

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

propane

 Reference number: 104
 Supersedes version of: 20/11/2017
 Issue date: 07/04/2021
 Version: 7.0

Danger



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

1.1. Product identifier			
Trade name SDS no Chemical description		: propane : 104 : propane CAS-No. : 74-98-6 EC-No. : 200-827-9 EC Index-No. : 601-003-00-5	
REACH registration No Chemical formula		: 01-2119486944-21-XXXX : C3H8	
1.2. Relevant identified	uses of the substance or n	nixture and uses advised against	
Relevant identified uses		 Industrial and professional uses. Perform risk assessment prior to use. Test gas/Calibration gas. Chemical reaction / Synthesis. Use as a fuel. Laboratory use. Contact supplier for more information on uses 	
Uses advised against		Contact supplier for more information on uses. : Consumer use.	
1.3. Details of the suppl	ier of the safety data sheet	<u>t</u>	
Company identification		: Irish Oxygen Co Ltd Waterfall Road T12 PP40 Cork - Ireland T 021-4541821 (Mon-Fri 08:30-17:30) www.solgroup.com sds@irishoxygen.com	
E-Mail address (competer	nt person)	: msds@sol.it	
1.4. Emergency telepho	<u>ne number</u>		
Emergency telephone nur	nber	: 021-4541821 (Mon-Fri 08:30-17:30)	
SECTION 2: Hazards identification			
2.1. Classification of the	e substance or mixture		
Classification according	to Regulation (EC) No. 12	272/2008 [CLP]	
Physical hazards Health hazards	Flammable gases, Catego Gases under pressure : L Acute toxicity (inhalation:c	iquefied gas H280	
2.2. Label elements		000 ICI D1	
Labelling according to F	Regulation (EC) No. 1272/2		

propane



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Hazard pictograms (CLP)	
	GHS02 GHS04 GHS07
Signal word (CLP)	: Danger
Hazard statements (CLP)	: H220 - Extremely flammable gas.
	H280 - Contains gas under pressure; may explode if heated.
	H332 - Harmful if inhaled.
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.
- 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.
	P312 - Call a POISON CENTRE or doctor if you feel unwell.
- Storage	: P403 - Store in a well-ventilated place.
	P410+P403 - Protect from sunlight. Store in a well-ventilated place.
2.3. Other hazards	

Contact with liquid may cause cold burns/frostbite.

SECTION 3: Composition/information on ingredients

3.1. Substances

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-No.: 601-003-00-5 REACH registration No: 01-2119486944- 21	100	Flam. Gas 1A, H220 Press. Gas (Liq.), H280 Acute Tox. 4 (Inhalation:gas), H332

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

3.2. Mixtures Not applicable

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		

See section 11.

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

None.



SECTION 5: Firefighting measures

5.1. Extinguishing media

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 substance	e or mixture
Specific hazards	: Exposure to fire may cause containers to rupture/explode.
Hazardous combustion products	: 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	 In confined space use self-contained breathing apparatus. Standard protective clothing and equipment (Self Contained Breathing Apparatus) for fire fighters. Standard EN 137 - Self-contained open-circuit compressed air breathing apparatus with full face mask. Standard EN 469 - Protective clothing for firefighters. Standard - EN 659: Protective gloves for firefighters.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

	Try to stop release. Evacuate area. Monitor concentration of released product. Consider the risk of potentially explosive atmospheres.
	Wear self-contained breathing apparatus when entering area unless atmosphere is proved
	to be safe. Eliminate ignition sources.
	Ensure adequate air ventilation. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous.
	Act in accordance with local emergency plan. Stay upwind.
6.2. Environmental precautions	
	Try to stop release.
6.3. Methods and material for containment and clea	aning 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.



SECTION 7: Handling and storage

7.1. Precautions for safe handling

 procedures. Only experienced and property instructed persons should handle gases under pressure. Consider pressure relief device(s) in gas installations. Ensure the complete gas system was (or is regularity) checked for leaks before use. Do not smoke while handling product. Use only properly specified capitoment which is atuable for this product, its supply pressure and temperature. Contact your gas supplier i 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 discharge). Consider the use of only non-sparking tools. Do not breaket gas. Avoid release of product into work area. Ensure equipment is adequadity earthed. Refer to supplier's container handling instructions. Do not able the sole only non-sparking tools. Do not breaket gas. Avoid release of product into work area. Ensure equipment is adequadity container value attes (acid-strugtes). Consider the use of only consiner value attes (acid-strugtes). Consider the use of only non-sparking tools. Do not allow tacklead into the container. Protect containers from physical damage: do not drag, rull side or drap. When moving cylinders, even for shot distances, use a cart (trolley, hand truck, etc.) designed to transport opical in a container stand and is ready for use. If user experiences any difficulty operating valve discontinue use and contact supplier. Never attempt to regar or movidy container valves as descontact supplier. Never attempt to transport opical	Safe use of the product	: The product must be handled in accordance with good industrial hygiene and safety
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7.3. Specific end use(s)		potentially explosive atmosphere.
	7.3. Specific end use(s)	



SECTION 8: Exposure controls/personal protection

8.1. Control parameters

propane (74-98-6)		
Ireland - Occupational Exposure Limits		
Local name	Propane	
OEL TWA [2]	1000 ppm	
Regulatory reference	Code of Practice for the Chemical Agents Regulations 2016	
DNEL (Derived-No Effect Level)	: None established.	
PNEC (Predicted No-Effect Concentration)	: None established.	
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).	a d
	Gas detectors should be used when flammable gases/vapours may be release Consider the use of a work permit system e.g. for maintenance activities.	;u.
8.2.2. Individual protection measures, e.g		
	A risk assessment should be conducted and documented in each work area to	
	risks related to the use of the product and to select the PPE that matches the	elevant risk.
	The following recommendations should be considered:	
Eye/face protection	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		
- Hand protection	: Wear working gloves when handling gas containers.	
	Standard EN 388 - Protective gloves against mechanical risk.	
	Wear cold insulating gloves when transfilling or breaking transfer connections.	
	Standard EN 511 - Cold insulating gloves.	
- 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	on 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.	
	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 Self contained breathing apparatus is recommended, where unknown exposur	
	expected, e.g. during maintenance activities on installation systems.	e may be
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 s	action 13 for
	specific methods for waste gas treatment.	



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	: Stenchant often added. Sweetish. Poor warning properties at low concentrations.
Odour threshold	: Odour threshold is subjective and inadequate to warn of overexposure.
pH	: Not applicable for gases and gas mixtures.
Melting point / Freezing point	: -188 °C
Boiling point	: -100 C
51	
Flash point	: Not applicable for gases and gas mixtures.
Evaporation rate	: Not applicable for gases and gas mixtures.
Flammability (solid, gas)	: Extremely flammable gas.
Explosive limits	: 1.7 – 10.8 vol %
Vapour pressure [20°C]	: 8.3 bar(a)
Vapour pressure [50°C]	: 17 bar(a)
Vapour density	: Not applicable.
Relative density, liquid (water=1)	: 0.58
Relative density, gas (air=1)	: 1.5
Water solubility	: 75 mg/l
Partition coefficient n-octanol/water (Log Kow)	: 2.36
Auto-ignition temperature	: 470 °C
Decomposition temperature	: Not applicable.
Viscosity	: No reliable data available.
Explosive properties	: Not applicable.
Oxidising properties	: Not applicable.
9.2. Other information	
Molar mass	: 44 g/mol
Critical temperature [°C]	: 96.7 °C

ground level.

SECTION 10: Stability and reactivity

Other data

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	
	Can form explosive mixture with air.
	May react violently with oxidants.
10.4. Conditions to avoid	
	Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
	Avoid moisture in installation systems.
10.5. Incompatible materials	
	Air, Oxidisers.
	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.

: Gas/vapour heavier than air. May accumulate in confined spaces, particularly at or below



SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Classification criteria are not met. LC50 Inhalation - Rat [ppm] 20000 ppm/4h Skin corrosion/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. Gerr for reproduction : Fertility : No known effects from this product. Toxic for reproduction : Information : No known effects from this product. STOT-single exposure : No known effects from this product. STOT-single exposure : No known effects from this product. STOT-single exposure : No known effects from this product. STOT-single exposure : No known effects from this product. STOT-single exposure : No known effects from this product. STOT-single exposure : No known effects from this product. STOT-single exposure : No known effects from this product. STOT-single exposure : No known effects from this product. Stocoment : Classification criteria are not met. EC50 70x - Algae [mg/1] : 27.1 mg/1 EC50 70x - Algae [mg/1] : 49.9 mg/1 12.1 Toxicity : Anst expected to bioaccumulate due to the low log Kow (log Kow < 4). S	11.1. Information on toxicological effects	
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. Carcinogenicity : No known effects from this product. Toxic for reproduction : Fertility : No known effects from this product. STOT-single exposure : No known effects from this product. STOT-single exposure : No known effects from this product. STOT-single exposure : No known effects from this product. STOT-single exposure : No known effects from this product. STOT-single exposure : No known effects from this product. Stotaction hazard : No known effects from this product. Stotaction hazard : No known effects from this product. Stotaction hazard : No known effects from this product. Stotaction hazard : No known effects from this product. Stotaction hazard : No known effects from this product. Stotaction hazard : Classification criteria are not met. Stotactity : 27.1 mg/l	Acute toxicity	: Classification criteria are not met.
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STOT-repeated exposure : No known effects from this product. Aspiration hazard : Not applicable for gases and gas mixtures. SECTION 12: Ecological information : 121. Toxicity : Classification criteria are not met. Sc50 49. Dophnia magna [mg/l] : 27.1 mg/l EC50 49. Dophnia magna [mg/l] : 11.9 mg/l LC50 96. h - Fish [mg/l] : 27.1 mg/l EC50 49. Dophnia magna [mg/l] : 49.9 mg/l LC50 96. h - Fish [mg/l] : 11.9 mg/l LC5.0 57.h Algae [mg/l] : 19.9 mg/l LC5.0 57.h Algae [mg/l] : 49.9 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.	Toxic for reproduction : unborn child	: No known effects from this product.
Aspiration hazard : Not applicable for gases and gas mixtures. SECTION 12: Ecological information 11. Toxicity Assessment : Classification criteria are not met. EC50 72h - Algae [mg/l] : 27.1 mg/l EC50 72h - Algae [mg/l] : 49.9 mg/l LC50 96 h - Fish [mg/l] : 49.9 mg/l L22. 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.	STOT-single exposure	: No known effects from this product.
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LC50 96 h - Fish [mg/l] : 49.9 mg/l 12.2. Persistence and degradability Assessment : The substance is readily biodegradable. Unlikely to persist. 12.3. Bioaccumulative potential	EC50 48h - Daphnia magna [mg/l]	: 27.1 mg/l
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Assessment : The substance is readily biodegradable. Unlikely to persist. 12.3. Bioaccumulative potential	LC50 96 h - Fish [mg/l]	: 49.9 mg/l
12.3. Bioaccumulative potential Assessment : Not expected to bioaccumulate due to the low log Kow (log Kow < 4). See section 9. 12.4. Mobility in soil . 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 : Not classified as PBT or vPvB. 12.6. Other adverse effects : Not classified as PBT or vPvB. 12.6. Other adverse effects : No known effects from this product. Effect on the ozone layer : None. Global warming potential [CO2=1] : 3 Effect on global warming : Contains greenhouse gas(es).	12.2. Persistence and degradability	
Assessment : Not expected to bioaccumulate due to the low log Kow (log Kow < 4). See section 9.	Assessment	: The substance is readily biodegradable. Unlikely to persist.
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Global warming potential [CO2=1]: 3Effect on global warming: Contains greenhouse gas(es).		·
Effect on global warming : Contains greenhouse gas(es).	•	
		-
	Lited on global warning	When discharged in large quantities may contribute to the greenhouse effect.



SECTION 13: Disposal considerations

List of hazardous waste codes (from Commission Decision 2000/532/EC as amended)	 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. Ensure that the emission levels from local regulations or operating permits are not exceeded. Refer to the EIGA code of practice Doc.30 "Disposal of Gases", downloadable at http://www.eiga.org for more guidance on suitable disposal methods. Return unused product in original container to supplier. 16 05 04 *: Gases in pressure containers (including halons) containing hazardous substances.
13.2. Additional information	External tractment and dispagal of wasta about a samply with applicable local and/or

External treatment and disposal of waste should comply with applicable local and/or national regulations.

SECTION 14: Transport information

14.1. UN number

1 : Flammable gases. F 3 /D - Tank carriage : Passage forbidden through tunnels of category B, C, D and E. Other arriage : Passage forbidden through tunnels of category D and E 1 1 1 -D -U ot applicable ot applicable ot applicable one. one.
F 3 /D - Tank carriage : Passage forbidden through tunnels of category B, C, D and E. Other arriage : Passage forbidden through tunnels of category D and E .1 .1 .1 .0 -U ot applicable ot applicable one.
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F 3 /D - Tank carriage : Passage forbidden through tunnels of category B, C, D and E. Other
F 3
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1 : Flammable gases.
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978



14.6. Special precautions for user

Packing Instruction(s)		
Transport by road/rail (ADR/RID)	: P200	
Transport by air (ICAO-TI / IATA-DGR)		
Passenger and Cargo Aircraft	: Forbidden.	
Cargo Aircraft only	: 200.	
Transport by sea (IMDG)	: P200	
Special transport precautions	: Avoid transport on vehicles where the load space is not 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. Transport in bulk according to Annex II of Marpol and the IBC Code		
	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.
Other information, restriction and prohibition regulations	: Ensure all national/local regulations are observed.
Seveso Directive : 2012/18/EU (Seveso III)	: Listed.
National regulations	
No additional information available	
15.2. Chemical safety assessment	
	A CSA has been carried out.
SECTION 16: Other information	
Indication of changes	Revised safety data sheet in accordance with commission regulation (EU) No 2015/830

: Revised safety data sheet in accordance with commission regulation (EU) No 2015/830.



propane

Reference number: 104

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	: Ensure operators understand the flammability hazard.
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.
	End of document

End of document