

Beiblatt zum Sicherheitsdatenblatt / Supplement to the safety data sheet

Abschnitt 1 / Section 1

1.1 Produktidentifikation / Product identification

s. Original-Datenblatt / see original safety data sheet

1.2 Verwendungen des Stoffs / Uses of the substance

s. Original-Datenblatt / see original safety data sheet

1.3 Einzelheiten zum Lieferanten / Details of the supplier

Firmenname /	Supplier	Stürmer Maschinen GmbH,
Straße /	Street	Dr.-Robert-Pfleger-Str. 26,
Ort /	City	D-96103 Hallstadt
Tel. /	Phone	+49 (0)951 96555 - 0 (07:00 - 17:00 Uhr / 07:00 am - 05:00 pm)
E-Mail /	E-Mail	info@stuermer-maschinen.de

1.4 Notrufnummer / Emergency Telephone

Wählen Sie die passende Notrufnummer anhand des GHS-Symbols auf Ihrem Gefahrgut oder entsprechend Abschnitt 2.2 des orig. Sicherheitsdatenblattes *.
Call the appropriate emergency number using the GHS symbol on your dangerous goods or according to section 2.2 of the original safety data sheet *.

GHS Gefahren-piktogramm / GHS symbol	GHS-Kürzel/ GHS-no.	Mögliche Signalwörter/ Warning	Gefährdungsklassen / Description of hazards	Notrufnummer */ Emergency Phone *
	GHS01 bis GHS09			+49 (0)951 96555 - 590 Sammelnotrufnummer Gefahrstoffe
	GHS01	Gefahr oder Achtung / Danger or Attention	Explosive Stoffe/Gemische und Erzeugnisse mit Explosivstoff, selbstzersetzliche Stoffe/Gemische, organische Peroxide / Explosive substances / mixtures and products containing explosives, self-reactive substances / mixtures, organic peroxides	- 591
	GHS02	Gefahr oder Achtung / Danger or Attention	Selbstzersetzliche Stoffe/Gemische, organische Peroxide, entzündbare Gase, Aerosole Flüssigkeiten, Feststoffe, selbsterhitzungsfähige Gemische, pyrophore Flüssigkeiten und Feststoffe, Stoffe/Gemische, die bei Berührung mit Wasser entzündbare Gase bilden / Self-reactive substances / mixtures, organic peroxides, flammable gases, aerosols, liquids, solids, self-heating mixtures, pyrophoric liquids and solids, substances / mixtures which form flammable gases on contact with water	- 592
	GHS03	Gefahr oder Achtung / Danger or Attention	Oxidierende Gase, Flüssigkeiten, Feststoffe / Oxidizing gases, liquids, solids	- 593
	GHS04	Achtung / Attention	Verdichtete, verflüssigte, gelöste und tiefgekühlt verflüssigte Gase / Compressed, liquefied, dissolved and refrigerated liquefied gases	- 594
	GHS05	Gefahr oder Achtung / Danger or Attention	Verätzung der Haut, schwere Augenschäden, auch metallkorrosive Eigenschaften / Chemical burns to the skin, severe eye damage, also metal-corrosive properties	- 595
	GHS06	Gefahr / Danger	Äußerst schwere und schwere akute Gesundheitsschäden oder Tod / Extremely severe and severe acute damage to health or death	- 596
	GHS07	Achtung / Attention	Akute Gesundheitsschäden, Reizung der Haut, der Augen und der Atemwege, Sensibilisierung der Haut, narkotisierende Wirkungen / Acute damage to health, irritation of the skin, eyes and the respiratory tract, sensitization of the skin, narcotic effects	- 597
	GHS08	Gefahr oder Achtung / Danger or Attention	Chronische Gesundheitsschäden (Organschädigungen) bei einmaliger oder mehrmaliger Exposition, krebserzeugende, erbgutverändernde und fortpflanzungsgefährdende Wirkungen, Lungenschäden durch Eindringen von Substanzen in die Lunge (Aspirationsgefahr), Sensibilisierung der Atemwege / Chronic damage to health (damage to organs) after single or multiple exposure, carcinogenic, mutagenic and reproductive effects, lung damage due to the penetration of substances into the lungs (risk of aspiration), sensitization of the respiratory tract	- 598
	GHS09	Achtung oder ohne Signalwort / Attention or without wording	Giftig für Wasserorganismen mit kurz- und langfristiger Wirkung / Toxic to aquatic organisms with short and long-term effects	- 599

* 07:00 - 17:00 Uhr, außerhalb dieses Zeitraums kann die Nummer auf dem Sicherheitsdatenblatt angerufen werden / 07:00 am - 05:00 pm, outside this time, the number on the safety data sheet can be called

Für alle anderen Informationen siehe Original-Sicherheitsdatenblatt / For all other information, see the original safety data sheet



化学品安全数据单 (SDS) 编制报告

编号: 240100320455491C
日期: 2024 年 9 月 10 日



样品名称	丙烷 R290		
申请单位	澳宏（太仓）环保材料有限公司		
供应商	澳宏（太仓）环保材料有限公司		
样品组分	丙烷 R290：≥ 99.9%		
编制依据	联合国《全球化学品统一分类和标签制度》（GHS）第十修订版		
化学品安全数据单（SDS）请参见本报告附件。			
编制	孙越越	签发	For and on behalf of CCIC JIANGSU CO., LTD. 中国检验认证集团江苏有限公司 4 授权签字人 Authorized Signature (s)

说明: 本报告有效期至联合国 GHS 第十一修订版实施之前。

本次检验地点: 中国中检危险品鉴定中心 (中国.常州市天宁区青洋北路 47 号)

电话: +86-519-83277160



丙烷 R290

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SDS

编号: 240100320455491C

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版本: 1.1

第 1 部分 化学品及企业标识

> 产品标识

产品中文名称	丙烷 R290
产品英文名称	PROPANE R290
别名	-
CAS No.	74-98-6
EC No.	200-827-9
分子式	C ₃ H ₈

> 产品推荐和限制用途

产品的推荐用途	请咨询生产商。
产品的限制用途	请咨询生产商。

> 安全数据单提供者信息

申请单位名称	澳宏（太仓）环保材料有限公司
申请单位地址	中国江苏省太仓市浮桥镇浏家港协鑫西路 18 号
申请单位邮编	215434
申请单位联系电话	+86-0512-33003300
申请单位传真号码	+86-0512-33000033
申请单位电子邮箱	Saradan@china-aohong.com
供应商名称	澳宏（太仓）环保材料有限公司
供应商地址	中国江苏省太仓市浮桥镇浏家港协鑫西路 18 号
供应商邮编	215434
供应商联系电话	+86-0512-33003300
供应商传真号码	+86-0512-33000033
供应商电子邮箱	Saradan@china-aohong.com

> 企业应急电话

企业应急电话	+86-0512-33003300
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第 2 部分 危险性概述

按照联合国 GHS（第十修订版）规定，该产品所属危险性类别及标签要素如下：

> GHS 危险性类别

易燃气体	类别 1A
加压气体	液化气体



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> GHS 标签要素

象形图



信号词

危险

> 危险性说明

H220

极易燃气体

H280

内装加压气体; 遇热可能爆炸

> 防范说明

预防措施

P210

远离热源、热表面、火花、明火和其它点火源。禁止吸烟。

事故响应

P377

漏气着火: 切勿灭火, 除非能够安全地堵塞泄漏。

P381

万一泄露, 除去一切点火源。

安全储存

P403

存放于通风良好处。

P410+P403

防日晒。存放于通风良好处。

废弃处置

不适用

第 3 部分 成分/组成信息

组分	CAS No.	EC No.	含量 (质量分数, %)
丙烷 R290	74-98-6	200-827-9	≥ 99.9

第 4 部分 急救措施

> 急救措施描述

一般性建议

急救措施通常是需要的, 请将本 SDS 出示给到达现场的医生。

眼睛接触

用大量水彻底冲洗至少 15 分钟。如有不适, 就医。

皮肤接触

立即脱去污染的衣物。用大量肥皂水和清水冲洗皮肤。如有不适, 就医。

食入

禁止催吐, 切勿给失去知觉者从嘴里喂食任何东西。立即呼叫医生或中毒控制中心。

吸入

立即将患者移到新鲜空气处, 保持呼吸畅通。如果呼吸困难, 给予吸氧。如患者食入或吸入本物质, 不得进行口对口人工呼吸。如果呼吸停止。立即进行心肺复苏术。立即就医。

急救人员的防护

确保医护人员了解产品的危害特性, 并采取自身防护措施, 以保护自己和防止污染传播。

> 最重要的症状和影响, 急性的和滞后的



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- 有限的证据表明反复或长期职业接触可能会产生涉及器官或生化系统累积性的健康影响。

> 紧急医疗处理和特殊处理的说明

- 根据出现的症状进行针对性处理。
- 注意症状可能会出现延迟。

第 5 部分 消防措施

> 灭火介质

- | | |
|----------|-----------------------------|
| 合适的灭火介质 | 使用适用于周围环境的灭火介质。用水喷雾冷却周围的容器。 |
| 不合适的灭火介质 | 避免用太强烈的水汽灭火, 因为它可能会使火苗蔓延分散。 |

> 源于此物质或混合物的特别危害

- 易燃: 易被热源、火花或火焰点燃。
- 可与空气形成爆炸性混合物。
- 暴露于火中的容器可能会通过压力安全阀泄漏出内容物, 从而增加火势和/或蒸气的浓度。
- 蒸气可能会移动到着火源并回闪。
- 加热时, 容器可能爆炸。
- 暴露于火中的容器可能会通过压力安全阀泄漏出内容物。
- 受热或接触火焰可能会产生膨胀或爆炸性分解。

> 对消防人员的建议

- 灭火时, 应佩戴呼吸面具 ((符合 MSHA/NIOSH 要求的或相当的)) 并穿上全身防护服。
- 在安全距离处、有充足防护的情况下灭火。
- 防止消防水污染地表和地下水系统。

第 6 部分 泄漏应急处理

> 作业人员防护措施, 防护设备和紧急处理程序

- 避免吸入蒸气、接触皮肤和眼睛。
- 谨防蒸气积累达到可爆炸的浓度。
- 蒸气能在低洼处积聚。
- 建议应急人员戴正压自给式呼吸器, 穿防毒、防静电服, 戴化学防渗透手套。
- 保证充分的通风。清除所有点火源。
- 迅速将人员撤离到安全区域, 远离泄漏区域并处于上风方向。
- 使用个人防护装备。避免吸入蒸气、烟雾、气体或粉尘。

> 环境保护措施

- 在确保安全的情况下, 采取措施防止进一步的泄漏或溢出。



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2 避免排放到周围环境中。

> 泄漏化学品的收容、清除方法及所使用的处置材料

- 清除所有点火源，并采用防火花工具和防爆设备。
- 如果气体从压力容器中泄漏，则撤离该区域，直到所有泄漏的气体都蒸发掉。

第 7 部分 搬运和存放

> 安全搬运的防范措施

- 避免吸入蒸气。
- 只能使用不产生火花的工具。
- 为防止静电释放引起的蒸气着火，设备上所有金属部件都要接地。
- 使用防爆设备。
- 在通风良好处进行操作。
- 穿戴合适的个人防护用具。
- 避免接触皮肤和进入眼睛。
- 远离热源、火花、明火和热表面。
- 采取措施防止静电积累。

> 安全存放的条件，包括任何不相容性

- 保持容器密闭。
- 储存在干燥、阴凉和通风处。
- 远离热源、火花、明火和热表面。
- 存储于远离不相容材料和食品容器的地方。

第 8 部分 接触控制/人身防护

> 控制参数

职业接触限值

组分	国家/地区	职业接触限值 (8h)		职业接触限值 (短时间)	
		ppm	mg/m ³	ppm	mg/m ³
丙烷 R290 74-98-6	美国-OSHA	1000	1800	-	-
	瑞士	1000	1800	4000	7200
	新西兰	-	-	-	-
	爱尔兰	1000	-	-	-
	德国(AGS)	1000	1800	4000	7200
	丹麦	1000	1800	2000	3600
	加拿大-魁北克	1000	1800	-	-
	加拿大-安大略	1000	-	-	-



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	比利时	1000	-	-	-
	奥地利	1000	1800	2000	3600

生物限值

无资料

监测方法

- EN 14042 工作场所空气 用于评估暴露于化学或生物试剂的程序指南。
- GBZ/T 160 工作场所空气有毒物质测定（系列有效标准）以及 GBZ/T 300 工作场所空气有毒物质测定（系列标准）。

> 工程控制

- 保持充分的通风，特别在封闭区内。
- 确保在工作场所附近有洗眼和淋浴设施。
- 使用防爆电器、通风、照明等设备。
- 设置应急撤离通道和必要的泄险区。

> 个人防护装备

眼睛防护

佩戴化学护目镜（符合欧盟 EN 166 或美国 NIOSH 标准）。

手部防护

戴化学防护手套（例如丁基橡胶手套）。建议选择经过欧盟 EN 374、美国 US F739 或 AS/NZS 2161.1 标准测试的防护手套。

呼吸系统防护

如果蒸气浓度超过职业接触限值或发生刺激等症状时，请使用全面罩式多功能防毒面具（US）或 AXBEK 型（EN 14387）防毒面具筒。

皮肤和身体防护

穿阻燃防静电防护服和抗静电的防护靴。

第 9 部分 理化特性

外观与性状: 无色液化气体

气味阈值: 无资料

熔点/凝固点(°C): -189.7

闪点(°C)(闭杯): 不适用

易燃性: 易燃

蒸汽压力(KPa): 不适用

相对密度(水=1): 不适用

正辛醇/水分配系数: 不适用

分解温度(°C): 无资料

颗粒特征: 不适用

气味: 无资料

pH 值: 不适用

初始沸点和沸腾范围(°C): -42

蒸发速率: 不适用

爆炸上限/下限[% (v/v)]: 上限: 9.5; 下限: 2.1

相对蒸气密度(空气=1): 不适用

可溶性: 微溶于水

自燃温度(°C): 450

运动粘度(mm²/s): 不适用

临界温度(°C): 96.7

第 10 部分 稳定性和反应性

反应性

与不相容物质接触可发生分解或其它化学反应。

化学稳定性

在正确的使用和存储条件下是稳定的。

危险反应的可能性

遇明火易燃或爆炸。

应避免的条件

不相容物质，热、火焰和火花。



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不相容材料

氧化性物质和卤素。

危险的分解产物

在正常的储存和使用条件下, 不会产生危险的分解产物。

第 11 部分 毒理学信息

> 急性毒性

无资料

> 皮肤腐蚀/刺激

无资料

> 严重眼损伤/刺激

无资料

> 皮肤致敏

无资料

> 呼吸致敏

无资料

> 生殖细胞致突变性

无资料

> 致癌性

ID	CAS No.	组分	IARC	NTP
1	74-98-6	丙烷 R290	未列入	未列入

> 生殖毒性

无资料

> 生殖毒性附加危害

无资料

> 特异性靶器官系统毒性-单次接触

无资料

> 特异性靶器官系统毒性-反复接触

无资料

> 吸入危害



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无资料

第 12 部分 生态学信息

> 急性水生毒性

无资料

> 慢性水生毒性

无资料

> 其他信息

持久性和降解性 无资料

生物富集或生物积累性 无资料

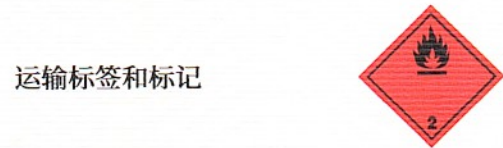
土壤中的迁移性 无资料

PBT 和 vPvB 的结果评价 丙烷 R290 不符合欧盟 (EC) No 1907/2006 法规附件 XIII 中 PBT 和 vPvB 的分类标准。

第 13 部分 废弃处置

废弃化学品
污染包装物
废弃注意事项
处置之前应参阅国家和地方有关法规。
包装物清空后仍可能存在残留物危害, 应远离热和火源, 如有可能返还给供应商循环使用。
请参阅废弃化学品和污染包装物部分。

第 14 部分 运输信息



海洋污染物 否

联合国危险货物编号
(UN No.) 1978

联合国正确运输名称 丙烷

运输主要危险类别 2.1

运输次要危险类别 无

包装类别 包装要求见该 UN 编号对应的包装规范

第 15 部分 法规信息



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> 国际化学品名录

组分	EINECS	TSCA	DSL	IECSC	NZIoC	PICCS	KECL	AIIC	ENCS
丙烷 R290	√	√	√	√	√	√	√	√	√

- 【EINECS】 欧洲现有化学物质名录
【TSCA】 美国 TSCA 化学物质名录
【DSL】 加拿大国内化学物质名录
【IECSC】 中国现有化学物质名录
【NZIoC】 新西兰现有暂用的化学物质名录
【PICCS】 菲律宾化学品和化学物质名录
【KECL】 韩国现有化学物质名录
【AIIC】 澳大利亚工业化学品名录
【ENCS】 日本现有和新化学物质名录

注

“√” 表示该物质列入法规

“×” 表示暂无资料或未列入法规

第 16 部分 其他信息

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修订原因 -

> 免责声明

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CHINA CERTIFICATION & INSPECTION GROUP



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电话：+86-519-83277160





DESIGN REPORT OF SAFETY DATA SHEET

No.: 240100320455491E

Date: Sep.10,2024



Name of the sample	PROPANE R290		
Applicant	Aohong (Taicang) Environmental Protection Material Co.,Ltd		
Supplier	Aohong (Taicang) Environmental Protection Material Co.,Ltd		
Composition of the sample	PROPANE R290: ≥ 99.9%		
Warranty of Design	GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS (GHS) Tenth revised edition		
Design Result of SDS please see next page.			
Designer	孙越越	Approver	For and on behalf of CCIC JIANGSU CO., 中国检验认证集团江苏有 华安

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授权签字人 Authorized Signature (s)

Notes: This SDS is valid before the implementation of the Eleventh revised edition GHS.



PROPANE R290

SAFETY DATA SHEET

No.: 240100320455491E

Date: Sep.10,2024

Warranty of Design: GHS (Tenth Revised Edition)

SDS

Version: 1.1

Section 1 Product and Company Identification

> Product Identifier

Product Name	PROPANE R290
Synonyms	-
CAS No.	74-98-6
EC No.	200-827-9
Molecular Formula	C ₃ H ₈

> Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Relevant Identified Uses	Please consult manufacturer.
Uses Advised Against	Please consult manufacturer.

> Details of the Supplier of the Safety Data Sheet

Applicant Name	Aohong (Taicang) Environmental Protection Material Co.,Ltd
Application Address	NO.18 XIEXIN(W) ROAD TAICANG JIANGSU PROVINCE CHINA
Applicant Post Code	215434
Applicant Telephone	+86-0512-33003300
Applicant Fax	+86-0512-33000033
Applicant E-mail	Saradan@china-aohong.com
Supplier Name	Aohong (Taicang) Environmental Protection Material Co.,Ltd
Supplier Address	NO.18 XIEXIN(W) ROAD TAICANG JIANGSU PROVINCE CHINA
Supplier Post Code	215434
Supplier Telephone	+86-0512-33003300
Supplier Fax	+86-0512-33000033
Supplier E-mail	Saradan@china-aohong.com

> Emergency Phone Number

Emergency Phone Number	+86-0512-33003300
------------------------	-------------------

Section 2 Hazards Identification

Hazard class and label elements of the product according to GHS (the tenth revised edition):

> GHS Hazard Class

Flammable Gases	Category 1A
Gases Under Pressure	Liquefied gas



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> GHS Label Elements

Pictogram



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, 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. |

Disposal

Not applicable

Section 3 Composition/Information on Ingredients

Component	CAS No.	EC No.	Concentration (weight percent, %)
PROPANE R290	74-98-6	200-827-9	≥ 99.9

Section 4 First Aid Measures

> Description of First Aid Measures

General Advice	Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.
Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.
Skin Contact	Take off contaminated clothing and shoes immediately. Wash off with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.
Ingestion	Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.
Inhalation	Move victim into fresh air. If breathing is difficult, give oxygen. Do not use mouth to mouth resuscitation if victim ingested or inhaled the substance. If not breathing, give artificial respiration and consult a physician immediately.
Protecting of	Ensure that medical personnel are aware of the substance involved. Take precautions



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First-aiders to protect themselves and prevent spread of contamination.

> Most Important Symptoms and Effects, both Acute and Delayed

- 1 Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.

> Indication of Any Immediate Medical Attention and Special Treatment Needed

- 1 Treat symptomatically.
- 2 Symptoms may be delayed.

Section 5 Fire Fighting Measures

> Extinguishing Media

- | | |
|---------------------------------------|--|
| Suitable Extinguishing Media | Use extinguishing media suitable for surrounding area. Cool surrounding containers with water spray. |
| Unsuitable Extinguishing Media | Do not use a solid water stream as it may scatter or spread fire. |

> Specific Hazards Arising from the Substance or Mixture

- 1 Flammable: will be easily ignited by heat, sparks or flames.
- 2 Will form explosive mixtures with air.
- 3 Fire exposed containers may vent contents through pressure relief valves thereby increasing fire intensity and/or vapour concentration.
- 4 Vapours may travel to source of ignition and flash back.
- 5 Containers may explode when heated.
- 6 Fire exposed containers may vent contents through pressure relief valves.
- 7 May expansion or decompose explosively when heated or involved in fire.

> Advice for Firefighters

- 1 As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear.
- 2 Fight fire from a safe distance, with adequate cover.
- 3 Prevent fire extinguishing water from contaminating surface water or the ground water system.

Section 6 Accidental Release Measure

> Personal Precautions, Protective Equipment and Emergency Procedures

- 1 Avoid breathing vapors and contacting with skin and eye.
- 2 Beware of vapours accumulating to form explosive concentrations.
- 3 Vapours can accumulate in low areas.
- 4 Emergency personnel wear positive pressure self-contained breathing apparatus. Wear protective and anti-static clothing. Wear chemical impermeable gloves.
- 5 Ensure adequate ventilation. Remove all sources of ignition.
- 6 Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.



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7 Use personal protective equipment. Avoid breathing vapours, mist, gas or dust.

> Environmental Precautions

- 1 Prevent further leakage or spillage if safe to do so.
- 2 Discharge into the environment must be avoided.

> Methods and Materials for Containment and Cleaning Up

- 1 Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.
- 2 If gas leaks from pressure vessels, evacuate area until all the leaked gas has evaporated.

Section 7 Handling and Storage

> Precautions for Handling

- 1 Avoid inhalation of vapors.
- 2 Use only non-sparking tools.
- 3 To prevent fire caused by electrostatic discharge steam, equipment on all metal parts should be grounded.
- 4 Use explosion proof equipment.
- 5 Handling is performed in a well ventilated place.
- 6 Wear suitable protective equipment.
- 7 Avoid contact with skin and eyes.
- 8 Keep away from heat/sparks/open flames/ hot surfaces.
- 9 Take precautionary measures against static discharges.

> Precautions for Storage

- 1 Keep containers tightly closed.
- 2 Keep containers in a dry, cool and well-ventilated place.
- 3 Keep away from heat/sparks/open flames/ hot surfaces.
- 4 Store away from incompatible materials and foodstuff containers.

Section 8 Exposure Controls/Personal Protection

> Control Parameters

Occupational Exposure Limit Values

Component	Country/Region	Limit Value - Eight Hours		Limit Value - Short Term	
		ppm	mg/m ³	ppm	mg/m ³
PROPANE R290 74-98-6	USA - OSHA	1000	1800	-	-
	Switzerland	1000	1800	4000	7200
	New Zealand	-	-	-	-
	Ireland	1000	-	-	-
	Germany (AGS)	1000	1800	4000	7200



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	Denmark	1000	1800	2000	3600
	Canada - Québec	1000	1800	-	-
	Canada - Ontario	1000	-	-	-
	Belgium	1000	-	-	-
	Austria	1000	1800	2000	3600

Biological Limit Values

No information available

Monitoring Methods

- 1 EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.
- 2 GBZ/T 160 Determination of toxic substances in workplace air(Series effective standard)and GBZ/T 300 Determination of toxic substances in workplace air(Series standard).

> Engineering Controls

- 1 Ensure adequate ventilation, especially in confined areas.
- 2 Ensure that eyewash stations and safety showers are close to the workstation location.
- 3 Use explosion-proof electrical/ventilating/lighting/equipment.
- 4 Set up emergency exit and necessary risk-elimination area.

> Personal Protection Equipment

Eye Protection	Tightly fitting safety goggles (approved by EN 166(EU) or NIOSH (US).
Hand Protection	Wear protective gloves (such as butyl rubber) , passing the tests according to EN 374(EU),US F739 or AS/NZS 2161.1 standard.
Respiratory protection	If exposure limits are exceeded or if irritation or other symptoms are experienced, use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges.
Skin and Body Protection	Wear fire/flamm resistant/retardant clothing and antistatic boots.

Section 9 Physical and Chemical Properties

Appearance: Colorless liquefied gas	Odor: No information available
Odor Threshold: No information available	pH: Not applicable
Melting Point/Freezing Point (°C): -189.7	Initial Boiling Point and Boiling Range (°C): -42
Flash Point (°C)(Closed Cup): Not applicable	Evaporation Rate: Not applicable
Flammability: Flammable	Upper/lower explosive limits[% (v/v)]: Upper limit: 9.5; Lower limit: 2.1
Vapor Pressure (KPa): Not applicable	Relative Vapour Density(Air=1): Not applicable
Relative Density(Water=1): Not applicable	Solubility: Slightly soluble in water
n-Octanol/Water Partition Coefficient: Not applicable	Auto-Ignition Temperature(°C): 450
Decomposition Temperature (°C): No information available	Kinematic Viscosity (mm²/s): Not applicable
Particle characteristics: Not applicable	Critical Temperature(°C): 96.7



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Section 10 Stability and Reactivity

Reactivity	Contact with incompatible substances can cause decomposition or other chemical reactions.
Chemical Stability	Stable under proper operation and storage conditions.
Possibility of Hazardous Reactions	In contact with an open flame may cause a fire or explosion.
Conditions to Avoid	Incompatible materials, heat, flame and spark.
Incompatible Materials	Oxidantss and halogen.
Hazardous Decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11 Toxicological Information

> Acute Toxicity

No information available

> Skin Corrosion/Irritation

No information available

> Serious Eye Damage/Irritation

No information available

> Skin Sensitization

No information available

> Respiratory Sensitization

No information available

> Germ Cell Mutagenicity

No information available

> Carcinogenicity

ID	CAS No.	Component	IARC	NTP
1	74-98-6	PROPANE R290	Not Listed	Not Listed

> Reproductive Toxicity

No information available

> Reproductive Toxicity (Additional)

No information available



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> STOT-Single Exposure

No information available

> STOT-Repeated Exposure

No information available

> Aspiration Hazard

No information available

Section 12 Ecological Information

> Acute Aquatic Toxicity

No information available

> Chronic Aquatic Toxicity

No information available

> Others

Persistence and
Degradability

No information available

Bioaccumulative
Potential

No information available

Mobility in Soil

No information available

Results of PBT and
vPvB Assessment

PROPANE R290 does not meet the criteria for PBT and vPvB according to Regulation (EC) No 1907/2006, annex XIII.

Section 13 Disposal Considerations

Waste Chemicals
Contaminated
Packaging
Disposal
Recommendations

Before disposal should refer to the relevant national and local laws and regulation. Containers may still present chemical hazard when empty. Keep away from hot and ignition source of fire. Return to supplier for recycling if possible. Refer to Waste chemicals and Contaminated packaging.

Section 14 Transport Information

Transporting Label



Marine pollutant

No

UN Number

1978

UN Proper Shipping
Name

PROPANE



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Version: 1.1

Transport Hazard Class 2.1
Transport Subsidiary Hazard Class NONE
Packing Group The packagings must conform to package instructions of UN number

Section 15 Regulatory Information

> International Chemical Inventory

Component	EINECS	TSCA	DSL	IECSC	NZIoC	PICCS	KECL	AIIC	ENCS
PROPANE R290	√	√	√	√	√	√	√	√	√

【EINECS】 European Inventory of Existing Commercial Chemical Substances.

【TSCA】 United States Toxic Substances Control Act Inventory.

【DSL】 Canadian Domestic Substances List.

【IECSC】 China Inventory of Existing Chemical Substances.

【NZIoC】 New Zealand Inventory of Chemicals.

【PICCS】 Philippines Inventory of Chemicals and Chemical Substances.

【KECL】 Korea Existing Chemicals List.

【AIIC】 Australian Inventory of Industrial Chemicals.

【ENCS】 Japan List of Existing and New Chemical Substances.

Note

"√" Indicates that the substance included in the regulations

"x" That no data or included in the regulations

Section 16 Additional Information

Creation Date Sep.10,2024

Revision Date Sep.10,2024

Reason for Revision -

> Disclaimer

This Safety Data Sheet (SDS) was prepared according to UN GHS (the 10th revised edition).The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.



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3. Information from applicant is the key of this SDS, so CCIC will not respond for the wrong of applicant.
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Notes : Test is Located on : CCIC Dangerous Goods Identification Center (47 Qingyang North Road, Tianning District, Changzhou, China)

Tel : +86-519-83277160



Beiblatt zum Sicherheitsdatenblatt / Supplement to the safety data sheet

Abschnitt 1 / Section 1

1.1 Produktidentifikation / Product identification

s. Original-Datenblatt / see original safety data sheet

1.2 Verwendungen des Stoffs / Uses of the substance

s. Original-Datenblatt / see original safety data sheet

1.3 Einzelheiten zum Lieferanten / Details of the supplier

Firmenname /	Supplier	Stürmer Maschinen GmbH,
Straße /	Street	Dr.-Robert-Pfleger-Str. 26,
Ort /	City	D-96103 Hallstadt
Tel. /	Phone	+49 (0)951 96555 - 0 (07:00 - 17:00 Uhr / 07:00 am - 05:00 pm)
E-Mail /	E-Mail	info@stuermer-maschinen.de

1.4 Notrufnummer / Emergency Telephone

Wählen Sie die passende Notrufnummer anhand des GHS-Symbols auf Ihrem Gefahrgut oder entsprechend Abschnitt 2.2 des orig. Sicherheitsdatenblattes *.
Call the appropriate emergency number using the GHS symbol on your dangerous goods or according to section 2.2 of the original safety data sheet *.

GHS Gefahren-piktogramm / GHS symbol	GHS-Kürzel/ GHS-no.	Mögliche Signalwörter/ Warning	Gefährdungsklassen / Description of hazards	Notrufnummer */ Emergency Phone *
	GHS01 bis GHS09			+49 (0)951 96555 - 590 Sammelnotrufnummer Gefahrstoffe
	GHS01	Gefahr oder Achtung / Danger or Attention	Explosive Stoffe/Gemische und Erzeugnisse mit Explosivstoff, selbstzersetzliche Stoffe/Gemische, organische Peroxide / Explosive substances / mixtures and products containing explosives, self-reactive substances / mixtures, organic peroxides	- 591
	GHS02	Gefahr oder Achtung / Danger or Attention	Selbstzersetzliche Stoffe/Gemische, organische Peroxide, entzündbare Gase, Aerosole Flüssigkeiten, Feststoffe, selbsterhitzungsfähige Gemische, pyrophore Flüssigkeiten und Feststoffe, Stoffe/Gemische, die bei Berührung mit Wasser entzündbare Gase bilden / Self-reactive substances / mixtures, organic peroxides, flammable gases, aerosols, liquids, solids, self-heating mixtures, pyrophoric liquids and solids, substances / mixtures which form flammable gases on contact with water	- 592
	GHS03	Gefahr oder Achtung / Danger or Attention	Oxidierende Gase, Flüssigkeiten, Feststoffe / Oxidizing gases, liquids, solids	- 593
	GHS04	Achtung / Attention	Verdichtete, verflüssigte, gelöste und tiefgekühlt verflüssigte Gase / Compressed, liquefied, dissolved and refrigerated liquefied gases	- 594
	GHS05	Gefahr oder Achtung / Danger or Attention	Verätzung der Haut, schwere Augenschäden, auch metallkorrosive Eigenschaften / Chemical burns to the skin, severe eye damage, also metal-corrosive properties	- 595
	GHS06	Gefahr / Danger	Äußerst schwere und schwere akute Gesundheitsschäden oder Tod / Extremely severe and severe acute damage to health or death	- 596
	GHS07	Achtung / Attention	Akute Gesundheitsschäden, Reizung der Haut, der Augen und der Atemwege, Sensibilisierung der Haut, narkotisierende Wirkungen / Acute damage to health, irritation of the skin, eyes and the respiratory tract, sensitization of the skin, narcotic effects	- 597
	GHS08	Gefahr oder Achtung / Danger or Attention	Chronische Gesundheitsschäden (Organschädigungen) bei einmaliger oder mehrmaliger Exposition, krebserzeugende, erbgutverändernde und fortpflanzungsgefährdende Wirkungen, Lungenschäden durch Eindringen von Substanzen in die Lunge (Aspirationsgefahr), Sensibilisierung der Atemwege / Chronic damage to health (damage to organs) after single or multiple exposure, carcinogenic, mutagenic and reproductive effects, lung damage due to the penetration of substances into the lungs (risk of aspiration), sensitization of the respiratory tract	- 598
	GHS09	Achtung oder ohne Signalwort / Attention or without wording	Giftig für Wasserorganismen mit kurz- und langfristiger Wirkung / Toxic to aquatic organisms with short and long-term effects	- 599

* 07:00 - 17:00 Uhr, außerhalb dieses Zeitraums kann die Nummer auf dem Sicherheitsdatenblatt angerufen werden / 07:00 am - 05:00 pm, outside this time, the number on the safety data sheet can be called

Für alle anderen Informationen siehe Original-Sicherheitsdatenblatt / For all other information, see the original safety data sheet

Material Safety Data Sheet

(REFRIGERANT R290 - Propane)

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

NAME: Shandong YUEAN CHEMICAL INDUSTRY CO., LTD

ADDRESS: HEZE, SHANDONG, CHINA 274000

TELEPHONE NUMBER: 0086 – 530- 5725388

MSDS IDENTIFICATION CODE/NUMBER: IA

EMERGENCY TELEPHONE NUMBER: 0086 – 530 - 5725388

CHEMTREC

PRODUCT NAME: Propane

CAS NUMBER: 74-98-6

CHEMICAL FAMILY: Aliphatic hydrocarbon

CHEMICAL FORMULA: C₃H₈

SYNONYMS: dimethylmethane

2. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDINT NAME	EXPOSURE LIMITS	CONCENTRATION PERSENT BY WEIGHT
Popane	No	99.0-99.9
CAS NUMBER:74-98-6	OSHA PEL -TWA:Simple Asphyxiant	

3. HAZARDA IDENTIFICATION

This product does not contain oxygen and may cause asphyxia if released in a confined area.

Simple

Hydrocarbons can cause irritation and central nervous system depression at high concentrations.

Extremely

Flammable

EYE EFFECTS:

None anticipated as product is a gas at room temperature.

SKIN EFFECTS:

None anticipated as product is a gas at room temperature.

INGESTION EFFECTS:

Ingestion is unlikely.

INHALATION EFFECTS:

Product is relatively nontoxic. Simple hydrocarbons can irritate the eyes, mucous membranes and respiratory system at high concentrations.

Inhalation of high concentrations may cause dizziness, disorientation, in coordination, narcosis, or nausea or narcotic.

This product may displace oxygen if released in a confined space. Maintain oxygen levels above 10% at sea level to prevent asphyxiation. Effects of oxygen deficiency resulting from simple asphyxiate may include: rapid breathing, diminished mental alertness, impaired muscular coordination, faulty judgment, depression of all sensations, emotional instability, and fatigue. As asphyxiation progresses, nausea, vomiting, prostration, and loss of consciousness may result, eventually leading to convulsions, coma, and death.

Oxygen deficiency during pregnancy has produced development abnormalities in humans and experimental animals.

4. FIRST AID MEASURES

EYES

Never introduce oil or ointment into the eyes without medical advice! If pain is present, refer the victim to ophthalmologist for further treatment and follow-up.

SKIN

Remove contaminated clothing and flush affected area with cold water and soap. If irritation persists, seek medical attention.

INGESTION

Not normally required. Seek immediate medical attention.

INHALATION

PROMPT MEDICAL ATTENTION IS MANDATORY IN ALL CASES OF OVEREXPOSURE OT PRODUCT. RESCUE PERSONNEL SHOULD BE EQUIPPED WITH SELF-CONTAINED BREATHING APPARATUS. Conscious persons should be assisted to an uncontaminated area and inhale fresh air. Quick removal from the contaminated area is most important. Unconscious persons should be moved to an uncontaminated area, given assisted(artificial) respiration and supplemental oxygen. Further treatment should be symptomatic and supportive.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

FLASH POINT: -104°C

AUTOIGNITION: -778°F (420°C)

LOWER EXPLOSIVE LIMIT (%): 2.1

UPPER EXPLOSIVE LIMIT (%): 9.5

FIRE AND EXPLOSION HAZARDS.

Propane is heavier than air and may travel a considerable distance to an ignition source.

Propane is a flammable gas! Keep away from open flame and other sources of ignition. Do not allow smoking in storage areas or when handling.

EXTINGUISHING MEDIA

Water, carbon dioxide, Dry chemical

FIRE FIGHTING INSTRUCTIONS

If possible, stop the flow of gas with a remote valve. Use water spray to cool exposed containers. If fire is extinguished and flow of gas continues, increase ventilation to prevent a build up of a flammable / explosive atmosphere. Extinguish sources of ignition.

Be cautious of Boiling Liquid Evaporating Vapor Explosion, BLEVE, if flame is impinging on surrounding containers. Direct a 500 GPM water stream onto containers above the liquid level with remote monitors. Limit the number of personnel in proximity to the fire. Evacuate surrounding area to at least 3000 feet in all directions.

6. ACCIDENTAL RELEASE MEASURES

Evacuate all personnel from affected area. Use appropriate protective equipment. Increase ventilation to prevent build up of flammable/explosive atmosphere. Extinguish all sources of ignition! If leak is in container or container valve, contact the appropriate emergency telephone number listed in Section 1 or call Advanced Gas Tech. or CHEMTREC.

7. HANDLING AND STORAGE**HANDLING AND STORAGE PRECAUTIONS**

Earth bond and ground all lines and equipment associated with the product system. Electrical equipment should be non-sparking and explosion proof. Use only in well-ventilated areas. Valve protection caps must remain in place unless container is secured with valve outlet piped to use point. Do not drag, slide, or roll cylinders. Use a pressure regulator when connecting to lower pressure (250psig) piping or systems. Do not heat cylinder by any means to increase the discharge rate of product from the cylinder. Use a check valve or trap in the discharge line to prevent hazardous back flow into the cylinder.

Protect cylinders from physical damage. Store in cool, dry, well-ventilated area away from heavily trafficked areas and emergency exits. Do not allow the temperature where cylinders are stored to exceed 130°F (54°C). Cylinders should be stored upright and firmly secured to prevent falling or being knocked over. Full and empty cylinders should be segregated. Use a 'first in – first out' inventory system to prevent full cylinders from being stored for excessive periods of time.

Post "No Smoking" signs in storage or use areas.

For additional recommendations consult Compressed Gas Association pamphlet P-1.

Never carry a compressed gas cylinder or container of a gas in cryogenic liquid form in an enclosed space such as a car trunk, van or station wagon. A leak can result in a fire, explosion, asphyxiation or a toxic exposure.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION
ENGINEERING CONTROLS

Use local exhaust to prevent gas from accumulating. Use general ventilation to prevent build up of

flammable concentrations. Use a hood with ventilation when handling small quantities. If product is handled routinely where the potential for leaks exists, all electrical equipment must be rated for use in potentially flammable atmospheres. Consult the National Electrical Code for detail.

EYE/FACE PROTECTION

Safety goggles or glasses

SKIN PROTECTION

Protective gloved made of plastic or rubber.

RESPIRATORY PROTECTION

Positive pressure air line with full-face mask and escape bottle or self-contained breathing apparatus should be available for emergency use.

OTHER/GENERAL PROTECTION

Safety shoes, safety shower, eyewash.

9. PHYSICAL AND CHEMICAL PROPERTIES**BASIC PHYSICAL PROPERTIES**

BOILING POINT: -42.1°C

MELTING POINT: -187.6°C

VAPOR PRESSURE: (25°C) 0.95

VAPOR DENSITY (25°C)g/cm³: 0.58

SOLUBILITY (H₂O): Very slight

Odor: A colorless, odorless gas.

10. STABILITY AND REACTIVITY

STABILITY: Stable. Avoid high temperatures. Product will start to decompose at 450°C

INCOMPATIBLE MATERIALS

Oxidizers

HAZARDOUS DECOMPOSITION PRODUCTS

Carbon Dioxide and Carbon monoxide if sufficient oxygen is present.

11. TOXICOLOGICAL INFORMATION

Oxygen deficiency during pregnancy has produced development abnormalities in humans and experimental animals.

No chronic effects data given in the Registry of toxic Effects of Chemical Substances(RTECS) or Sax Dangerous Priorities of industrial Materials.

12. ECOLOGICAL INFORMATION

NO DATA GIVEN

13. DISPOSAL CONSIDERATIONS

Do not attempt to dispose of waste or unused quantities. Return in the shipping container PROPERLY LABELED, WITH ANY VALVE OUTLET PLUGS OR GAPS SECURED AND VALVE PROTECTION CAP IN PLACE TO Advanced Gas Technologies for proper handling.

14. TRANSPORT INFORMATION

PROPER SHIPPING NAME:Propane

HAZARD CLASS: 2.1

DOT IDENTIFICATION NUMBER: UN1978

DOT SHIPPING LABEL: Flammable Gas

15. REGULATORY INFORMATION

SARA TITLE NOTIFICATIONS AND INFORMATION

SARA TITLE - HAZARD CLASSES: Acute Health Hazard

Fire Hazard

Sudden release of Pressure Hazard

16. OTHER INFORMATION

NFPA HAZARD RATING – HEALTH 1 Slight Hazard

FIRE 4 Severe Hazard

REACTIVITY 0 No Hazard

MSDS IDENTIFICATION CODE/NUMBER: IA

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