory body	Address	Emergency number
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals-24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Flam. Gas 1A H220 Press. Gas (Liq.) H280



Full text of H- and EUH-statements: see section 16

2.2. Label elements

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

:

Hazard pictograms (CLP)

	GHS02 GHS04
Signal word	: Danger
Hazard statements (CLP)	: H220 - Extremely flammable gas.
	H280 - Contains gas under pressure; may explode if heated.
Precautionary statements (CLP)	 P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P377 - Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
	P381 - In case of leakage, eliminate all ignition sources.
	P410+P403 - Protect from sunlight. Store in a well-ventilated place.
Listed in Annex VI	: EC Index-No.: 601-003-00-5
2.3. Other hazards	
Other hazards	: The product does not meet the PBT and vPvB classification criteria.

The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

SECTION 3: Composition/information on ingredients		
3.1. Substances		
Substance name	: Propane	
CAS-No.	: 74-98-6	
EC-No.	: 200-827-9	
EC Index	: 601-003-00-5	

Substance name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Propane	(CAS-No.) 74-98-6 (EC-No.) 200-827-9 (EC Index) 601-003-00-5	≤ 100	Flam. Gas 1A, H220 Press. Gas (Liq.), H280

Full text of H- and EUH-statements: see section 16

3.2. Mixtures

Not applicable





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SECTION 4: First aid measures	
4.1. Description of first aid n	neasures
Additional advice	 First aider: Pay attention to self-protection!. Concerning personal protective equipment to use, see section 8. In case of doubt or persistent symptoms, consult always a physician. Show this safety data sheet to the doctor in attendance.
Inhalation	 Remove casualty to fresh air and keep warm and at rest. Give oxygen or artificial respiration if necessary. In case of doubt or persistent symptoms, consult always a physician.
Skin contact	 In case of frostbite, wash with plenty of water; do not remove clothing. Wash contaminated clothing before reuse. Remove contaminated clothing and shoes. Gently wash with plenty of soap and water. In case of doubt or persistent symptoms, consult always a physician.
Eyes contact	 Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing. In case of doubt or persistent symptoms, consult always a physician.
Ingestion	: Rinse mouth immediately and drink plenty of water. Get medical advice/attention.
4.2. Most important sympto	ms and effects, both acute and delayed
Inhalation	: May cause respiratory irritation.
Skin contact	: Can cause frostbite.
Eyes contact	: Causes frostbite burns to eyes.
Ingestion	: Ingestion is not considered a potential route of exposure.

Indication of any immediate medical attention and special treatment needed <u>4.3.</u>

Treat symptomatically.

SECTION 5: Firefighting measures		
5.1. Extinguishing media		
Suitable extinguishing media	: carbon dioxide (CO2), powder, alcohol-resistant foam, water spray.	
Unsuitable extinguishing media	: Strong water jet.	
5.2. Special hazards arising from the substance or mixture		
Specific hazards	: Extremely flammable gas. Contains gas under pressure; may explode if heated. Vapours may form explosive mixture with air. Vapours are heavier than air and may spread along floors. Vapours are heavier than air and may travel considerable distance to an ignition source and flash back to source of vapours. Container may explode if heated.	
Hazardous decomposition products in case of fire	: Carbon oxides (CO, CO2).	
5.3. Advice for firefighters		
Firefighting instructions	: Evacuate area. Use water spray or fog for cooling exposed containers. Contain the extinguishing fluids by bunding. Prevent fire fighting water from entering the environment.	
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self- contained breathing apparatus.	
Other information	: Do not allow run-off from fire-fighting to enter drains or water courses. Dispose of waste in accordance with environmental legislation.	



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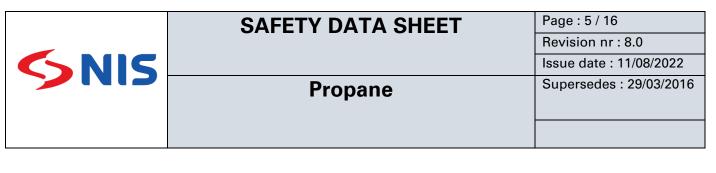
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SECTI	SECTION 6: Accidental release measures		
<u>6.1.</u>		e equipment and emergency procedures	
6.1.1.	For non-emergency personnel		
For no	n-emergency personnel	: Evacuate unnecessary personnel. Keep upwind. Provide adequate ventilation. Do not breathe gas. Avoid contact with skin, eyes and clothing. Wear recommended personal protective equipment. Concerning personal protective equipment to use, see section 8. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof equipment. Ensure equipment is adequately earthed. Use only non-sparking tools. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.	
6.1.2.	For emergency responders		
For em	nergency responders	: Ensure procedures and training for emergency decontamination and disposal are in place. Concerning personal protective equipment to use, see section 8.	
<u>6.2</u> .	Environmental precautions		
Do not	allow to enter into surface water	or drains. Notify authorities if product enters sewers or public waters.	
<u>6.3</u> .	Methods and material for conta	inment and cleaning up	
Metho	ds for cleaning up	: Stop leak if safe to do so. Leave evaporate and disperse. Hose down gases, fumes and/or dust with water. All processes must be supervised by specialists or authorised personnel. This material and its container must be disposed of in a safe way, and as per local legislation.	

6.4. Reference to other sections

Concerning personal protective equipment to use, see section 8. Concerning disposal elimination after cleaning, see section 13.

SECTION 7: Handling and storage		
7.1. Precautions for safe handling		
Precautions for safe handling	: Extremely cold liquid and gas under pressure. Causes severe frostbite. Provide adequate ventilation. Do not breathe gas. Avoid contact with skin, eyes and clothing. Use personal protective equipment as required. Concerning personal protective equipment to use, see section 8. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ensure equipment is adequately earthed. Use explosion-proof equipment. Keep container tight closed. Take any precaution to avoid mixing with Incompatible materials, Refer to Section 10 on Incompatible Materials. Ensure proper process control to avoid excess waste discharge (temperature, concentration, pH, time). Avoid release to the environment.	
Hygiene measures	: Keep good industrial hygiene. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product. Keep away from food, drink and animal feedingstuffs. Remove contaminated clothes. Separate working clothes from town clothes. Launder separately. Wash contaminated clothing before reuse.	
7.2. Conditions for safe storage, including any incompatibilities		
Storage conditions	: Gases under pressure. Liquefied gas. Store in a dry, cool and well-ventilated place. Do not store near or with any of the incompatible materials listed in section 10. Take precautionary measures against static discharge.	
Heat and ignition sources	: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Protect from sunlight.	



: Keep only in the original container.

Special rules on packaging

: Containers which are opened should be properly resealed and kept upright to prevent leakage. Do not pierce or burn, even after use. Keep container tight closed.

Packaging materials

7.3. Specific end use(s)

see section(s) : 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Propane (74-98-6)		
Austria	MAK (OEL TWA)	1800 mg/m ³
Austria	MAK (OEL TWA) [ppm]	1000 ppm
Austria	MAK (OEL STEL)	3600 mg/m ³
Austria	MAK (OEL STEL) [ppm]	2000 ppm
Belgium	OEL TWA [ppm]	1000 ppm (gas)
Bulgaria	OEL TWA	1800 mg/m ³
Denmark	OEL TWA [1]	1800 mg/m³
Denmark	OEL TWA [2]	1000 ppm
Estonia	OEL TWA	1800 mg/m ³
Estonia	OEL TWA [ppm]	1000 ppm
Finland	HTP (OEL TWA) [1]	1500 mg/m ³ (suffocating gas that displaces oxygen)
Finland	HTP (OEL TWA) [2]	800 ppm (suffocating gas that displaces oxygen)
Finland	HTP (OEL STEL)	2000 mg/m ³
Finland	HTP (OEL STEL) [ppm]	1100 ppm
Germany	Occupational exposure limit value (mg/m ³) (TRGS900)	1800 mg/m ³
Germany	Occupational exposure limit value (ppm) (TRGS900)	1000 ppm
Greece	OEL TWA	1800 mg/m ³
Greece	OEL TWA [ppm]	1000 ppm
Ireland	OEL STEL [ppm]	3000 ppm (calculated (Aliphatic hydrocarbon gases - Alkanes (C1-C4))
Latvia	OEL TWA	1800 mg/m ³
Latvia	OEL TWA [ppm]	1000 ppm
Poland	NDS (OEL TWA)	1800 mg/m ³
Portugal	OEL TWA [ppm]	1000 ppm
Romania	OEL TWA	1400 mg/m ³
Romania	OEL TWA [ppm]	778 ppm
Romania	OEL STEL	1800 mg/m ³
Romania	OEL STEL [ppm]	1000 ppm
Slovenia	OEL TWA	1800 mg/m ³
Slovenia	OEL TWA [ppm]	1000 ppm

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Propane (74-98-6)		
Slovenia	OEL STEL	7200 mg/m ³
Slovenia	OEL STEL [ppm]	4000 ppm
Norway	Grenseverdi (OEL TWA) [1]	900 mg/m ³
Norway	Grenseverdi (OEL TWA) [2]	500 ppm
Norway	Korttidsverdi (OEL STEL)	1125 mg/m ³ (value calculated)
Norway	Korttidsverdi (OEL STEL) [ppm]	625 ppm (value calculated)
Switzerland	MAK (OEL TWA) [1]	1800 mg/m ³
Switzerland	MAK (OEL TWA) [2]	1000 ppm
Switzerland	KZGW (OEL STEL)	7200 mg/m ³
Switzerland	KZGW (OEL STEL) [ppm]	4000 ppm
Canada (Quebec)	VEMP (OEL TWA)	1800 mg/m ³
Canada (Quebec)	VEMP (OEL TWA) [ppm]	1000 ppm
USA - IDLH	IDLH [ppm]	2100 ppm (10% LEL)
USA - NIOSH	NIOSH REL TWA	1800 mg/m ³
USA - NIOSH	NIOSH REL TWA [ppm]	1000 ppm
USA - OSHA	OSHA PEL TWA [1]	1800 mg/m ³
USA - OSHA	OSHA PEL TWA [2]	1000 ppm

DNEL	
PNEC	
Additional information	

: NA

: NA

: Recommended monitoring procedures :. Personal monitoring. Concentration measurement in air. Personal air monitoring. Room air monitoring

8.2. Exposure controls

Engineering measure(s)

- : Closed system. Provide adequate ventilation. Use only in area provided with appropriate exhaust ventilation. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Take precautionary measures against static discharge. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Use only explosion-proof equipment. Organisational measures to prevent /limit releases, dispersion and exposure. See Section 7 for information on safe handling.
- Personal protective equipment
- : The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

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Hand protection	: The selection of specific gloves for a specific application and time of use in a working area, should also take into account other factors on the working space, such as (but not limited to): other chemicals that are possibly used, physical requirements (protection against cutting/drilling, skill, thermal protection), and the instructions/specification of the supplier of gloves. cold insulating gloves (EN 511). Suitable material:	
Eye protection	: Use suitable eye protection (EN166): Safety glas shield (EN166)	ses. During splash contact: face
Body protection	: Wear suitable protective clothing. Overalls, apro	on and boots recommended.
Respiratory protection	espiratory protection : Use self-contained respiratory apparatus for rescue and maintenance wor storage vessels. Self-contained open-circuit compressed air breathing apparatus (EN 137). O2- Deficiency : Wear a positive-pressure supplied-air respirator.	
Thermal hazard protection	: Use dedicated equipment. Not required for norr	nal conditions of use.

Environmental exposure controls : Avoid release to the environment. Comply with applicable Community environmental protection legislation.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties		
Physical state	: Gas	
Appearance	: Press. Gas (Liq.). liquefied gas.	
Colour	: Colourless.	
Odour	: Characteristic.	
Odour threshold	: No data available	
	No data available	
рН	: Not applicable	
Relative evaporation rate (butylacetate=1)	: No data available	
Melting / freezing point	: -187 – -138 °C	
Freezing point	: No data available	
Initial boiling point and boiling range	: -161 – -0,5 °C	
Flash point	: -104 – -60 °C	
Auto-ignition temperature	: 460 – 580 °C	
Decomposition temperature	: No data available	
Flammability	: Extremely flammable	
Vapour pressure	: 550 – 1640 kPa (40°C)	
Vapour density	: No data available	
Relative density	: No data available	
Density	: 0,4228 – 0,589 g/cm ³	
Solubility	: Water: 0,024 – 0,061 g/l Insoluble	
Partition coefficient n-octanol/water	: < 2,3	
Kinematic viscosity	: Not applicable	
Dynamic viscosity	: Not applicable	
Explosive properties	: Not applicable. The study does not need to be conducted because there are no chemical groups associated with explosive properties present in the molecule.	



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: Not applicable. The classification procedure needs not to be applied because there are no chemical groups present in the molecule which are associated

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Oxidising properties

	with oxidising properties.
Explosive limits	: 1,9 – 15 vol %
Particle size	: Not applicable
Particle size distribution	: Not applicable
Particle shape	: Not applicable
Particle aspect ratio	: Not applicable
Particle aggregation state	: Not applicable
Particle agglomeration state	: Not applicable
Particle specific surface area	: Not applicable
Particle dustiness	: Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Extremely flammable gas. Reference to other sections: 10.4 & 10.5.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures. Stable under normal conditions.

10.3. Possibility of hazardous reactions

Reacts violently with : Strong oxidizing agents. Acids.

10.4. Conditions to avoid

Avoid the build-up of electrostatic charge. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Protect from sunlight. Exposure to air. See Section 7 for information on safe handling.

10.5. Incompatible materials

Strong oxidizing agents. Halogenated hydrocarbon. Nitrogen oxides (NOx). Halogens. fluorinated compounds. See Section 7 for information on safe handling.

10.6. Hazardous decomposition products

Reference to other sections 5.2.

SECTION 11: Toxicological information		
11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008		
Acute toxicity : Not classified (Based on available data, the classification criteria are not met)		
Propane (74-98-6)		
LC50/inhalation/4h/rat	1443 mg/l (Exposure time: 15 min)	
Skin corrosion/irritation	: Not classified (Based on available data, the classification criteria are not met)	
	pH: Not applicable	

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Serious eye damage/irritation	: Not classified (Based on available data, the cla pH: Not applicable	ssification criteria are not met)
Respiratory or skin sensitisation	: Not classified (Based on available data, the classification criteria are not met)	
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)	
Carcinogenicity	: Not classified (Based on available data, the cla	ssification criteria are not met)

Not classified (Based on available data, the classification criteria are not met)Not classified (Based on available data, the classification criteria are not met)

: Not classified (Based on available data, the classification criteria are not met)

: Not classified (Based on available data, the classification criteria are not met)

: Symptoms related to the physical, chemical and toxicological characteristics.

11.2.1. Endocrine disrupting properties	
Adverse health effects caused by endocrine disrupting properties	: The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605
11.2.2 Other information	
Other information	: Symptoms related to the physical, chemical and toxicological characteristics, For further information see section 4

For further information see section 4.

Not applicable

SECTION 12: Ecological information	
<u>12.1. Toxicity</u>	
Environmental properties	: Ecological injuries are not known or expected under normal use.
Hazardous to the aquatic environment, short–term (acute)	: Not classified
Hazardous to the aquatic environment, long–term (chronic)	: Not classified

Propane (74-98-6)		
LC50 - Fish [1]	24,11 – 147,54 mg/l	
EC50 - Crustacea [1]	14,22 – 69,43 mg/l	
ErC50 algae	7,71 – 16,5 mg/l	
NOEC chronic algae	4,5 mg/l	

12.2. Persistence and degradability

Reproductive toxicity

STOT-single exposure STOT-repeated exposure

Aspiration hazard

Propane (74-98-6) Kinematic viscosity

Other information

11.2. Information on other hazards

Propane (74-98-6)	
Persistence and degradability	Readily biodegradable.

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12.3. Bioaccumulative potential

Propane (74-98-6)	
Partition coefficient n-octanol/water < 2,3	
Bioaccumulative potential No additional information available.	

Propane (74-98-6)	
Partition coefficient n-octanol/water	1,09 (at 20 °C (at pH 7)

12.4. Mobility in soil

Propane (74-98-6)	
Mobility in soil No data available	
Ecology - soil Not applicable.	

12.5. Results of PBT and vPvB assessment

Propane (74-98-6)	
Results of PBT assessment	Not applicable
12.6. Endocrine disrupting properties	
Adverse effects on the environment caused by endocrine disrupting properties	: The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605
12.7. Other adverse effects	
Other adverse effects	: No data available
SECTION 13: Disposal considerations	
40.4 Wests to stress to sthe de	

13.1. Waste treatment methods

Product/Packaging disposal recommendations	: Avoid release to the environment. Dispose of empty containers and wastes safely. See Section 7 for information on safe handling. Refer to manufacturer/supplier for information on recovery/recycling. Recycling is preferred to disposal or incineration. If recycling is not possible, eliminate in accordance with local valid waste disposal regulations. Handle contaminated packages in the same way as the substance itself. Dispose of contaminated materials in accordance with current regulations. Packaging contaminated by the product : Do not pierce or burn, even after use. Never use pressure to empty container.
European waste catalogue (2001/573/EC, 75/442/EEC, 91/689/EEC)	: This material and its container must be disposed of as hazardous waste Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities

SECTION 14: Transport informationIn accordance with ADR / RID / IMDG / IATA / ADNADRIMDGIATAADNRID14.1. UN number1978197819781978

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ADR	IMDG	ΙΑΤΑ	ADN	RID
14.2. UN proper shipping name				
PROPANE	PROPANE	Propane	PROPANE	PROPANE
Transport document de	scription			
UN 1978 PROPANE,	UN 1978 PROPANE,	UN 1978 Propane, 2.1	UN 1978 PROPANE,	UN 1978 PROPANE,
2.1, (B/D)	2.1		2.1	2.1
14.3. Transport haza	rd class(es)	I		
2.1	2.1	2.1	2.1	2.1
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Dangerous for the	Dangerous for the	Dangerous for the	Dangerous for the	Dangerous for the
environment : No	environment : No	environment : No	environment : No	environment : No
	Marine pollutant : No			
No supplementary information available				

14.6. Special precautions for user

Special precautions for user	:	No additional information available
- Overland transport		
Classification code (ADR)	:	2F
Special provisions	:	652, 660, 657, 662
Limited quantities (ADR)	:	0
Excepted quantities (ADR)	:	E0
Packing instructions (ADR)	:	P200
Mixed packing provisions (ADR)	:	MP9
Portable tank and bulk container instructions (ADR)	:	(M), T50
Tank code (ADR)	:	PxBN(M)
Tank special provisions (ADR)	:	ТА4, ТТ9
Vehicle for tank carriage	:	FL
Transport category (ADR)	:	2
Special provisions for carriage - Loading, unloading and handling (ADR)	:	CV9, CV10, CV36
Special provisions for carriage - Operation (ADR)	:	S2, S20
Hazard identification number (Kemler No.)	:	23
Orange plates	:	23 1978
Tunnel restriction code	:	B/D
EAC code	:	2YE

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- Transport by sea	
Limited quantities (IMDG)	: 0
Excepted quantities (IMDG)	: E0
Packing instructions (IMDG)	: P200
Tank instructions (IMDG)	: T50
EmS-No. (Fire)	: F-D
EmS-No. (Spillage)	: S-U
Stowage category (IMDG)	: E
Stowage and handling (IMDG)	: SW2
Properties and observations (IMDG)	: Flammable hydrocarbon gas. Explosive limits: 2.3% to 9.5% Heavier than air (1.56).
- Air transport	
PCA Excepted quantities (IATA)	: E0
PCA Limited quantities (IATA)	: Forbidden
PCA limited quantity max net quantity (IATA)	: Forbidden
PCA packing instructions (IATA)	: Forbidden
PCA max net quantity (IATA)	: Forbidden
CAO packing instructions (IATA)	: 200
CAO max net quantity (IATA)	: 150kg
Special provisions (IATA)	: A1
ERG code (IATA)	: 10L
- Inland waterway transport	
Classification code (ADN)	: 2F
Special provisions (ADN)	: 657, 66
Limited quantities (ADN)	: 0
Excepted quantities (ADN)	: E0
Carriage permitted (ADN)	: T
Equipment required (ADN)	: PP, EX, A
Ventilation (ADN)	: VE01
Number of blue cones/lights (ADN)	: 1
- Rail transport	
Special provisions (RID)	: 657, 660, 662
Limited quantities (RID)	: 0
Excepted quantities (RID)	: E0
Packing instructions (RID)	: P200
Mixed packing provisions (RID)	: MP9
Portable tank and bulk container instructions (RID)	: T50(M)
Tank codes for RID tanks (RID)	: PxBN(M)
Special provisions for RID tanks (RID)	: TU38, TE22, TA4, TT9, TM6
Transport category (RID)	: 2
Special provisions for carriage - Loading, unloading and handling (RID)	: CW9, CW10, CW36

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Colis express (express parcels) (RID): CE3Hazard identification number (RID): 23

14.7. Maritime transport in bulk according to IMO instruments

Code: IBC

: No data available.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

40. Substances classified as flammable gases category 1 or 2, flammable liquids	Propane ; Propane
categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which,	
in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids	
category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3	
of Annex VI to Regulation (EC) No 1272/2008 or not.	

Propane is not on the REACH Candidate List Propane is not on the REACH Annex XIV List

15.1.2. National regulations

France

No ICPE	Installations classées Désignation de la rubrique	Code Régime	Rayon
4718.text	Gaz inflammables liquéfiés de catégorie 1 et 2 (y compris GPL) et gaz naturel (y compris biogaz affiné, lorsqu'il a été traité conformément aux normes applicables en matière de biogaz purifié et affiné, en assurant une qualité équivalente à celle du gaz naturel, y compris pour ce qui est de la teneur en méthane, et qu'il a une teneur maximale de 1 % en oxygène). La quantité totale susceptible d'être présente dans les installations y compris dans les cavités souterraines (strates naturelles, aquifères, cavités salines et mines désaffectées) étant :		
4718.1	1. Supérieure ou égale à 50 t Quantité seuil bas au sens de l'article R. 511-10 : 50 t. Quantité seuil haut au sens de l'article R. 511-10 : 200 t.	A	1
4718.2	2. Supérieure ou égale à 6 t mais inférieure à 50 t Quantité seuil bas au sens de l'article R. 511-10 : 50 t. Quantité seuil haut au sens de l'article R. 511-10 : 200 t.	DC	1

Germany

Germany	
Regulatory reference	: WGK nwg, Non-hazardous to water (Classification according to AwSV)
German storage class (LGK)	: LGK 2A - Gases (except aerosol dispensers and lighters)
Hazardous Incident Ordinance (12.	: Listed in the 12. BlmSchV (Annex I) under: 1.2.2
BImSchV)	Quantity threshold for operational area under § 1 para. 1
	- Sentence 1: 10000 kg
	- Sentence 2: 50000 kg
Netherlands	
Waterbezwaarlijkheid	: B (4) - Weinig schadelijk voor in het water levende organismen

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SZW-lijst van kankerverwekk stoffen	ende	: The substance is not listed	
SZW-lijst van mutagene stoffen		: The substance is not listed	
SZW-lijst van reprotoxische s Borstvoeding	stoffen –	: The substance is not listed	
SZW-lijst van reprotoxische stoffen – Vruchtbaarheid		: The substance is not listed	
SZW-lijst van reprotoxische stoffen – Ontwikkeling		: The substance is not listed	
Denmark			
Class for fire hazard		: Class I-1	
Store unit		: 1 liter	
Classification remarks		: F+ <flam. (liq.)="" 1a;="" gas="" press.="">; Emergency r the storage of flammable liquids must be followed</flam.>	U
Recommendations Danish Regulation		: Young people below the age of 18 years are not a	llowed to use the product

15.2. Chemical safety assessment

For this substance a chemical safety assessment has been carried out

SECTION 16: Other information

2.2	Precautionary statements (CLP)	Modified	
2.3	ED text	Added	
5.1	Suitable extinguishing media	Modified	
5.3	Protection during firefighting	Added	
5.3	Other information	Added	
7.2	Special rules on packaging	Added	
7.2	Heat and ignition sources	Added	
7.3	Specific end use(s)	Added	
9.2	Information with regard to physical hazard classes	Added	
9.2	Other safety characteristics	Added	
10.5	Incompatible materials	Added	
11.2	Adverse health effects caused by endocrine disrupting properties	Added	
12.6	Adverse effects on the environment caused by endocrine disrupting properties	Added	
14.7	Maritime transport in bulk according to IMO instruments	Added	
15.1	Waterbezwaarlijkheid	Modified	



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Abbreviations and acronyms:

ABM = Algemene beoordelingsmethodiek
ADN = Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation du Rhin ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
CLP = Classification, Labelling and Packaging Regulation according to 1272/2008/EC
IATA = International Air Transport Association
IMDG = International Maritime Dangerous Goods Code
LEL = Lower Explosive Limit/Lower Explosion Limit UEL = Upper Explosion Limit/Upper Explosive Limit
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
BTT = Breakthrough time (maximum wearing time)
DMEL = Derived Minimal Effect level
DNEL = Derived No Effect Level
EC50 = Median Effective Concentration
EL50 = Median effective level
ErC50 = EC50 in terms of reduction of growth rate
ErL50 = EL50 in terms of reduction of growth rate
EWC = European waste catalogue
LC50 = Median lethal concentration
LD50 = Median lethal dose
LL50 = Median lethal level
NA = Not applicable
NOEC = No observed effect concentration
NOEL: no-observed-effect level
NOELR = No observed effect loading rate
NOAEC = No observed adverse effect concentration
NOAEL = No observed adverse effect level
N.O.S. = Not Otherwise Specified
 OEL = Occupational Exposure Limits - Short Term Exposure Limits (STELs)
PNEC = Predicted No Effect Concentration
 Quantitative structure-activity relationship (QSAR)
 STOT = Specific Target Organ Toxicity
 TWA = time weighted average
 VOC = Volatile organic compounds
WGK = Wassergefährdungsklasse (Water Hazard Class under German Federal Water Management Act)

Sources of key data used to compile the : European Chemicals Bureau SDS supplier, CSR. datasheet Training advice : Training staff on good practice. Manipulations ar

: Training staff on good practice. Manipulations are to be done only by qualified and authorised persons.

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.
Press. Gas (Liq.)	Gases under pressure : Liquefied gas

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Classification according to Regulation (EC) No. 1272/2008 [CLP] Labelling according to Regulation (EC) No. 1272/2008 [CLP]



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