

编 码：

产品名称：丙烷



危 险

极易燃气体。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。

**贮存：**

存放在通风良好的地方。防日晒。

**处置： /**

CODE:

PRODUCT NAME: Propane



**Danger**

**Extremely flammable gas. Contains gas under pressure; may explode if heated.**

**Prevention:**

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

**Response:**

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

**Storage:**

Store in well-ventilated place. Protect from sunlight.

**Disposal: /**

# 化学品安全数据单

## 一、标识

物品名称：丙烷。

其它名称： /

使用建议及使用限制： /

制造商或供货商名称、地址及电话： /

紧急联络电话/传真电话： /

## 二、危险标识

物质或混合物的分类：

易燃气体类别 1，高压气体（液化气体）。

全球统一制度标签要素，包括防范说明：

象形图：



信号词：危险。

危险说明：极易燃气体。内装高压气体；遇热可能爆炸。

防范说明：

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。

贮存：存放在通风良好的地方。防日晒。

处置： /

不导致分类的其他危险（例如尘爆危险）或不为全球统一制度覆盖的其他危险： /

## 三、组成/成分信息

化学名称	化学文摘社登记号码（CAS No.）	含量%
丙烷	74-98-6	95.3

## 四、急救措施

必要的急救措施

吸入：如果吸入，请将患者移到新鲜空气处。如果停止了呼吸，给予人工呼吸。求医。

皮肤接触：用肥皂和大量的水冲洗。求医。

眼睛接触：用大量水彻底冲洗至少 15 分钟。就医。

食入：不认为是一种正常的进入体内的方式。

最重要的急性和延迟症状/效应：头晕，昏睡，失去知觉。

必要时注明立即就医及所需的特殊治疗： /

## 五、消防措施

**适用和不适用的灭火剂：**除非能安全地堵塞泄漏，禁止试图扑灭燃烧的气体。否则：让气体自行燃烧。小火情况：采用化学干粉，CO<sub>2</sub>或雾状水(仅用在绝对需要和安全时)。禁止用射流水灭火。大火情况：用大量水直接冲容器的上盖冷却，直至火焰熄灭一段时间后。禁止用水直接冲刷泄漏源或用于排气的安全设备，因为可能发生结冰现象。

**化学品产生的具体危险：**极易燃气体。内装高压气体；遇热可能爆炸。

**消防人员的特殊防护行为：** /

## 六、意外释放措施

**人身防范、保护设备和应急程序：**防止吸入蒸汽、气雾或气体。保证充分的通风。移去所有火源。将人员撤离到安全区域。防范蒸汽积累达到可爆炸的浓度,蒸汽能在低洼处积聚。

**环境防范措施：**在确保安全的条件下,采取措施防止进一步的泄漏或溢出。不要让产物进入下水道。

**抑制和清理的方法和材料：**将泄漏的钢瓶或气罐转移至安全的地方。安装通风管道。在安全可控制的情况下,释放钢瓶压力。不准在阀门上施加过多压力；不准尝试去操作已损坏的阀门。

## 七、操作与储存

**安全操作的防范措施：**防止吸入蒸汽和烟雾。切勿靠近火源。—严禁烟火。采取措施防止静电积聚。

**安全存储的条件,包括任何不相容性：**贮存在阴凉处。容器保持紧闭,储存在干燥通风处。内含物处于压力下。

## 八、接触控制/人身保护

**控制参数：** /

**工程控制：**储存钢瓶的区域需要良好的通风条件,如果是封闭区域,需要采用分立的/控制的排气通风设备。某些地方的法律可能规定需要采用次级控制设备和进行废气排放处理。

**个人防护设备**

**眼睛防护：**带侧边的安全护目镜。化学护目镜。隐形眼镜可能会造成一种特殊危害；软的隐形眼镜可能会吸收和富集刺激物。

**手部防护：**当处理密封的容器时应戴布的或皮革手套。

**呼吸防护：**在密闭空间工作,如果怀疑泄漏或原有的封堵被打开(如更换钢瓶),应戴正压全面罩供气式呼吸器。怀疑或已证明原有的封堵漏气,应戴供气式呼吸器。

## 九、物理及化学性质

外观(物理状态、颜色等)	存储在钢瓶中的高压气体。
气味	/
气味阈值	/
pH 值	/
熔点/凝固点	-188 ℃。
初始沸点和沸腾范围	-42.1 ℃。
闪点	-104 ℃。
蒸发速率	/
易燃性(固态、气态)	/
上下易燃极限或爆炸极限	爆炸上限 9.5% (V); 下限 2.1% (V)。
蒸气压力	/
蒸气密度	1.52 (空气=1)。
相对密度	/

可溶性 /  
分配系数：n-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：物质被认为是稳定的。

危险反应的可能性：不会发生危害性的聚合反应。

应避免的条件：热，火焰和火花。极端的温度和直接日光。

不相容的物质和材料：强氧化剂。

危险的分解产物： /

## 十一、毒理学信息

急性毒性效应：

吸入：吸入可能有害。可能引起呼吸道刺激。

食入：如服入是有害的。

皮肤：如果通过皮肤吸收可能是有害的。可能引起皮肤刺激。

眼睛：可能引起眼睛刺激。

慢性毒性或长期毒性效应：头晕，昏睡，失去知觉。

毒性的数值度量（如急性毒性估计值）： /

## 十二、生态信息

生态毒性： /

持久性及降解性： /

生物蓄积性： /

在土壤中的流动性： /

其它不利效应： /

## 十三、处置考虑

处置方法：在规定的地方蒸发残留物。把空的容器退还给供应商。

## 十四、运输信息

联合国编号：1978。

联合国运输名称：丙烷。

运输危险种类：2.1。

包装类别： /

环境危险： /

使用者的特殊防范措施： /

## 十五、管理信息

国内化学品安全法规：

本安全数据单遵照了以下相关国家标准：GB16483-2008，GB13690-2009，GB6944-2005，

GB/T15098-2008, GB18218-2009, GB15258-2009, GB6944-2005, GB190-2009, GB191-2009, GB12268-2008, GA57-1993, GB/T 15098-2008, GBZ 2-2007以及相关法规：《危险货物运输管理规则》、《危险化学品安全管理条例》、联合国《关于危险货物运输的建议书》（简称 UN RTDG）。

## 十六、其它信息

<b>参考文献</b>	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》
<b>制表日期</b>	2013年01月28日

注1：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

**Product Name:** Propane.

**Other Name:** /

**Recommended use of the chemical and restrictions on use:** /

**Supplier's details:** /

**Emergency phone number:** /

## SECTION 2 HAZARDS IDENTIFICATION

**Classification of the substance or mixture**

Flammable gases category 1, Gases under pressure (liquefied gas).

**GHS Label elements, including precautionary statements:**



**Signal word:** Danger

**Hazard statement(s):** Extremely flammable gas. Contains gas under pressure; may explode if heated.

**Precautionary statement(s):**

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

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

**Storage:** Store in well-ventilated place. Protect from sunlight.

**Disposal:** /

**Other hazards which do not result in classification:** /

## SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Concentration%
Propane	74-98-6	95.3

## 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:** Wash off with soap and plenty of water. Consult a physician.

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

**If swallowed:** Not considered a normal route of entry.

**Most important symptoms and effects, both acute and delayed:** Dizziness, Drowsiness, Unconsciousness.

**Indication of immediate medical attention and special treatment needed:** /

## SECTION 5 FIREFIGHTING MEASURES

**Suitable extinguishing media:** DO NOT EXTINGUISH BURNING GAS UNLESS LEAK CAN BE STOPPED SAFELY, OTHERWISE: LEAVE GAS TO BURN.FOR SMALL FIRE: Dry chemical, CO<sub>2</sub> or water spray to extinguish gas (only if absolutely necessary and safe to do so).DO NOT use water jets.FOR LARGE FIRE:Cool cylinder by direct flooding quantities of water onto upper surface until well after fire is out.DO NOT direct water at source of leak or venting safety devices as icing may occur.

**Special hazards arising from the chemical:** Extremely flammable gas. Contains gas under pressure; may explode if heated.

**Special protective actions for fire-fighters:/**

## SECTION 6 ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures:** Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

**Environmental precautions:** Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

**Methods and materials for containment and cleaning up:** Remove leaking cylinders to a safe place.Fit vent pipes.Release pressure under safe, controlled conditions.Burn issuing gas at vent pipes. DO NOT exert excessive pressure on valve; DO NOT attempt to operate damaged valve.

## SECTION 7 HANDLING AND STORAGE

**Precautions for safe handling:** Avoid inhalation of vapour or mist.Keep away from sources of ignition - No smoking.Take measures to prevent the buildup of electrostatic charge.

**Conditions for safe storage, including any incompatibilities:** Store in cool place. Keep container tightly closed in a dry and well-ventilated place.Contents under pressure.

## SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters: /**

**Appropriate engineering controls:** Process controls which involve changing the way a job activity or process is done to reduce the risk. Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment.

**Personal protective equipment**

**Eye/face protection:** Safety glasses with side shields. Chemical goggles. Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants.

**Skin protection:** When handling sealed and suitably insulated cylinders wear cloth or leather gloves.

**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.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Compressed gas.
<b>Odour</b>	/
<b>Odour Threshold</b>	/
<b>pH</b>	/
<b>Melting point/freezing point</b>	-188 °C
<b>Initial boiling point and boiling range</b>	-42.1 °C
<b>Flash point</b>	-104 °C



<b>Evaporation rate</b>	/
<b>Flammability (solid, gas)</b>	/
<b>Upper/lower flammability or explosive limits</b>	Upper explosion limit: 9.5% (V); Lower 2.1% (V)
<b>Vapour pressure</b>	/
<b>Vapour density</b>	1.52 (air=1)
<b>Relative density</b>	/
<b>Water solubility</b>	/
<b>Partition coefficient: noctanol/water</b>	/
<b>Autoignition temperature</b>	/
<b>Decomposition temperature</b>	/
<b>Viscosity</b>	/

## SECTION 10 STABILITY AND REACTIVITY

**Reactivity:** /

**Chemical stability:** Product is considered stable.

**Possibility of hazardous reactions:** Hazardous polymerization will not occur.

**Conditions to avoid:** Heat, flames and sparks. Extremes of temperature and direct sunlight.

**Incompatible materials:** Strong oxidizing agents.

**Hazardous decomposition products:** /

## SECTION 11 TOXICOLOGICAL INFORMATION

**Acute health effects**

**Inhalation:** May be harmful if inhaled. May cause respiratory tract irritation.

**Ingestion:** /

**Skin:** May be harmful if absorbed through skin. May cause skin irritation.

**Eyes:** May cause eye irritation.

**Chronic health effects:** Dizziness, Drowsiness, Unconsciousness.

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

## SECTION 12 ECOLOGICAL INFORMATION

**Toxicity:** /

**Persistence and degradability:** /

**Bioaccumulative potential:** /

**Mobility in soil:** /

**Other adverse effects:** /

## SECTION 13 DISPOSAL CONSIDERATIONS

**Disposal methods:** Evaporate residue at an approved site. Return empty containers to supplier. If containers are marked non-returnable establish means of disposal with manufacturer prior to purchase. Ensure damaged or non-returnable cylinders are gas-free before disposal.

## SECTION 14 TRANSPORT INFORMATION

**UN number:** 1978.

**UN proper shipping name:**PROPANE.

**Transport hazard class(es):** 2.1.

**Packaging group:** /

**Environmental hazards:** /

**Special precautions for user:** /

## **SECTION 15 REGULATORY INFORMATION**

### **Regulations:**

This safety data sheet is in compliance with the following national standards: GB16483-2008, GB13690-2009, GB6944-2005, GB/T15098-2008, GB18218-2009, GB15258-2009, GB6944-2005, GB190-2009, GB191-2009, GB12268-2008, GA57-1993, GB/T 15098-2008, GBZ 2-2007 as well as the following national regulations: Dangerous Goods Transport Administrative Regulation, Dangerous Chemicals Safety Administrative Regulation, United Nations Regulations on the Transport of Dangerous Goods (UN RTDG)

## **SECTION 16 OTHER INFORMATION**

<b>References</b>	“Model Regulations on the Transport of Dangerous Goods” “The Globally Harmonized System of Classification and Labelling of Chemicals”
<b>Form Date</b>	28-Jan-2013

Note 1: 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.



丙烷

PROPANE

UN 1978