

编 码:

产品名称: 压缩天然气



危险

极端易燃气体。内装高压气体：遇热可能爆炸。

预防:

远离热源/火花/明火/热表面。禁止吸烟。

反应:

漏气着火：切勿灭火，除非漏气能够安全地制止。除去一切点火源，如果这么做没有危险。

储存

存放在通风良好的地方。防日晒。

处置:

/

化学品安全数据单

一、标识

全球统一制度产品标识符：天然气/Liquefied natural gas。

其它标识办法：/

化学品使用建议和使用限制：本品可作为燃料。

供货商的详细情况：

紧急电话号码：/

二、危险标识

物质或混合物的分类：

易燃气体第1类

高压气体（冷冻液化气体）。

全球统一制度标签要素，包括防范说明：



信号词：危险。

危险说明：极易燃气体。内装冷冻液化气体；可能造成低温灼伤或损伤。

防范说明：

预防：

远离热源、热表面、火花、明火和其他点火源。禁止吸烟。戴防寒手套和防护面具或防护眼镜。

反应：

漏气着火：切勿灭火，除非可安全堵住泄漏。万一泄漏，除去一切点火源。用微温水化解冻伤部位。避免揉搓患处。立即求医/就诊。

贮存：

存放于通风良好处。

处置：/

不导致分类的其他危险：/

三、组成/成分信息

化学名称	化学文摘社编号 (CAS No.)	成分（由送检 企业提供）
甲烷	74-82-8	93.46%
乙烷	74-84-0	6.45%

四、急救措施

不同暴露途径的急救方法

吸入：迅速脱离现场至空气新鲜处。保持呼吸道通畅。如呼吸困难，给输氧。如呼吸停止，立即进行人工呼吸。就医。

皮肤接触：如冻伤，用微温水化解冻伤部位。避免揉搓患处。迅速就医。

眼睛接触：立即提起眼睑，用大量流动清水或生理盐水彻底冲洗至少 15 分钟。就医。

摄入： /

最重要的急性和延迟症状/效应： /

必要时注明立即就医及所需的特殊治疗： /

五、消防措施

适当的灭火剂：用干粉、二氧化碳、大量水雾等灭火。

化学品产生的具体危险：高度易燃气体，其蒸汽可与空气形成爆炸性混合物，遇高热、明火有起火爆炸的危险。

消防人员的特殊防护行动：消防人员必须配戴空气呼吸器、消防衣及防护手套。切断气源，如不能关闭泄漏处且对周围无危险，应让火稳定燃烧。

六、意外释放措施

人身防范、保护设备和应急程序：建议应急处理人员戴防护口罩，穿消防工作服。不要直接接触泄漏物。

环境防范措施：隔离泄漏污染区，限制出入。

抑制和清洁的方法和材料：处理时加强现场通风。

七、搬运与储存

安全搬运的防范措施：密闭操作，局部排风。操作人员必须经过专门培训，严格遵守操作规程。建议操作人员佩戴防毒面具。搬运时轻装轻卸，防止包装破损。配备泄漏应急处理设备。

安全存储的条件，包括任何不相容性：储存于阴凉、干燥、通风良好的库房。远离火种、热源。防止阳光直射。应与易（可）燃物等分开存放。

八、接触控制/人身保护

控制参数： /

适当的工程控制：严加密闭，提供充分的局部排风。

个人防护措施

防护眼罩/面具： /

皮肤防护： /

呼吸系统防护：紧急事态抢救或撤离时，应该佩戴空气呼吸器。

高温危险： /

九、物理及化学性质

外观（物理状态、颜色等）	钢瓶中的液化气体。
气味	/
气味阈值	/
pH 值	/
熔点/凝固点	/
初始沸点和沸腾范围	/
闪点	/
蒸发速率	/
易燃性（固态、气态）	/
上下易燃极限或爆炸极限	/
蒸气压力	/
蒸气密度	/
相对密度	0.438（-159.3℃）。
可溶性	不溶于水。
分配系数：正辛醇/水	/
自动点火温度	/
分解温度	/
粘度	/

十、稳定及反应性

反应性： /

化学稳定性： 在常温下稳定。

危险反应的可能性： /

应避免的条件： 火星、高温、静电。

不相容材料： 易燃或可燃物。

危险分解产物： 一氧化碳、二氧化碳。

十一、毒理学信息

暴露途径： 吸入，眼睛接触。

有关物理、化学和毒理学特点的症状： /

急性毒性效应： 吸入后会导致咳嗽、咽喉刺激。皮肤和眼睛接触会导致疼痛、冻伤。

慢性毒性或长期毒性效应： /

毒性的数值度量（如急性毒性估计值）：

十二、生态信息

毒性： /

持久性和降解性： 低（乙烷）。

生物累积潜力： 低（甲烷）/低（乙烷）。

在土壤中的流动性： 低（乙烷）。

其它有害效应： /

十三、处置考虑

处置方法： 用安全掩埋法处置。破损容器禁止重新使用，要在规定场所掩埋。

十四、运输信息

联合国编号: 1972。 联合国正式运输名称: 甲烷含量高的冷冻液态天然气。 运输危险分类: 2.1。 包装类别 (如果适用): / 环境危险: / 用户的特殊防范措施: /
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十五、管理信息

国内化学品安全法规: 本化学品安全数据单遵照了以下相关国家标准: GB 16483-2008、GB 13690-2009、GB 6944-2012、GB/T 15098-2008、GB 18218-2009、GB 15258-2009、GB 190-2009、GB 191-2009、GB 12268-2008、GA 57-1993、GBZ 2-2007 以及相关法规:《铁路危险货物运输管理规则》、《危险化学品安全管理条例》。

十六、其它信息

参考文献	联合国《关于危险货物运输的建议书·规章范本》 联合国《全球化学品统一分类和标签制度》
制表日期	2015-6-12

注 1: 当产品为含有两种以上危险物质的混合物时, 应依据其混合后的危险性, 制作安全数据单。

注 2: 制造商/供应商应根据实际情况确保安全数据单所含信息的正确性, 并适时更新。

注 3: 如由于产品特性而不存在或不可得某些信息时 (如固体不存在沸点), 应在表格中以“/”标识。

Chemical Safety Data Sheet

Section 1 IDENTIFICATION

GHS Product identifier: Liquefied natural gas

Other means of identification: /

Recommended use of the chemical and restrictions on use: This material can be used as fuel.

Supplier's details: /

Emergency phone number: /

Section 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture:

Flammable gases Category 1

Gases under pressure (Refrigerated liquefied gas)

GHS Label elements, including precautionary statements:



Signal word: Danger

Hazard statement(s): Extremely flammable gas. Contains refrigerated gas; may cause cryogenic burns or injury.

Precautionary statement(s):

Prevention:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear cold insulating gloves/face shield/eye protection.

Response:

Leaking gas fire: Do not extinguish, unless leak can be stopped safely. In case of leakage, eliminate all ignition sources. Thaw frosted parts with lukewarm water. Do not rub affected area.

Get immediate medical advice/attention.

Storage:

Store in well-ventilated place.

Disposal: /

Other hazards which do not result in classification: /

Section 3 COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Concentration%
Methane	74-82-8	93.46%
Ethane	74-84-0	6.45%

Section 4 FIRST AID MEASURES

Description of necessary first aid measures

If inhaled: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact: On frostbite: thaw frosted parts with lukewarm water. Do not rub affected area.

In case of eye contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If Ingestion: /

Most important symptoms/effects, acute and delayed: /

Indication of immediate medical attention and special treatment needed, if necessary: /

Section 5 FIREFIGHTING MEASURES

Suitable extinguishing media: Use water spray, powder, carbon dioxide to extinguish.

Special hazards arising from the chemical: Vapour are highly flammable. May explode and burn in high temperature and fire and release toxic fumes.

Special protective actions for fire-fighters: Wear self-contained breathing apparatus for firefighting if necessary. Use water spray to cool unopened containers. Shut off gas supply; if not possible and no risk to surroundings, let the fire burn itself out.

Section 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Use personal protective equipment. Avoid breathing vapors, mist or gas. Remove all sources of ignition. Evacuate personnel to safe areas.

Environmental precautions: Prevent further leakage or spillage if safe to do so.

Methods and materials for containment and cleaning up: Ensure adequate ventilation in leak area.

Section 7 HANDLING AND STORAGE

Precautions for safe handling: Wear protective gloves/eye protection/face protection/protective clothing. Avoid inhalation of vapour. Keep away from sources of ignition - No smoking.

Conditions for safe storage, including any incompatibilities: Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Keep away from flammable materials.

Section 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters: /

Appropriate engineering controls: Local exhaust ventilation or a process enclosure ventilation system may be required.

Individual protection measures

Eye/face protection: /

Skin protection: /

Respiratory protection: Selection of the Class and Type of respirator will depend upon the level of breathing zone contaminant and the chemical nature of the contaminant.

Thermal hazards: /

Section 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, colour etc)	Liquefied gas in cylinder.
Odour	/
Odour Threshold	/
pH	/
Melting point/freezing point	/
Initial boiling point and boiling range	/
Flash point	/
Evaporation rate	/
Flammability (solid, gas)	/
Upper/lower flammability or explosive limits	/
Vapour pressure	/
Vapour density	/
Relative density	0.438(-159.3°C).
Solubility(ies)	Insoluble in water.
Partition coefficient: n-octanol/water	/
Auto-ignition temperature	/
Decomposition temperature	/
Viscosity	/

Section 10 STABILITY AND REACTIVITY

Reactivity: /

Chemical stability: This material is stable in normal temperature.

Possibility of hazardous reactions: /

Conditions to avoid: Spark, high temperature and static electricity.

Incompatible materials: Flammable materials.

Hazardous decomposition products: Oxycarbides.

Section 11 TOXICOLOGICAL INFORMATION

Information on the likely routes of exposure: Inhaled and eyes.

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

Acute health effects: Accidental ingestion of the material may be harmful and cause cough, throat irritation. This material may cause skin and eyes frostbite.

Chronic health effects: /

Numerical measures of toxicity(such as acute toxicity estimates): /

Section 12 ECOLOGICAL INFORMATION

Toxicity: /

Persistence and degradability: Low (Ethane).

Bioaccumulative potential: Low (Methane)/Low (Ethane).

Mobility in soil: Low (Ethane).

Other adverse effects: /

Section 13 DISPOSAL CONSIDERATIONS

Disposal methods: Burial in a land-fill specifically licensed to accept chemical. Reuse of broken container is forbidden.

Section 14 TRANSPORT INFORMATION

UN number: 1972.

UN proper shipping name: NATURAL GAS, REFRIGERATED LIQUID with high methane content.

Transport hazard class(es) : 2.1.

Packing group, if applicable: /

Environmental hazards: /

Special precautions for user: /

Section 15 REGULATORY INFORMATION

Regulations: This safety data sheet is in compliance with the following national standards: GB 16483-2008, GB 13690-2009, GB/T 15098-2008, GB 18218-2009, GB 15258-2009, GB 6944-2012, GB 190-2009, GB 191-2009, GB 12268-2008, GA 57-1993, GBZ 2-2007 as well as the following national regulations: Dangerous Goods Transport Administrative Regulation [Published by the Ministry of Railways, 2008], Dangerous Chemicals Safety Administrative Regulation [Published by the State Council, 2011].

Section 16 OTHER INFORMATION

References	UN Recommendations on the Transport of Dangerous Goods Model Regulations UN Globally Harmonized System of Classification and Labelling of Chemicals
Form Date	12-June-2015

Note 1: When products contain two or more hazardous substances, Safety Data Sheets should be prepared based on the risk of the mixture.

Note 2: Manufacturer / supplier should ensure the correctness of the information contained in the safety data sheets, and updated in a timely manner.

Note 3: As a result of product features without the existence of certain information or no data available (such as boiling point does not exist for the solid) in the table with "/" logo.



甲烷含量高的冷冻液态天
然气

NATURAL GAS, REFRIGERATED LIQUID
with high methane content

UN 1972

或



压缩甲烷或甲烷含量高的
压缩天然气

METHANE, COMPRESSED or
NATURAL GAS, COMPRESSED
with high methane content

UN 1971