

**0-2ppm Methyl Mercaptan, 0-2ppm Ethyl Mercaptan, 0-5ppm H<sub>2</sub>S, 0-5ppm COS in Methane****AL730****Danger****SECTION 1. Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Trade name : 0-2ppm Methyl Mercaptan, 0-2ppm Ethyl Mercaptan, 0-5ppm H<sub>2</sub>S, 0-5ppm COS in Methane  
SDS Nr : AL730

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

Relevant identified uses : Industrial and professional. Perform risk assessment prior to use.  
Test gas / Calibration gas. Laboratory use Contact supplier for more uses information

**1.3. Details of the supplier of the safety data sheet**

Company identification : Air Liquide Australia Limited  
Level 9 / 380 St. Kilda Road  
Melbourne VIC 3004 Australia  
Tel: + 61 3 9697 9888  
Fax: + 61 3 9690 7107  
ALAEquiries@AirLiquide.com

**1.4. Emergency telephone number**

Emergency telephone number : 1800 812 588

**SECTION 2. Hazards identification****2.1. Classification of the substance or mixture****Hazard Class and Category Code Regulation EC 1272/2008 (CLP)**

• Physical hazards : Flammable gases - Category 1 - Danger - (CLP : Flam. Gas 1) - H220  
Gases under pressure - Compressed gas - Warning - (CLP : Press. Gas) - H280

**Classification EC 67/548 or EC 1999/45**

: F+; R12

**2.2. Label elements****Labelling Regulation EC 1272/2008 (CLP)**

## • Hazard pictograms



• Hazard pictograms code : GHS02 - GHS04

• Signal word : Danger

• Hazard statements : H220 - Extremely flammable gas.  
H280 - Contains gas under pressure; may explode if heated.

## • Precautionary statements

- Prevention : P210 - Keep away from heat, sparks, open flames or hot surfaces. – No smoking.

- Response : P377 - Leaking gas fire: Do not extinguish, unless leak can be stopped safely.  
P381 - Eliminate all ignition sources if safe to do so.

- Storage : P403 - Store in a well-ventilated place.

**2.3. Other hazards**

: None.

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**SECTION 2. Hazards identification (continued)**
**SECTION 3. Composition/information on ingredients**
**3.1. Substance / 3.2. Mixture**
**Mixture.**

Substance name	Contents	CAS No	EC No	Annex No		Classification
Hydrogen sulphide	:	7783-06-4	231-977-3	016-001-00-4	* 2	F+; R12 T+; R26 N; R50 ----- Flam. Gas 1 (H220) Acute Tox. 2 (H330) Liq. Gas (H280) Aquatic Acute 1 (H400)
Carbonyl sulphide	:	463-58-1	207-340-0	-----	* 2	F+; R12 T; R23 ----- Flam. Gas 1 (H220) Acute Tox. 3 (H331) Liq. Gas (H280)
Methanethiol	:	74-93-1	200-822-1	016-021-00-3	* 2	F+; R12 T; R23 N; R50-53 ----- Flam. Gas 1 (H220) Acute Tox. 3 (H331) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) Liq. Gas (H280)
Ethyl mercaptan	:	75-08-1	200-837-3	016-022-00-9	-----	F; R11 Xn; R20 N; R50-53 ----- Acute Tox. 4 (H332) Flam. Liq. 2 (H225) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)
Methane	:	74-82-8	200-812-7	601-001-00-4	* 1	F+; R12 ----- Flam. Gas 1 (H220) Press. Gas (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.

\* 2: Registration deadline not expired.

\* 3: Registration not required: Substance manufactured or imported < 1t/y

Full text of R-phrases see chapter 16. Full text of H-statements see chapter 16

**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. Apply artificial respiration 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 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. Refer to section 11.

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

- : None.

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- Suitable extinguishing media : All known extinguishants can be used.

**5.2. Special hazards arising from the substance or mixture**

Specific hazards : Exposure to fire may cause containers to rupture/explode.

Hazardous combustion products : Incomplete combustion may form carbon monoxide. None that are more toxic than the product itself.

**5.3. Advice for fire-fighters**

Specific methods : Do not extinguish a leaking gas flame unless absolutely necessary. Spontaneous/explosive re-ignition may occur. Extinguish any other fire. Coordinate fire measure to the surrounding fire. Cool endangered containers with water spray jet from a protected position. Do not empty contaminated fire water into drains. If possible, stop flow of product.

Special protective equipment for fire fighters : In confined space use self-contained breathing apparatus.

**SECTION 6. Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

: Evacuate area.  
Try to stop release.  
Ensure adequate air ventilation.  
Eliminate ignition sources.  
Consider the risk of potentially explosive atmospheres.

**6.2. Environmental precautions**

: Try to stop release.

**6.3. Methods and material for containment and 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**

: Take precautionary measures against static discharge.  
Purge air from system before introducing gas.  
Keep away from ignition sources (including static discharges).  
Do not smoke while handling product.  
Assess the risk of potentially explosive atmosphere and the need for explosion-proof equipment.  
Consider the use only non-sparking tools.  
Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt.  
Only experienced and properly instructed persons should handle gases under pressure.  
The product must be handled in accordance with good industrial hygiene and safety procedures.  
Ensure the complete gas system was (or is regularly) checked for leaks before use.

**Safe handling of the gas receptacle**

: Refer to supplier's container handling instructions.  
Do not allow backfeed into the container.  
Protect cylinders 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 cylinder valve discontinue use and contact supplier.  
Never attempt to repair or modify container valves or safety relief devices.

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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 cylinder contents.

**7.2. Conditions for safe storage, including 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 potentially explosive atmosphere.  
Keep away from combustible materials.  
Keep container below 50°C in a well ventilated place.  
Observe all regulations and local requirements regarding storage of containers.  
Containers should not be stored in conditions likely to encourage corrosion.  
Containers should be stored in the vertical position and properly secured to prevent toppling.  
Stored containers should be periodically checked for general condition and leakage.  
Container valve guards or caps should be in place.  
Store containers in location free from fire risk and away from sources of heat and ignition.

**7.3. Specific end use(s)**

: None.

**SECTION 8. Exposure controls/personal protection****8.1. Control parameters****Occupational Exposure Limits****Methanethiol**

: MAK (AU) Tagesmittelwert (ml/m<sup>3</sup>) : 0.5  
: MAK (AU) Tagesmittelwert (mg/m<sup>3</sup>) : 1  
: MAK (AU) Kurzzeitwerte (ml/m<sup>3</sup>) : 0.5  
: MAK (AU) Kurzzeitwerte (mg/m<sup>3</sup>) : 1  
: TLV<sup>®</sup> -TWA [ppm] : 0.5  
: LTEL - UK [mg/m<sup>3</sup>] : 1  
: LTEL - UK [ppm] : 0.5  
: VME - France [mg/m<sup>3</sup>] : 1  
: VME - France [ppm] : 0.5  
: AGW (8h) - Germany [mg/m<sup>3</sup>] TRGS 900 : 0.5  
: AGW (8h) - Germany [ppm] TRGS 900 : 1  
: Exceeding factor AGW - Germany TRGS 900 : 2  
: VLA-ED - Spain [ppm] : 0.5  
: VLA-ED - Spain [mg/m<sup>3</sup>] : 1  
: NGV - [ppm] : 1  
: Grænserværdier (DK) (ppm) : 0.5  
: HTP-vården (FI) - 8 H - [ppm] : 0.5  
: HTP-vården (FI) - 8 H - [mg/m<sup>3</sup>] : 1  
: HTP-vården - 15min - [ppm] : 1.5  
: Grænserværdier (DK) : 1  
: HTP-vården - 15min - [mg/m<sup>3</sup>] : 3  
: GV Value Limit (Norway) [ppm] : 0.5  
: GV Value Limit (Norway) [mg/m<sup>3</sup>] : 1  
: 8-Hour TWA (PL) (NDS) (mg/m<sup>3</sup>) : 1

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**SECTION 8. Exposure controls/personal protection (continued)**

<b>Ethyl mercaptan</b>	: 15-Minute STEL (PL)(NDSch) (mg/m <sup>3</sup> ) : 2 : TLV-TWA (Belgium) (ppm) : 0.5 : MAK (AU) Tagesmittelwert (ml/m <sup>3</sup> ) : 5 : MAK (AU) Tagesmittelwert (mg/m <sup>3</sup> ) : 1 : MAK (AU) Kurzzeitwerte (mg/m <sup>3</sup> ) : 1 : MAK (AU) Kurzzeitwerte (ml/m <sup>3</sup> ) : 5 : TLV© -TWA [ppm] : 0.5 : LTEL - UK [mg/m <sup>3</sup> ] : 1.3 : LTEL - UK [ppm] : 5.2 : LTEL - UK [ppm] : 0.5 : STEL - UK [mg/m <sup>3</sup> ] : 2 : VME - France [mg/m <sup>3</sup> ] : 1 : VME - France [ppm] : 0.5 : AGW (8h) - Germany [mg/m <sup>3</sup> ] TRGS 900 : 1.3 : AGW (8h) - Germany [ppm] TRGS 900 : 0.5 : Exceeding factor AGW - Germany TRGS 900 : 2 : VLA-ED - Spain [ppm] : 0.5 : VLA-ED - Spain [mg/m <sup>3</sup> ] : 1.3 : Grænserværdier (DK) (ppm) : 0.5 : HTP-vården - 15min - [ppm] : 0.5 : Grænserværdier (DK) : 1 : HTP-vården - 15min - [mg/m <sup>3</sup> ] : 1.3 : GV Value Limit (Norway) [ppm] : 0.5 : GV Value Limit (Norway) [mg/m <sup>3</sup> ] : 1 : 8-Hour TWA (PL) (NDS) (mg/m <sup>3</sup> ) : 1 : 15-Minute STEL (PL)(NDSch) (mg/m <sup>3</sup> ) : 2 : TLV-TWA (Belgium) (ppm) : 0.5
<b>Hydrogen sulphide</b>	: Value 8h (CZ) [mg/m <sup>3</sup> ] : 10 : ILV (EU) - 8 H - [mg/m <sup>3</sup> ] : 7 : ILV (EU) - 8 H - [ppm] : 5 : ILV (EU) - 15 min - [mg/m <sup>3</sup> ] : 14 : ILV (EU) - 15 min - [ppm] : 10 : TLV© -TWA [ppm] : 5 : LTEL - UK [ppm] : 10 : VLE - France [mg/m <sup>3</sup> ] : 14 : VLE - France [ppm] : 10 : VME - France [mg/m <sup>3</sup> ] : 7 : VME - France [ppm] : 5 : AGW (8h) - Germany [mg/m <sup>3</sup> ] TRGS 900 : 10 : AGW (8h) - Germany [ppm] TRGS 900 : 14 : Exceeding factor AGW - Germany TRGS 900 : 1 : MAK (AU) Tagesmittelwert (ml/m <sup>3</sup> ) : 10 : MAK (AU) Tagesmittelwert (mg/m <sup>3</sup> ) : 15 : MAK (AU) Kurzzeitwerte (ml/m <sup>3</sup> ) : 10 : MAK (AU) Kurzzeitwerte (mg/m <sup>3</sup> ) : 15 : VLA-ED - Spain [ppm] : 10 : VLA-ED - Spain [mg/m <sup>3</sup> ] : 14 : VLA-EC - Spain [ppm] : 15 : VLA-EC - Spain [mg/m <sup>3</sup> ] : 21

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**SECTION 8. Exposure controls/personal protection (continued)**

- : NGV - [ppm] : 10
- : NGV - [mg/m<sup>3</sup>] : 14
- : TGV - [mg/m<sup>3</sup>] : 20
- : TGV - [ppm] : 15
- : HTP-värden (FI) - 8 H - [ppm] : 10
- : HTP-värden (FI) - 8 H - [mg/m<sup>3</sup>] : 14
- : Grænserværdier (DK) (ppm) : 10
- : Grænserværdier (DK) (ppm) : 15
- : Grænserværdier (DK) : 15
- : HTP-värden - 15min - [ppm] : 15
- : HTP-värden - 15min - [mg/m<sup>3</sup>] : 21
- : GV Value Limit (Norway) [ppm] : 10
- : GV Value Limit (Norway) [mg/m<sup>3</sup>] : 15
- : 8-Hour TWA (PL) (NDS) (mg/m<sup>3</sup>) : 10
- : 15-Minute STEL (PL)(NDSCh) (mg/m<sup>3</sup>) : 20
- : Value 15min. (CZ) [mg/m<sup>3</sup>] : 20

**DNEL: Derived no effect level**

: None available.

**PNEC: Predicted no effect concentration**

: None available.

**8.2. Exposure controls**
**8.2.1. Appropriate engineering controls**

- : Systems under pressure should be regularly checked for leakages.
- : Provide adequate general and local exhaust ventilation.
- : Gas detectors should be used when flammable gases/vapours may be released.
- : Ensure exposure is below occupational exposure limits (where available).
- : Keep concentrations well below lower explosion limits.
- : Consider work permit system e.g. for maintenance activities.

**8.2.2. Individual protection measures, e.g. personal protective equipment**

- : Consider the use of flame resistant anti-static safety clothing.
- : 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.
- : Wear safety glasses with side shields
- : Wear leather safety gloves and safety shoes when handling cylinders.

**8.2.3. Environmental exposure controls**

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

**SECTION 9. Physical and chemical properties**
**9.1. Information on basic physical and chemical properties**
**Appearance**

- Physical state at 20°C / 101.3kPa : Gas.
- Colour : Colourless gas.
- Odour : Rotten eggs.
- Odour threshold : Odour threshold is subjective and inadequate to warn for overexposure.
- pH value : Not applicable for gas-mixtures.
- Molar mass [g/mol] : Not applicable for gases and gas-mixtures.
- Melting point [°C] : Not applicable for gas-mixtures.
- Boiling point [°C] : Not applicable for gas-mixtures.
- Flash point [°C] : Not applicable for gas-mixtures.
- Evaporation rate (ether=1) : Not applicable for gas-mixtures.
- Flammability range [vol% in air] : Not applicable for gas-mixtures.
- Vapour pressure [20°C] : Not applicable.

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Relative density, gas (air=1)	: Lighter or similar to air.
Solubility in water [mg/l]	: Not known, but considered to have low solubility.
Partition coefficient n-octanol/water	: Not applicable for gas-mixtures.
Viscosity at 20°C [mPa.s]	: Not applicable.
Explosive Properties	: Not applicable.

**9.2. Other information**

Other data	: None.
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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**: May react violently with oxidants.  
Can form explosive mixture with air.**10.4. Conditions to avoid**

: Keep away from heat/sparks/open flames/hot surfaces. – No smoking.

**10.5. Incompatible materials**

: May react with oxidizing materials.

**10.6. Hazardous decomposition products**

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

**SECTION 11. Toxicological information****11.1. Information on toxicological effects**

Acute toxicity	: No known toxicological effects from this product.
Rat inhalation LC50 [ppm/4h]	: • Hydrogen sulphide : 356 • Carbonyl sulphide : 850 • Methanethiol : 675 • Ethyl mercaptan : 8840
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.
Carcinogenicity	: No known effects from this product.
Germ cell mutagenicity	: 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.

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: No data available.

**12.2. Persistence - degradability**

: No data available.

**12.3. Bioaccumulative potential**

: No data available.

**12.4. Mobility in soil**

: No data available.

**12.5. Results of PBT and vPvB assessment**

: No data available.

**12.6. Other adverse effects**

Effect on ozone layer

: None.

Effect on the global warming

: Contains greenhouse gas(es) not covered by 842/2006/EC

**SECTION 13. Disposal considerations****13.1. Waste treatment methods**

: 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 code of practice of EIGA (Doc. 30/10 "Disposal of Gases, downloadable at <http://www.eiga.org>) for more guidance on suitable disposal methods  
Contact supplier if guidance is required.

**13.2. Additional information**

: None.

**SECTION 14. Transport information**

UN number

: 1954

Labelling ADR, IMDG, IATA



: 2.1 : flammable gas.

**Land transport (ADR/RID)**

H.I. nr

: 23

UN proper shipping name

: COMPRESSED GAS, FLAMMABLE, N.O.S. (Methane)

Transport hazard class(es)

: 2

Classification code

: 1 F

Packing Instruction(s)

: P200

Tunnel Restriction

: B/D Tank carriage: Passage forbidden through tunnels of category B, C, D

HAZCHEM - Emergency Action Code

: 2SE

2 = Fine water spray.

S = Risk of violent reaction or explosion. Recommended personal protective equipment : Full fire kit and breathing apparatus. Appropriate measures : dilute.

E = There may be a public safety hazard outside the immediate area of the incident, and that the following actions should be considered :

1. People should be warned to stay indoors with all doors and windows closed, preferably in rooms upstairs and facing away from the incident. Ignition sources should be eliminated and



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- any ventilation stopped.
- Effects may spread beyond the immediate vicinity. all non-essential personnel should be instructed to move at least 250 metres away from the incident.
  - Police and fire brigade incident commanders should consult each other and with a product expert, or with a source of product expertise.
  - The possible need for subsequent evacuation should be considered, but it should be remembered that in most cases it will be safer to remain in a building than to evacuate.

**Sea transport (IMDG)**

- Proper shipping name : COMPRESSED GAS, FLAMMABLE, N.O.S. (Methane)  
Class : 2.1  
Emergency Schedule (EmS) - Fire : F-D  
Emergency Schedule (EmS) - Spillage : S-U  
Packing instruction : P200

**Air transport (ICAO-TI / IATA-DGR)**

- Proper shipping name (IATA) : COMPRESSED GAS, FLAMMABLE, N.O.S. (Methane)  
Class : 2.1  
Passenger and Cargo Aircraft : DO NOT LOAD IN PASSENGER AIRCRAFT.  
Cargo Aircraft only : Allowed.  
Packing instruction - Cargo Aircraft only : 200

**Special precautions for user**

- : 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 cylinder 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.

**SECTION 15. Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU legislation**

- Seveso directive 96/82/EC : Covered

**National legislation**

- : Ensure all national/local regulations are observed.

**15.2. Chemical Safety Assessment**

- : A CSA does not need to be carried out for this product.

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<b>Indication of changes</b>	: Revised safety data sheet in accordance with commission regulation (EU) No 453/2010
<b>Training advice</b>	: Ensure operators understand the flammability hazard. Receptacle under pressure.
<b>List of full text of R-phrases in section 3.</b>	: R11 : Highly flammable. R12 : Extremely flammable. R20 : Harmful by inhalation. R23 : Toxic by inhalation. R26 : Very toxic by inhalation. R50 : Very toxic to aquatic organisms. R50/53 : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
<b>List of full text of H-statements in section 3.</b>	: H220 - Extremely flammable gas. H225 - Highly flammable liquid and vapour. H280 - Contains gas under pressure; may explode if heated. H330 - Fatal if inhaled. H331 - Toxic if inhaled. H332 - Harmful if inhaled. H400 - Very toxic to aquatic life. H410 - Very toxic to aquatic life with long lasting effects.
<b>Further information</b>	: Classification in accordance with calculation methods of regulation (EC) 1272/2008 CLP / (EC) 1999/45 DPD. This Safety Data Sheet has been established in accordance with the applicable European Union legislation.
<b>DISCLAIMER OF LIABILITY</b>	: 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.

The contents and format of this SDS are in accordance with EC Commission Directive 2001/58/EC.

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