Harvest Wise Gases (H.K.) Company Limited

Material Safety Data Sheet
Methane, Compressed

Creation date: 29-Jul-2020

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

Product name:	Methane, Compressed
Chemical formula:	CH_4
Company identification:	Harvest Wise Gases (H.K.) Company Limited
Emergency phone number (24hr):	25534121

2 Hazards identification

It is extremely flammable product which contains gas under pressure and may explode if heated

3 Composition/information on ingredients

Components/Impurities: Methane, compressed.

CAS registry no. : 74-82-8

EC no. (from EINECS) : 200-812-7

It does not contain any other components or impurities which can influence the classification of the product.

4 First aid measures

Ingestion

Ingestion is not considered a common mean of way of contact.

Inhalation

Asphyxiation may be caused by inhalation in high concentrations of gases. Loss of mobility or consciousness is one of Symptoms. Victim may not be aware of asphyxiation. Remove victim to uncontaminated area wearing self contained breathing apparatus. Keep victim warm and rested. Call a doctor. If breathing stopped, apply artificial respiration.

5 Firefighting measure

Specific hazards

Explosion or rupture may occur if the container is near fire source.

Harm from combustion products

Carbon monoxide may be given out during incomplete combustion.

Suitable extinguishing media

All types of different fire extinguishers can be used.

Specific methods

Explosive firing or spontaneous reignition may occur. Thus don't try to extinguish a leaking gas flame unless it is absolutely required. Also, stopping the flow of the chemical should be carried out if possible.

Special protective equipment for fire fighters

Self contained breathing apparatus should be used especially in confined spaces. Portable gas detector and walkie talkie should be carried by the fire fighters if the fire is in confined or enclosed spaces.

6 Accidental release measure

Personal precautions

Evacuate the area and ensure adequate air ventilation is provided. Try to eliminate any ignition sources if possible. Self contained breathing apparatus should be used especially in confined spaces.

Environmental precautions

The release of the gases should be stopped by any possible methods.

Clean up methods

Natural ventilation or force draft ventilation of the contaminated area should be a standard procedure.

7 Handling and storage

Handling

Only properly manufactured and certified equipment should be used together with this chemical. The complete equipment should be ground to prevent spark which can cause firing or even explosion. Sucking back of water into the gas cylinder must be prevented. The complete equipment should be stored away from fire source. Cylinder must be handled and stored in an upright position. Close valve after each use even the cylinder is empty. Just in case if you have any doubts, you are welcome to contact us at any time.

Storage

The pressure vessel should be secured tightly in a well ventilated space and kept under 50°C.

Separating them from flammable gases, especially dissolved acetylene, is required.

8 Exposure controls/personal protection

Personal protection

Proper personal protective equipment should be worn, for example, chemical gloves, safety goggles, safety helmet. Adequate ventilation is required. Smoking should be strictly prohibited. Apply a suitable flameproof ventilation system separate from other exhaust ventilation systems. Exhaust system should be set up to provide sufficient replacement air to make up for air removed. Reduce exposures by mechanical ventilation, process or personal enclosure, and control of process conditions.

9 Physical and chemical properties

General information

General appearance: Colourless gas.

Odour: odorless

Important information on environment, health and safety

Chemical formula: CH_4

Molecular mass: 16 $gmol^{-1}$

Density: Not applicable

Melting point: -182 °C

Boiling point: -161 °C

Critical temperature: -82 °C

Autoignition temperature: 595 °C

Vapor pressure: Not applicable

Magnetic susceptibility: Not applicable

Solubility in water: 26 mg/l

10 Stability and reactivity

Stability and reactivity

Explosive mixture may form when react with air and other oxidants. Avoid heat, flames, sparks and other sources of ignition. Cylinder may rupture or explode if exposed to heat

11 Toxicological information

General

No known toxicological effects are found out.

12 Ecological information

General

No known ecological effects are found out.

13 Disposal considerations

General

Waste gas can be purged out to fully ventilated space. Don't release near any combustible materials.

14 Transport information

IMDG

Class 2.1

UN number and proper shipping name

UN 1971 Methane, compressed

Labels	2.1
Packing Instruction	P200
EmS	FD, SU

ADR/RID

Class	2	Classification Code	1F

UN number and proper shipping name

UN 1971 Methane, compressed

UN 1971 Methane, compressed

Labels	2.1	Hazard number	23
Packing Instruction	P200		

IATA

Class	2.1

UN number and proper shipping name

UN 1971 Methane, compressed

Labels	2.1
Packing Instruction	P200

Other transport information

Vehicle driver should have basic understanding of the risk of the chemical and what should be done in emergency. The gas cylinder should be properly secured to prevent falling down when the vehicle is moving. The cylinder valves and safety devices would be checked by our professional personnel before the cylinders leave our company.

15 Regulatory information

General

All the local regulation should be strictly followed before using the gases. All the related personnel should receive proper training before using the gases.

Chemical safety assessment

Risk assessment should be carried out by proper qualified person before using the gases.

16 Other information

This MSDS should be fully understood before using the gases. Contact us if you have any doubt. Meanwhile, We do not have any liability for damage or injury caused due the usage of this MSDS. Due to proper preparation of this MSDS, all the details are believed to be correct at the time of releasing.