Safety Data Sheet according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Hydrogen

Issue date: 12/28/2010 Revision date: 4/4/2025 Supersedes version of: 5/30/2020 Version: 3.0 SDS reference: 2010489



Danger

Air Liquide

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

1.1. Product identifier	
Trade name	: Hydrogen, Alphagaz™ Hydrogen, Smartop™ Hydrogen, Purified/ Compressed Hydrogen
SDS no	: 2010489
Other means of identification	: Hydrogen
	CAS-No. : 1333-74-0
	EC-No. : 215-605-7
	EC Index-No. : 001-001-00-9
REACH registration No	: Listed in Annex IV / V REACH, exempted from registration.
Chemical formula	: H2
1.2. Relevant identified uses of the substance	or mixture 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. Shield gas for welding processes.
	Use for manufacture of electronic/photovoltaic components.
	Laser gas.
	Laboratory use.
Uses advised against	: Do not inflate in party balloons because of the risk of explosion.
	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 s	heet
Company identification	AIR LIQUIDE SINGAPORE PTE LTD
	HEAD OFFICE : 2 VENTURE DRIVE, VISION EXCHANGE, #22-28, SINGAPORE 608526
	T +65 6265 3788, F +65 6 265 1441 <u>Sg-info@airliquide.com, https://sg.airliquide.com/resources/safety-data-sheets-sds</u>
	<u>-sy-mole aniquide.com, milps.//sy.aniquide.com/resources/salety-data-sheets-sus</u>
1.4. Emergency telephone number	
Emergency telephone number	: +65 6265 3788, +65 9619 9229 (After Office Hour)
SECTION 2: Hazards identification	

2.1. Classification of the substance or mixture

+65 6265 3788

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

Physical hazards Flammable gases, Category 1A H220 AIR LIQUIDE SINGAPORE PTE LTD EN (English) HEAD OFFICE : 2 VENTURE DRIVE, VISION EXCHANGE, #22-28, SINGAPORE 608526

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Gases under pres	sure : Compressed gas H280
2.2. Label elements	
Labelling according to Regulation (EC) No.	1272/2008 [CLP]
Hazard pictograms (CLP)	GHS02 GHS04
Signal word (CLP)	: Danger
Hazard statements (CLP)	: H220 - Extremely flammable gas. H280 - Contains gas under pressure; may explode if heated.
Precautionary statements (CLP)	
- Prevention	: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- Response	 P377 - Leaking gas fire: Do not extinguish, unless leak can be stopped safely. P381 - In case of leakage, eliminate all ignition sources.
- Storage	 P403 - Store in a well-ventilated place. P410+P403 - Protect from sunlight. Store in a well-ventilated place.
Supplemental information	: Contains fluorinated greenhouse gases listed in Regulation 2024/573.
2.3. Other hazards	
	: Not classified as PBT or vPvB.
	Asphyxiant in high concentrations.
	These high concentrations are within the flammability range.
	The substance/mixture has no endocrine disrupting properties.

SECTION 3: Composition/information on ingredients

3.1. Substances

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Hydrogen	CAS-No.: 1333-74-0 EC-No.: 215-605-7 EC Index-No.: 001-001-00-9 REACH registration No: *1	100	Flam. Gas 1A, H220 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.

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

Air Liquide	Hydrogen
	Reference number: 20104
- 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.
I.2. Most important symptoms and effects, be	
	 In high concentrations may cause asphyxiation. Symptoms may include loss of mobility/consciousness. Victim may not be aware of asphyxiation.
	See section 11.
I.3. Indication of any immediate medical atter	ntion and special treatment needed
	: None.
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
- Suitable extinguishing media	: Dry powder.
	Carbon dioxide.
	Be aware of the risk of formation of static electricity with the use of CO2 extinguishers. Do no
	use them in places where a flammable atmosphere may be present.
	Shutting off the source of the gas is the preferred method of control.
	Water spray or fog.
- Unsuitable extinguishing media	: Do not use water jet to extinguish.
5.2. Special hazards arising from the substan	ce or mixture
Specific hazards	: Exposure to fire may cause containers to rupture/explode.
Hazardous combustion products	: None.
3.3. Advice for firefighters	
Specific methods	: Do not extinguish a leaking gas flame unless absolutely necessary. Spontaneous/explosive r ignition may occur. Extinguish any other fire.
	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 spra jet from a protected position. Prevent water used in emergency cases from entering sewers a 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.
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 469 - Protective clothing for firefighters. Standard - EN 659: Protective gloves for firefighters. EN 15090 Footwear for firefighters. EN 443 Helmets for fire fighting in buildings a other structures.
	Standard EN 137 - Self-contained open-circuit compressed air breathing apparatus with full face mask.

SECTION 6: Accidental release measures



Hydrogen

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6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	 Act in accordance with local emergency plan. Try to stop release. Evacuate area. Eliminate ignition sources. Ensure adequate air ventilation. Stay upwind.
	See section 8 of the SDS for more information on personal protective equipment
For emergency responders	: 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.
	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 ar	nd cleaning 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	: 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.
	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.
	Do not breathe gas.
	Avoid release of product into work area.

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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.
7.2. Conditions for safe storage, including	Open valve slowly to avoid pressure shock. a any incompatibilities
	 Segregate from oxidant gases and other oxidants in store. All electrical equipment in the storage areas should be compatible with the risk of a potentially explosive atmosphere. 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.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Hydrogen, Alphagaz™ Hydrogen, Smar	top™ Hydrogen, I	Purified/ Compressed Hydrogen (1333-74-0)
USA - ACGIH - Occupational Exposure Limit	S	
Local name		Hydrogen
Regulatory reference		ACGIH 2024
OEL (Occupational Exposure Limits)	: None availab	le.
DNEL (Derived-No Effect Level)	: None availab	le.

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PNEC (Predicted No-Effect Concentration) 8.2. Exposure controls	: None available.
8.2.1. Appropriate engineering controls	
	 Provide adequate general and local exhaust ventilation. Product to be handled in a closed system. 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. Systems under pressure should be regularily checked for leakages.
	Ensure exposure is below occupational exposure limits (where available).
8.2.2. Individual protection measures, e.g. p	 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.
Eye/face protection	: Wear safety glasses with side shields. 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 risks, performance level 1 or higher. Recommended types include wrist gloves from leather or synthetic material with equivalent performance, fabric gloves, fabric gloves with leather palms.
- 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	 Self contained breathing apparatus (SCBA) or positive pressure airline with mask are to be used in oxygen-deficient atmospheres. Consult respiratory device supplier's product information for the selection of the appropriate device. Self contained breathing apparatus is recommended, where unknown exposure may be expected, e.g. during maintenance activities on installation systems. Standard EN 137 - Self-contained open-circuit compressed air breathing apparatus with full face mask.
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

: 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 properties

9.1. Information on basic physical and chemical properties

Appearance	
 Physical state at 20°C / 101.3kPa 	: Gas.
- Colour	: Colourless.
Odour	: Odourless.
Melting point / Freezing point	: -259 °C
	-259 °C
Boiling point	: -253 °C
Flammability	: Extremely flammable gas.
Lower explosion limit	: 4 vol %

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: 77 vol %
: Not applicable for gases and gas mixtures.
: 560 °C
: Not applicable.
: Not applicable for gases and gas mixtures.
: No reliable data available.
: 1.6 mg/l
: Not applicable for inorganic products.
: Not applicable.
: Not applicable.
: Not applicable for gases and gas mixtures.
: 0.07
: Not applicable for gases and gas mixtures. Nanoforms are not relevant for gases and gas mixtures.
rd classes
: Not applicable.
: 4 – 77 vol %
: Not applicable.
: -240 °C
: 2 g/mol
: Not applicable for gases and gas mixtures.
: Compressed gas.
: Compressed gas.
: Compressed gas.
: Compressed gas. : Burns with an invisible flame.
: Compressed gas.
: Compressed gas. : Burns with an invisible flame.
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 Compressed gas. Burns with an invisible flame. No reactivity hazard other than the effects described in sub-sections below. Stable under normal conditions. Can form explosive mixture with air. May react violently with oxidants. Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Avoid moisture in installation systems. Air, Oxidisers.
 Compressed gas. Burns with an invisible flame. No reactivity hazard other than the effects described in sub-sections below. Stable under normal conditions. Can form explosive mixture with air. May react violently with oxidants. Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Avoid moisture in installation systems.
 Compressed gas. Burns with an invisible flame. No reactivity hazard other than the effects described in sub-sections below. Stable under normal conditions. Can form explosive mixture with air. May react violently with oxidants. Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Avoid moisture in installation systems. Air, Oxidisers. For additional information on compatibility refer to ISO 11114.
 Compressed gas. Burns with an invisible flame. No reactivity hazard other than the effects described in sub-sections below. Stable under normal conditions. Can form explosive mixture with air. May react violently with oxidants. Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Avoid moisture in installation systems. Air, Oxidisers.

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- 11.1. Information on toxicological effects Acute toxicity
- : No known toxicological effects by inhalation from this product.

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Skin corrosion/irritation	: No known effects from this product.
Serious eye damage/irritation	: No known effects from this product.
Respiratory or skin sensitisation	: No known effects from this product.
Germ cell mutagenicity	: No known effects from this product.
Carcinogenicity	: No known effects from this product.
Toxic for reproduction : Fertility	: No known effects from this product.
Toxic for reproduction : unborn child	: No known effects from this product.
STOT-single exposure	: No known effects from this product.
STOT-repeated exposure	: No known effects from this product.
Aspiration hazard	: Not applicable for gases and gas mixtures.
11.2. Information on other hazards	
Other information	: The substance/mixture has no endocrine disrupting properties.

SECTION 12: Ecological information

12.1. Toxicity

Assessment	: No ecological damage caused by this product.		
EC50 48h - Daphnia magna [mg/l] EC50 72h - Algae [mg/l] LC50 96 h - Fish [mg/l]	 No data available. No data available. 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.		
12.5. Results of PBT and vPvB assessment			
Assessment	: Not classified as PBT or vPvB.		
12.6. Endocrine disrupting properties			
Assessment	: The substance/mixture has no endocrine disrupting properties.		
12.7. Other adverse effects			
Other adverse effects	: No known effects from this product.		
Effect on the ozone layer	: No effect on the ozone layer.		
Global warming potential [CO2=1]	: 6		
Effect on global warming	: When discharged in large quantities may contribute to the greenhouse effect.		
	Contains greenhouse gas(es).		
	Contains fluorinated greenhouse gases listed in Regulation 2024/573.		

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Air Liquide	Hydrogen	
	Reference number: 201	
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. Ensure that the emission levels from local regulations or operating permits are not exceeder. Refer to the EIGA code of practice Doc.30 "Disposal of Gases", downloadable at http://www.eiga.eu for more guidance on suitable disposal methods. Do not discharge into any place where its accumulation could be dangerous. Return unused product in original container to supplier. 16 05 04 *: Gases in pressure containers (including halons) containing hazardous substance 	
3.2. Additional information	: External treatment and disposal of waste should comply with applicable local and/or nationa regulations.	
SECTION 14: Transport information		
4.1. UN number		
	4040	
IN-No. 4.2. UN proper shipping name	: 1049	
Transport by road/rail/inland waterways (ADR/RID/ADN)	HYDROGEN, COMPRESSED	
Transport by air (ICAO-TI / IATA-DGR)	[:] Hydrogen, compressed	
Transport by sea (IMDG)	[:] HYDROGEN, COMPRESSED	
4.3. Transport hazard class(es)		
Labelling		
	2.1 : Flammable gases.	
Transport by road/rail/inland waterways (ADR/RID/ADN)		
Class	: 2	
Classification code	: 1F	
Hazard identification number Tunnel Restriction	: 23 · B/D - Tank carriage: Passage forbidden through tunnels of category B. C. D. and E. Other	
	: 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)) Emergency Schedule (EmS) - Fire	: 2.1 : F-D	
Emergency Schedule (EmS) - File Emergency Schedule (EmS) - Spillage	: S-U	
4.4. Packing group		
Transport by road/rail/inland waterways (ADR/RID/ADN)	: Not applicable	
Transport by air (ICAO-TI / IATA-DGR)	: Not applicable	
Transport by sea (IMDG)	: Not applicable	
AIR LIQUIDE SINGAPORE PTE LTD HEAD OFFICE : 2 VENTURE DRIVE, VISION EXCHANGE, #22-28,	EN (English) Reference number: 2010489	

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14.5. Environmental hazards		
Transport by road/rail/inland waterways (ADR/RID/ADN)	: 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/inland waterways (ADR/RID/ADN)	: P200	
Transport by air (ICAO-TI / IATA-DGR)		
Passenger and Cargo Aircraft	: Forbidde	n.
Cargo Aircraft only	: 200.	
Transport by sea (IMDG)	: P200	
Special transport precautions	: Avoid tra compart	insport on vehicles where the load space is not separated from the driver's nent.
		whicle driver is aware of the potential hazards of the load and knows what to do in the an accident or an emergency.
	Before t	ansporting 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. Seveso Directive : 2012/18/EU (Seveso III) : Listed. 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

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

O Air Liquide	Hydrogen		
	Reference number: 2010489		
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	: Ensure operators understand the flammability hazard.		
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		
Flam. Gas 1A	Flammable gases, Category 1A	
H220	Extremely flammable gas.	
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.