

Version 2.6 Revision Date 2022-09-07

According to Regulation (EC) No. 1907/2006, Regulation (EC) No. 2015/830

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1

### **Product information**

Product Name : Propylene (Polymer Grade, Unodorized)

Material : 1103433, 1102933, 1021731, 1015413, 1026827, 1029232

1.2

### Relevant identified uses of the substance or mixture and uses advised against

Relevant Identified Uses : Manufacture

Supported Use as an intermediate

Formulation

Use in polymer production – industrial

Use as a fuel - industrial
Use as a fuel - professional
Use as a fuel - consumer
Use as a propellant - industrial
Use as a propellant - professional
Use as a propellant - consumer

1.3

## Details of the supplier of the safety data sheet

Company : Chevron Phillips Chemical Company LP

10001 Six Pines Drive The Woodlands, TX 77380

Local : Chevron Phillips Chemicals International N.V.

Airport Plaza (Stockholm Building)

Leonardo Da Vincilaan 19

1831 Diegem Belgium

SDS Requests: (800) 852-5530

Responsible Party: Product Safety Group

Email:sds@cpchem.com

1.4

### **Emergency telephone:**

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Health:

866.442.9628 (North America) 1.832.813.4984 (International)

Transport:

CHEMTREC 800.424.9300 or 703.527.3887(int'l)

Asia: CHEMWATCH (+612 9186 1132) China: 0532 8388 9090

Mexico CHEMTREC 01-800-681-9531 (24 hours)

South America SOS-Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600

Argentina: +(54)-1159839431

EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

Austria: VIZ +43 1 406 43 43 (24 hours/day, 7 days/week) Belgium: 070 245 245 (24 hours/day, 7 days/week)

Bulgaria: +359 2 9154 233

Croatia: +3851 2348 342 (24 hours/day, 7 days/week)

Cyprus: 1401

Czech Republic: Toxicological Information Center +420 224 919 293, +420 224 915 402

Denmark: Danish Poison Center (Giftlinjen): +45 8212 1212 Estonia: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

Finland: 0800 147 111 09 471 977 (24 hours/day)

France: ORFILA number (INRS): + 33 (0) 1 45 42 59 59 (24 hours/day, 7 days/week)

Germany: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

Greece: (0030) 2107793777 (24 hours/day, 7 days/week) Hungary: +36-80-201-199 (24 hours/day, 7 days/week)

Iceland: 543 2222 (24 hours/day, 7 days/week)

Ireland: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Italy: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

Latvia: State Fire and Rescue Service, phone number: 112; Toxicology and Sepsis Clinic Poisoning and Drug Information Center, Hipokrāta 2, Riga, Latvia, LV-1038, phone number +371

67042473. (24 hours.)

Liechtenstein: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

Lithuania: +370 (85) 2362052

Luxembourg: (+352) 8002 5500 (24 hours/day, 7 days/week)

Malta: +356 2395 2000

The Netherlands: NVIC: +31 (0)88 755 8000 Norway: 22 59 13 00 (24 hours/day, 7 days/week)

Poland: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

Portugal: CIAV phone number: +351 800 250 250

Romania: +40213183606 Slovakia: +421 2 5477 4166 Slovenia: Phone number: 112

Spain: National Emergency Telephone Number of Spanish Poison Centre: +34 91 562 04 20 (24

hours/day, 7 days/week)

Sweden: 112 – ask for Poisons Information

Responsible Department : Product Safety and Toxicology Group

E-mail address : SDS@CPChem.com Website : www.CPChem.com

# **SECTION 2: Hazards identification**

### 2.1

# Classification of the substance or mixture REGULATION (EC) No 1272/2008

Flammable gases, Category 1A H220:

Extremely flammable gas.

Gases under pressure, Liquefied gas H280:

Contains gas under pressure; may explode if

heated.

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# **Propylene (Polymer Grade, Unodorized)**

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2.2

# Labeling (REGULATION (EC) No 1272/2008)

Hazard pictograms





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:

P410 + P403 Protect from sunlight. Store in a well-

ventilated place.

## **SECTION 3: Composition/information on ingredients**

#### 3.1 - 3.2

### **Substance or Mixture**

Synonyms : Propylene

Molecular formula : C3H6

### **Hazardous ingredients**

Chemical name	CAS-No. EC-No. Index No.	Classification (REGULATION (EC) No 1272/2008)	Concentration [wt%]
Propylene	<b>115-07-1</b> <b>204-062-1</b> 601-011-00-9	Flam. Gas 1; H220 Press. Gas Liquefied gas; H280	99
Propane	74-98-6 200-827-9 601-003-00-5	Flam. Gas 1; H220 Press. Gas Liquefied gas; H280	1

For the full text of the H-Statements mentioned in this Section, see Section 16.

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## **SECTION 4: First aid measures**

#### 4.1

### **Description of first-aid measures**

General advice : Move out of dangerous area. Show this material safety data

sheet to the doctor in attendance.

If inhaled : If unconscious, place in recovery position and seek medical

advice. If symptoms persist, call a physician.

: Flush eyes with water as a precaution. Remove contact In case of eye contact

lenses. Protect unharmed eye. Keep eye wide open while

rinsing. If eye irritation persists, consult a specialist.

: Keep respiratory tract clear. Do not give milk or alcoholic If swallowed

beverages. Never give anything by mouth to an unconscious

person. If symptoms persist, call a physician.

## **SECTION 5: Firefighting measures**

Flash point : -108°C (-162°F)

Method: closed cup

Autoignition temperature 460°C (860°F)

5.1

Extinguishing media

Suitable extinguishing

media

: Alcohol-resistant foam. Carbon dioxide (CO2). Dry chemical.

Unsuitable extinguishing

media

: High volume water jet.

5.3

Advice for firefighters

Special protective

equipment for fire-fighters

: Wear self-contained breathing apparatus for firefighting if

necessary.

Further information : For safety reasons in case of fire, cans should be stored

separately in closed containments. Use a water spray to cool

fully closed containers.

Fire and explosion

protection

: Do not spray on a naked flame or any incandescent material. Take necessary action to avoid static electricity discharge

(which might cause ignition of organic vapors). Use only explosion-proof equipment. Keep away from open flames, hot

surfaces and sources of ignition.

Hazardous decomposition

products

: Carbon oxides.

## **SECTION 6: Accidental release measures**

#### 6.1

Personal precautions, protective equipment and emergency procedures

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Personal precautions : Ensure adequate ventilation. Remove all sources of ignition.

Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can

accumulate in low areas.

6.2

**Environmental precautions** 

Environmental precautions : Prevent product from entering drains. Prevent further leakage

or spillage if safe to do so. If the product contaminates rivers

and lakes or drains inform respective authorities.

6.4

Reference to other sections

Reference to other sections : For personal protection see section 8. For disposal

considerations see section 13.

A quantitative risk assessment is not required for the environment. A quantitative risk assessment is not required for human health.

# **SECTION 7: Handling and storage**

7.1

# Precautions for safe handling Handling

Advice on safe handling : For personal protection see section 8. Smoking, eating and

drinking should be prohibited in the application area. Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work rooms. Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion

Do not spray on a naked flame or any incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Use only explosion-proof equipment. Keep away from open flames, hot

surfaces and sources of ignition.

7.2

### Conditions for safe storage, including any incompatibilities

### **Storage**

Requirements for storage areas and containers

Prevent unauthorized access. No smoking. Keep container tightly closed in a dry and well-ventilated place. Observe label precautions. Electrical installations / working materials must

comply with the technological safety standards.

# SECTION 8: Exposure controls/personal protection

8.1

## Control parameters Ingredients with workplace control parameters

SI

<del></del>					
Sestavine	Osnova	Vrednost	Parametri nadzora	Pripomba	
Propane	SI OEL	MV	1.000 ppm, 1.800 mg/m3		
	SI OEL	KTV	4.000 ppm, 7.200 mg/m3		

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SE		T.v., .		I
Beståndsdelar Propylene	Grundval SE AFS	Värde NGV	Kontrollparametrar 500 ppm, 900 mg/m3	Anmärkning
	OL AII O	1101	T 300 ppm, 300 mg/mo	1
Componente	Sursă	Valoare	Parametri de control	Notă
Propane	RO OEL	TWA	778 ppm, 1.400 mg/m3	Nota
	RO OEL	STEL	1.000 ppm, 1.800 mg/m3	
PΤ				
Componentes	Bases	Valor	Parâmetros de	Nota
Describes	DT OF	V/I E MD	controlo	
Propylene  A4 Agente não class	PT OEL sificável como carcinogénico no H	VLE-MP lomem.	500 ppm,	A4,
S .	g			
L Składniki	Podstawa	Wartość	Parametry dotyczące	Uwaga
Olidariiki	1 odolawa	VVarioso	kontroli	Owaga
Propylene	PL NDS	NDS	2.000 mg/m3	
Proposo	PL NDS	NDSch	8.600 mg/m3	
Propane	PL NDS	NDS	1.800 mg/m3	<u> </u>
10		T.,		
Komponenter	Grunnlag FOR-2011-12-06-	Verdi	Kontrollparametrer	Nota
Propane	FOR-2011-12-06- 1358	GV	500 ppm, 900 mg/m3	
ΛK	<u> </u>			
л <b>к</b> Съставки	Основа	Стойност	Параметри на	Бележка
0 20 1 42 1 11 1	00.1020		контрол	203.03
Propane	MK OEL	MV	1.000 ppm, 1.800 mg/m3	
V				
Sastāvdalas	Bāze	Vērtība	Pārvaldības parametri	Piezīme
Propylene	LV OEL	AER 8 st	100 mg/m3	
Propane	LV OEL	AER 8 st	100 mg/m3	
	LV OEL	AER īslaicīgā AER 8 st	300 mg/m3 1.000 ppm, 1.800 mg/m3	
	LVOLL	ALK 050	1.000 ppm, 1.000 mg/m3	ı
<u>.T</u>		T.,		15
Komponentai Propylene	Šaltinis LT OEL	Vertė IPRD	Kontrolės parametrai 500 ppm, 900 mg/m3	Pastaba
• •	El OLL	I II ND	500 ppm, 500 mg/ms	ı
<u>S</u>	I Ominata a	I Manak	IZtllt	LNI-II-
Komponenter Propane	Grunnlag IS OEL	Verdi TWA	Kontrollparametrer 1.000 ppm, 1.800 mg/m3	Nota
	10 OLL	1100	1.000 ppm, 1.000 mg/mo	ı
<u> </u>		Tv		LNI
Components Propylene	Basis IE OEL	Value OELV - 8 hrs (TWA)	Control parameters 500 ppm,	Note Asphx,
	cal substances which may not pro			
	tions will act as simple asphyxiant		<b>5</b>	, , , , , , , , , ,
IR				
Sastojci	Temelj	Vrijednost	Nadzorni parametri	Bilješka
Propane	HR OEL	GVI	100 ppm, 400 mg/m3	
SR .				
Συστατικά	Βάση	Τιμή	Παράμετροι ελέγχου	Σημείωση
Propane	GR OEL	TWA	1.000 ppm, 1.800 mg/m3	
•		Arvo	Valvontaa koskevat	Huomautus
•	Peruste		muuttujat	
1	Peruste		, , , , , , , , , , , , , , , , , , , ,	
I Aineosat Propylene	FIOEL	HTP-arvot 8h	500 ppm,	Liite 4,
Ti Aineosat	FI OEL FI OEL	HTP-arvot 8h	500 ppm, 800 ppm, 1.500 mg/m3	Liite 4,
Aineosat Propylene Propane	FI OEL FI OEL FI OEL		500 ppm,	
Propylene Propane  Liite 4 Happea syrjäyttä	FI OEL FI OEL	HTP-arvot 8h	500 ppm, 800 ppm, 1.500 mg/m3	Liite 4,
Propylene Propane  Liite 4 Happea syrjäyttä	FI OEL FI OEL FI OEL amällä tukehduttavat kaasut	HTP-arvot 8h HTP-arvot 15 min	500 ppm, 800 ppm, 1.500 mg/m3 1.100 ppm, 2.000 mg/m3	Liite 4, Liite 4,
Aineosat  Propylene Propane	FI OEL FI OEL FI OEL	HTP-arvot 8h	500 ppm, 800 ppm, 1.500 mg/m3	Liite 4,

SAFETY DATA SHEET Propylene (Polymer Grade, Unodorized) Version 2.6 Revision Date 2022-09-07 Komponendid, osad Kontrolliparameetrid Väärtus Märkused Alused EE OEL 1.000 ppm, 1.800 mg/m3 Propane Piirnorm Komponenter Basis Værdi Kontrolparametre Note DK OEL G۷ Propylene 100 ppm, 172 mg/m3 DK OEL G۷ 1.000 ppm, 1.800 mg/m3 Propane Inhaltsstoffe Wert Zu überwachende Grundlage Bemerkung Parameter Propane DE TRGS 900 AGW 1.000 ppm, 1.800 mg/m3 Inhaltsstoffe Wert Zu überwachende Grundlage Bemerkung Parameter 10.000 ppm, 17.500 Propylene MAK-Wert CH SUVA mg/m3 Propane CH SUVA MAK-Wert 1.000 ppm, 1.800 mg/m3 NIOSH, CH SUVA **KZGW** 4.000 ppm, 7.200 mg/m3 NIOSH NIOSH National Institute for Occupational Safety and Health Съставки Основа Стойност Параметри на Бележка контрол Propane BG OFI TWA 1.800 mg/m3 BE Bestanddelen Basis Waarde Controleparameters Opmerking Propylene BE OEL TGG 8 hr 500 ppm, 875 mg/m3 TGG 8 hr Propane BE OEL 1.000 ppm, BE OEL TGG 8 hr 1.000 ppm, gas Inhaltsstoffe Grundlage Wert Zu überwachende Bemerkung

#### 8.2

Propane

# Exposure controls Engineering measures

Adequate ventilation to control airborned concentrations below the exposure guidelines/limits. Consider the potential hazards of this material (see Section 2), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

MAK-TMW

MAK-KZW

### Personal protective equipment

Respiratory protection

If ventilation or other engineering controls are not adequate to maintain minimal oxygen content of 19.5% by volume under normal atmospheric pressure, a supplied-air NIOSH approved respirator may be appropriate. If exposure to harmful levels of airborne material may occur, a NIOSH approved respirator that provides protection may be appropriate, such as:. A positive pressure, air-supplying respirator may be appropriate if there is potential for uncontrolled release, aerosolization, exposure levels are not known, or other circumstances where air-purifying respirators may not provide adequate protection.

Parameter

1.000 ppm, 1.800 mg/m3

2.000 ppm, 3.600 mg/m3

Hand protection : The suitability for a specific workplace should be discussed

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AT OEL

AT OEL

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with the producers of the protective gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Eye protection : Eye wash bottle with pure water. Safety glasses.

Skin and body protection : Choose body protection in relation to its type, to the

concentration and amount of dangerous substances, and to the specific work-place. Wear as appropriate:. Flame retardant antistatic protective clothing. Workers should wear antistatic

footwear.

Hygiene measures : Wash hands before breaks and at the end of workday.

A quantitative risk assessment is not required for the environment. A quantitative risk assessment is not required for human health.

## **SECTION 9: Physical and chemical properties**

#### 9.1

### Information on basic physical and chemical properties

### **Appearance**

Form : compressed liquefied gas

Physical state : Gaseous
Color : Colorless
Odor : Sweet

Safety data

Flash point : -108°C (-162°F)

Method: closed cup

Lower explosion limit : 2,4 %(V)

Upper explosion limit : 10,1 %(V)

Oxidizing properties : No

Autoignition temperature : 460°C (860°F)

Molecular formula : C3H6

Molecular weight : 42,09 g/mol

pH : No data available

Freezing point : -185°C (-301°F)

Boiling point/boiling range : -47,7°C (-53,9°F)

Vapor pressure : 238,50 PSI

at 37,8°C (100,0°F) Method: Reid

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Relative density : 0,52

at 15,6 °C (60,1 °F)

Water solubility : Soluble in hydrocarbon solvents; partially souble in water.

Partition coefficient: n-

octanol/water

: No data available

Viscosity, kinematic : No data available

Relative vapor density : 1,5

(Air = 1.0)

Evaporation rate : No data available

## **SECTION 10: Stability and reactivity**

10.1

**Reactivity** : Stable under recommended storage conditions.

10.2

Chemical stability : This material is considered stable under normal ambient and

anticipated storage and handling conditions of temperature

and pressure.

10.3

Possibility of hazardous reactions

**Hazardous reactions**: Hazardous polymerization does not

occur.

Hazardous reactions: Vapors may form explosive mixture with

air.

10.4

**Conditions to avoid** : Heat, flames and sparks.

10.5

Materials to avoid : May react with oxygen and strong oxidizing agents, such as

chlorates, nitrates, peroxides, etc.

10.6

Hazardous decomposition

products

: Carbon oxides

Other data : No decomposition if stored and applied as directed.

## **SECTION 11: Toxicological information**

11.1

Information on toxicological effects

**Propylene (Polymer Grade, Unodorized)** 

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# **Propylene (Polymer Grade, Unodorized)**

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Acute oral toxicity : Negligible or unlikely exposure pathways

Acute inhalation toxicity

Propylene : LC50: > 86 mg/l

Exposure time: 4 h Species: Rat

Test atmosphere: gas Test substance: yes

Propane LC50: > 800000 ppm

Exposure time: 15 min

Species: Rat

Test atmosphere: gas

Propylene (Polymer Grade, Unodorized)

Acute dermal toxicity : Negligible or unlikely exposure pathways

**Propylene (Polymer Grade, Unodorized)** 

**Skin irritation** : Contact with liquid or refrigerated gas can cause cold burns

and frostbite.

**Propylene (Polymer Grade, Unodorized)** 

**Eye irritation** : Contact with liquid or refrigerated gas can cause cold burns

and frostbite.

Propylene (Polymer Grade, Unodorized)

**Sensitization** : This information is not available.

Repeated dose toxicity

Propylene : Species: Rat, Male and female

Sex: Male and female Application Route: Inhalation

Dose: 625,1250,2500,5000, 10000 ppm

Exposure time: 14 wk

Number of exposures: 6 Hr/d, 5 d/wk

NOEL: 10000 ppm

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# **Propylene (Polymer Grade, Unodorized)**

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Species: Mouse, Male and female

Sex: Male and female Application Route: Inhalation

Dose: 625,1250,2500,5000, 10000 ppm

Exposure time: 14 wk

Number of exposures: 6 Hr/d, 5 d/wk

NOEL: 10000 ppm

Species: Rat, Male and female

Sex: Male and female Application Route: Inhalation Dose: 0, 5000, 10000 ppm Exposure time: 103 wk

Number of exposures: 6 Hr/d, 5 d/wk Lowest observable effect level: 5000 ppm

Not classified due to data which are conclusive although

insufficient for classification.

Species: Mouse, Male and female

Sex: Male and female Application Route: Inhalation Dose: 0, 5000, 10000 ppm Exposure time: 103 wk

Number of exposures: 6 Hr/d, 5 d/wk Lowest observable effect level: 5000 ppm

Not classified due to data which are conclusive although

insufficient for classification.

Propane Species: Monkey

Application Route: Inhalation

Dose: 0, 750 ppm Exposure time: 90 day Number of exposures: daily

NOEL: > 750 ppm

Genotoxicity in vitro

Propylene : Test Type: Ames test

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Test Type: Mammalian cell gene mutation assay

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: Ambiguous

Propane Test Type: Ames test

Result: negative

Genotoxicity in vivo

Propylene : Test Type: Micronucleus test

Species: Rat

Route of Application: inhalation (gas) Method: OECD Test Guideline 474

Result: negative

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# **Propylene (Polymer Grade, Unodorized)**

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### Carcinogenicity

Propylene : Species: Rat

Dose: 0, 5000, 10000 ppm Exposure time: 103 wks

Number of exposures: 6 h/d, 5 d/wk Remarks: No evidence of carcinogenicity

Species: Mouse

Dose: 0, 5000, 10000 ppm Exposure time: 103 wks

Number of exposures: 6 h/d, 5 d/wk Remarks: No evidence of carcinogenicity

### Reproductive toxicity

Propylene : Species: Rat

Sex: male and female Application Route: Inhalation Dose: 0, 5000, 10000 ppm

Number of exposures: 6 hrs/d, 5 d/wk

Test period: 103 wks NOAEL Parent: 10000 ppm

Species: Mouse Sex: male and female Application Route: Inhalation Dose: 0, 5000, 10000 ppm

Number of exposures: 6 hrs/d, 5 d/wk

Test period: 103 wks NOAEL Parent: 10000 ppm

Propane Species: Rat

Sex: male and female Application Route: Inhalation Dose: 0, 1200, 4000, 12000 ppm

Exposure time: 6 weeks

Number of exposures: 6 hours/day, 7 days/week

Test period: 6 weeks Test substance: yes

Method: OECD Guideline 422 NOAEL Parent: 12000 ppm NOAEL F1: 12000 ppm

### **Developmental Toxicity**

Propylene : Species: Rat

Application Route: Inhalation Dose: 0, 200, 1000, 10000 ppm Number of exposures: 6 hrs/d

Test period: 14 d

Method: OECD Guideline 414 NOAEL Teratogenicity: 10000 ppm NOAEL Maternal: 10000 pmm

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**Aspiration toxicity** : No aspiration toxicity classification.

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# **Propylene (Polymer Grade, Unodorized)**

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#### **CMR** effects

Propylene : Carcinogenicity: Animal testing did not show any carcinogenic

effects.

Mutagenicity: Tests on bacterial or mammalian cell cultures

did not show mutagenic effects.

Teratogenicity: Animal testing did not show any effects on

fetal development.

Reproductive toxicity: Animal testing did not show any effects

on fertility.

Propane Carcinogenicity: Weight of evidence does not support

classification as a carcinogen

Mutagenicity: In vitro tests did not show mutagenic effects Teratogenicity: No evidence of adverse effects on sexual function and fertility, or on development, based on animal

experiments.

Reproductive toxicity: Weight of evidence does not support

classification for reproductive toxicity

### **Propylene (Polymer Grade, Unodorized)**

**Further information** 

: This product contains NORMS based RADON:

Carcinogenicity: IARC classification / Group 1 carcinogen Other: The amount of radon in the gas itself is not hazardous, but since radon rapidly decays (t1/2=3.82days) to form other radioactive elements including lead 210, polonium 210, and bismuth 210, equipments may contain radioactivity. The radon decay products are solids and therefore may attach to dust particles or form films in equipment. Inhalation, ingestions, or skin contact with radon decay products can lead to the deposit of radioactive material in the respiratory tract, bone, or blood forming organs, intestinal tract, and kidney, which may lead to certain cancers. Risks can be minimized by following good industrial and personal hygiene practices noted in section 7.

### **SECTION 12: Ecological information**

#### 12.1

**Toxicity** 

**Ecotoxicity effects** 

**Toxicity to fish** : No data available

12.2

## Persistence and degradability

Biodegradability : This material is not expected to be readily biodegradable.

12.3

#### Bioaccumulative potential

Elimination information (persistence and degradability)

Bioaccumulation : This material is not expected to bioaccumulate.

12.4

Mobility in soil

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Mobility : The product evaporates readily.

12.5

#### Results of PBT and vPvB assessment

Results of PBT assessment : This mixture contains no substance considered to be

persistent, bioaccumulating and toxic (PBT)., This mixture contains no substance considered to be very persistent and

very bioaccumulating (vPvB).

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of

0.1% or higher.

12.6

Other adverse effects

Additional ecological

: No data available

information

**Ecotoxicology Assessment** 

Short-term (acute) aquatic

hazard

: No data available

Long-term (chronic) aquatic

hazard

: No data available

## **SECTION 13: Disposal considerations**

#### 13.1

### Waste treatment methods

The information in this SDS pertains only to the product as shipped.

Use material for its intended purpose or recycle if possible. This material, if it must be discarded, may meet the criteria of a hazardous waste as defined by US EPA under RCRA (40 CFR 261) or other State and local regulations. Measurement of certain physical properties and analysis for regulated components may be necessary to make a correct determination. If this material is classified as a hazardous waste, federal law requires disposal at a licensed hazardous waste disposal facility.

Product : Do not dispose of waste into sewer. Do not contaminate

ponds, waterways or ditches with chemical or used container.

Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents. Dispose of as unused product.

Do not re-use empty containers. Do not burn, or use a cutting

torch on, the empty drum.

A quantitative risk assessment is not required for the environment. A quantitative risk assessment is not required for human health.

#### **SECTION 14: Transport information**

### 14.1 - 14.7

**Transport information** 

The shipping descriptions shown here are for bulk shipments only, and may not apply to shipments in non-bulk packages (see regulatory definition).

Consult the appropriate domestic or international mode-specific and quantity-specific Dangerous Goods Regulations for additional shipping description requirements (e.g., technical name or names, etc.) Therefore, the information shown here, may not always agree with the bill of lading shipping

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description for the material. Flashpoints for the material may vary slightly between the SDS and the bill of lading.

#### **US DOT (UNITED STATES DEPARTMENT OF TRANSPORTATION)**

UN1075, PETROLEUM GASES, LIQUEFIED, 2.1 NON- ODORIZED

#### IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)

UN1075, PETROLEUM GASES, LIQUEFIED, 2.1, (-108 °C c.c.)

### IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)

UN1075, 2.1: NOT PERMITTED FOR TRANSPORT

## ADR (AGREEMENT ON DANGEROUS GOODS BY ROAD (EUROPE))

UN1075, PETROLEUM GASES, LIQUEFIED, 2.1, (B/D)

# RID (REGULATIONS CONCERNING THE INTERNATIONAL TRANSPORT OF DANGEROUS GOODS (EUROPE))

23,UN1075,PETROLEUM GASES, LIQUEFIED, 2.1

# ADN (EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY INLAND WATERWAYS)

UN1075, PETROLEUM GASES, LIQUEFIED, 2.1

Maritime transport in bulk according to IMO instruments

### **SECTION 15: Regulatory information**

15.1

# Safety, health and environmental regulations/legislation specific for the substance or mixture National legislation

Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

Water hazard class : nwg not water endangering

(Germany) VwVwS

15.2

#### **Chemical Safety Assessment**

Components : propene 204-062-1

Major Accident Hazard : 96/82/EC Update: 2003

**Legislation** Extremely flammable

0 - 11 4 40 1

Quantity 1: 10 t

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Quantity 2: 50 t

: ZEU\_SEVES3 Update: FLAMMABLE GASES

P2

Quantity 1: 10 t Quantity 2: 50 t

: ZEU\_SEVES3 Update: FLAMMABLE GASES

P2

Quantity 1: 10 t Quantity 2: 50 t

**Notification status** 

Europe REACH : This product is in full compliance according to REACH

regulation 1907/2006/EC.

Europe REACH : On the inventory, or in compliance with the inventory Switzerland CH INV : On the inventory, or in compliance with the inventory

United States of America (USA) : On or in compliance with the active portion of the

TSCA TSCA inventory

Canada DSL : All components of this product are on the Canadian

DSL

Other AIIC : On the inventory, or in compliance with the inventory New Zealand NZIoC : On the inventory, or in compliance with the inventory

Japan ENCS : On the inventory, or in compliance with the inventory Korea KECI : A substance(s) in this product was not registered.

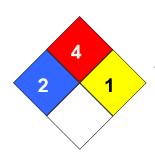
A substance(s) in this product was not registered, notified to be registered, or exempted from registration by CPChem according to K-REACH regulations. Importation or manufacture of this product is still permitted provided the Korean Importer of Record has themselves notified the substance or the exported amount does not exceed the minimum threshold quantity of the non-registered substance(s).

Philippines PICCS : On the inventory, or in compliance with the inventory Taiwan TCSI : On the inventory, or in compliance with the inventory China IECSC : On the inventory, or in compliance with the inventory

## **SECTION 16: Other information**

NFPA Classification : Health Hazard: 2

Fire Hazard: 4 Reactivity Hazard: 1



**Further information** 

Legacy SDS Number : 5349

Significant changes since the last version are highlighted in the margin. This version replaces all previous versions.

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The information in this SDS pertains only to the product as shipped.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Key or legend to abbreviations and acronyms used in the safety data sheet				
ACGIH	American Conference of Government Industrial Hygienists	LD50	Lethal Dose 50%	
AICS	Australia, Inventory of Chemical Substances	LOAEL	Lowest Observed Adverse Effect Level	
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agency	
NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupational Safety & Health	
CNS	Central Nervous System	NTP	National Toxicology Program	
CAS	Chemical Abstract Service	NZIoC	New Zealand Inventory of Chemicals	
EC50	Effective Concentration	NOAEL	No Observable Adverse Effect Level	
EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentration	
EGEST	EOSCA Generic Exposure Scenario Tool	OSHA	Occupational Safety & Health Administration	
EOSCA	European Oilfield Specialty Chemicals Association	PEL	Permissible Exposure Limit	
EINECS	European Inventory of Existing Chemical Substances	PICCS	Philippines Inventory of Commercial Chemical Substances	
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic	
GHS	Globally Harmonized System	RCRA	Resource Conservation Recovery Act	
>=	Greater Than or Equal To	STEL	Short-term Exposure Limit	
IC50	Inhibition Concentration 50%	SARA	Superfund Amendments and Reauthorization Act.	
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value	
IECSC	Inventory of Existing Chemical Substances in China	TWA	Time Weighted Average	
ENCS	Japan, Inventory of Existing and New Chemical Substances	TSCA	Toxic Substance Control Act	
KECI	Korea, Existing Chemical Inventory	UVCB	Unknown or Variable Composition, Complex Reaction Products, and Biological Materials	
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials Information System	
LC50	Lethal Concentration 50%	_		

#### Full text of H-Statements referred to under sections 2 and 3.

H220 Extremely flammable gas.

H280 Contains gas under pressure; may explode if heated.

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