

SAFETY DATA SHEET

According to Regulation (EC) no. 1907/2006

POLYMER GRADE PROPYLENE (99.5%)

Page 1 of 14

Product: **PROPYLENE**

Version: 1.1

Issue date: 18/02/2018

Supersedes: 20/02/2013



GHS02



GHS04

1. Identification of the substance / preparation and of the company / undertaking

Trade name	Propylene
Name of the product	POLYMER GRADE PROPYLENE (99.5%)
SDS Number	ATOF-003
Chemical name	Propylene (Gases (petroleum), steam-cracker C3- rich)
CAS number	115-07-1
Material Use	For more detailed information, see technical data sheet.

RESPONSIBLE FOR PLACING ON THE MARKET

Trade name of the firm sees below this page.

COMPANY INFORMATION

Company Name Qatar Petrochemical Company. (QAPCO)
 P.O.BOX 756, DOHA – QATAR

EMERGENCY CONTACT

For Spill, Leak, Fire, Exposure, or Accident
 Call CHEMTREC Day or Night
 Within USA and Canada: 1-800-424-9300 CCN724450
 Outside USA and Canada: +1 703-741-5970 and
 +1-703-527-3887 (collect calls accepted)

QAPCO - Qatar Petrochemical Company

P.O.BOX 756, Doha – Qatar

Main office: Doha

Tel: +974 44010 000

Fax: +974 4432 4700

<http://www.qapco.com.qa>

Mesaieed

Tel: +974 4477 7111

Fax: +974 4477 1346

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2. Hazards identification

Dangerous substances

Propylene

2.1 Classification of the substance

EC - GHS

Main hazards

Adverse human health effects

Inhalation
Skin contact
Eye contact
Ingestion

narcotic in case of inhalation of high concentration of vapour
Liquefied gas splashes may cause freeze burns
Liquefied gas splashes may cause freeze burns Irritating to eyes
ingestion during handling is not likely.

Adverse environmental effects

Adverse physicochemical effects

avoid losses to the environment whenever possible.
Extremely flammable flowing product can create electrostatic charge, resulting sparks may ignite or cause an explosion. In use, may form flammable / explosive vapour-air mixture. the vapour is heavier than air and explosive mixtures can accumulate in low spots: it may be ignited at some distance away from the spill resulting in flashbacks. spills or leaks may cause a high risk of fire and explosion.

2.2. Label elements

EC-GHS (CLP)

Classification according to the regulation EC 1272/2008 (EC-GHS) and ATP

Signal word
Pictogram(s)

Danger
GHS02, GHS04



H Phrase(s)

H220 - Extremely flammable gas.

P Phrase(s)

H280 - Contains gas under pressure; may explode if heated.
P201 - Obtain special instructions before use.
P210 - Keep away from heat/sparks/open flames/hot surfaces. — No smoking.
P243 - Take precautionary measures against static discharge.
P273 - Avoid release to the environment.

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P281 - Use personal protective equipment as required.
P309/311 - IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.
P377 - Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
P381 - Eliminate all ignition sources if safe to do so.
P410/403 - Protect from sunlight. Store in a well-ventilated place.
no information available

2.3. Other hazards

3. Composition / information on ingredients

Chemical name	Propylene
Concentration (%)	> 99 %
CAS number	115-07-1
EINECS or ELINCS number	204-062-1
EC-GHS (CLP) Class	Flam. Gas 1, H220 Press. Gas, H280
67/548/EEC & 1999/45/EC Symbol(s) R Phrase(s)	F+ 12

Substances presenting a health hazard

Chemical Name	Propane
---------------	---------

4. First-aid measures

4.1. Description of first aid measures

General instructions
IN CASE OF HEAVY OR PERSISTENT DISTURBANCES, CALL A DOCTOR OR SEEK MEDICAL ADVICE URGENTLY

Warning ! Extremely flammable gas

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Route of exposure

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing.
seek medical advice.
if necessary, give oxygen
if breathing has stopped: administer artificial respiration.
Keep under medical surveillance

Skin contact

Take off immediately all contaminated clothing
flush immediately with plenty of water.
clothing frozen to the skin should be thawed before being removed
freeze burns should be treated as thermal burns
in case of serious contact, seek hospital treatment

Eye contact

Do not wear contact lenses in any work area.
flush immediately with plenty of water.

Ingestion

Get medical advice (ophthalmologist)
ingestion during handling is not likely.

Protective equipment for first-aiders

Seek specialist advice at hospital or medical centre
wear suitable breathing equipment, in case of risk of exposure to vapour or fumes.

4.2. Most important symptoms and effects

refer to § 11 for more details on effects.

4.3. Indication of any medical attention

no information available

5. Fire - fighting measures

Technical measures

call the safety and environment service immediately.
avoid proximity or contact with hot surfaces, flames, electrostatic charges or sparks.
stop all flow of gas before extinguishing fire.
take precautionary measures against static discharge during blending and transfer operations.
vessel valves should be closed and all possible sources of ignition must be removed.
use fine spray or fog to control fire by preventing its spread and absorbing some of its heat.
keep tankage cool by continuous spraying with water (for non-cryogenic storage).

5.1. Extinguishing media

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Suitable
Not to be used

carbon dioxide (CO₂), dry chemicals, foam.
do not use water jets (stick jets) for extinguishing fire since they could help to spread the flames

5.2. Special hazards arising from the substance

complete combustion, with an excess of oxygen forms: carbon dioxide (CO₂) and water vapour.
partial combustion, forms also: carbon monoxide (CO), soot and cracked products: aldehydes, ketones
no smoking
vessel valves should be closed and all possible sources of ignition must be removed.
the vapour is heavier than air and explosive mixtures can accumulate in low spots: it may be ignited at some distance away from the spill resulting in flashbacks.
fire may cause pressure rise with risk of bursting and subsequent explosion

Special exposure hazards

5.3. Advice for firefighters

wear suitable breathing equipment, in case of risk of exposure to vapour or fumes.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

where exposure is likely, protective clothing must be worn including gloves goggles/spectacles

For emergency responders

wear suitable breathing equipment, in case of risk of exposure to vapour or fumes.

6.2. Environmental precautions

do not dispose off this product into the environment

6.3. Methods and material for containment and cleaning up

evacuate non-essential personnel call the fire brigade immediately.
no smoking
remove sources of ignition
stop the spill at source if possible, without endangering the operator.
maintain the level of gases under the explosion limits by artificial aeration.

on soil

the vapour is heavier than air and explosive mixtures can accumulate in low spots: it may be ignited at some distance away from the spill resulting in flashbacks.

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on Water the product evaporates into the atmosphere.
 the product evaporates into the atmosphere.

6.4. refer to points 8 and 13

7. Handling and storage

Important refer to any national measures that may be relevant.

7.1. Precautions for safe handling

Technical measures

never subject a cylinder to severe mechanical shock.
 In use, may form flammable / explosive vapour-air mixture.
 handle under adequate ventilation

Instructions for use

cleaning, inspection and maintenance of storage tanks
 requires the implementation of strict procedures
 working has to be made only on cold, degassed and
 ventilated storage tanks. (risk of explosive atmosphere)
 take precautionary measures against static discharge during
 blending and transfer operations.
 use explosion proof electrical equipment
 all conductive materials must be electrically earthed.

7.2. Conditions for safe storage, including any incompatibilities

Retain in the original container; if other containers are used:
 transfer, if necessary, all labelling information to the new
 container use only containers, joints, pipes, etc...made in a
 material suitable for use with either gaseous or liquefied
 hydrocarbons under pressure and at very low temperatures.
 Keep away from sources of ignition - No smoking.
 tanks should be grounded and provided with adequate
 pressure relief valve.
 store the cylinders outdoors and out of sunshine or other
 sources of radiation.
 can form explosive mixture with air particularly in empty
 uncleaned receptacles
 store away from heating source. avoid static electricity build
 up with connection to earth.
 avoid contact with strong oxidizing materials, acids and
 bases

Incompatible materials

container
 Suitable

stainless steel

7.3. SPECIFIC USE(S)

Recommended to professional users

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refer to point 8

8. Exposure controls / personal protection

8.1. CONTROL PARAMETERS OCCUPATIONAL EXPOSURE LIMIT

refer to any national measures that may be relevant.

Propylene:

US (ACGIH-2012): TLV- 8h TWA: 500 ppm - 860 mg/m³

Aliphatic hydrocarbon gases : Alkane [C1-C4]

US (ACGIH-2012): TLV- 8h TWA: 1000 ppm

ACGIH A4 category: not classifiable as a human carcinogen.

non required

non required

DNEL

PNEC

8.2. EXPOSURE CONTROLS

Appropriate engineering controls

The substance is not classified for human health or for the environment, and is not PBT or vPvB so that no exposure assessment or risk characterisation is required. For tasks where the intervention of workers is required, the substance must be handled in accordance with good industrial hygiene and safety procedures.

The substance is classified as extremely flammable and therefore the following conditions must be met to ensure safe use: "Risks are controlled by storage and use under conditions which avoid all ignition sources."

Occupational exposure controls

Personal protection



Respiratory protection

local exhaust ventilation may be needed when working in a closed area

if exposure is likely to exceed the occupational exposure limit, use a

autonomous breathing apparatus.

shower and eye fountain available. cold-

insulating gloves

Do not wear contact lenses in any work area.

goggles/spectacles

where exposure is likely, protective clothing must be worn

including gloves safety shoes (keg / gas cylinder

manipulation)

Skin and body protection

Eye protection

Other personal protection

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Industrial health measures

General use

handle in accordance with good industrial hygiene and safety procedures avoid producing or diffusing fumes, vapour or spray into the air.

(particular during loading or unloading product) do not store near food products.

When using, do not eat, drink or smoke.

Specific use

when the substance is manufactured, used as an intermediate,

formulated, distributed, transferred (e.g. loading, filling, dumping, charging/discharging from or to vessels/large containers at (non-) dedicated facilities, sampling for laboratory analysis), used in polymer production and processing, used as fuel, used as propellant, used as functional fluid or used as laboratory reagent, no specific RMM are required beyond good industrial hygiene and safety procedures

Environmental exposure controls

no specific RMM are required beyond good industrial hygiene and safety procedures.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state at 20°C	gas (compressed gas or compressed liquefied gas)
Colour	colourless
Odour	odourless - of hydrocarbons
Change in physical state at 1013 hPa	
Melting point (°C)	- 185
Initial boiling point (°C)	- 48
Flash point (ASTM D 93) (°C)	non required
Auto-ignition temperature (°C)	485
	the values of auto-ignition temperature are given without guarantee.
	indeed, these values vary widely depending on the source of information.
Explosion limits (% vol)	:
Upper	11,200
Lower	1,800
Vapour pressure (hPa)	> 1000
Behaviour with water at 20°C	insoluble
Solubility in water at 20°C (mg/l)	200 (T = 25°C)

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Soluble in	Hydrocarbons organic solvents
Log P n-octanol / water at 20°C	1,77
pH value (concentrated product)	not applicable
Viscosity (mm ² /s)	not applicable
Molecular weight (kg/kmol)	42

9.2. OTHER INFORMATION

no information available

10. Stability and reactivity

10.1. REACTIVITY

Extremely flammable

10.2. CHEMICAL STABILITY

hazardous polymerization may occur.

10.3. POSSIBILITY OF HAZARDOUS REACTIONS

In use, may form flammable / explosive vapour-air mixture.

10.4. CONDITIONS TO AVOID

avoid proximity or contact with hot surfaces, flames, electrostatic charges or sparks.

10.5. INCOMPATIBLE MATERIALS

Keep away from sources of ignition - No smoking.

avoid contact with strong oxidizing materials, acids and bases

10.6. HAZARDOUS DECOMPOSITION PRODUCTS

complete combustion, with an excess of oxygen forms: carbon dioxide (CO₂) and water vapour.

partial combustion, forms also: carbon monoxide (CO), soot and cracked products: aldehydes, ketones

11. Toxicological information

11.1. Information on toxicological effects

ACUTE TOXICITY

Symptoms related to use

Inhalation

in case of inhalation of high concentration of vapour: nausea, headache, drowsiness, dizziness, loss of consciousness, asphyxia

LOCAL EFFECT

Inhalation

in case of inhalation of high concentration of vapour: Irritating to respiratory system. lachrymation

Skin contact

Liquefied gas splashes may cause freeze burns

Eye contact

Liquefied gas splashes may cause freeze burns

irritation of ocular mucous membrane

Sensitization

Not a sensitizing agent

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SPECIFIC EFFECTS

Genotoxicity	this product has been found to be non-genotoxic (According to available experimental data)
Carcinogenicity	Absence of carcinogenic effects in animals (According to Available experimental data)
Reproductive toxicity Fertility	the product is not considered to be toxic to reproduction (rat) , (mouse) : inhalation / 3 month / 10000 ppm
Foetal development	no toxic effect on foetal development
STOT specific target organ toxicity	Studies of prolonged inhalation in animals have not shown chronic toxic effects.
STOT repeated exposure	no observed effect maximum dose / concentration (rat) / 3 month : 10000 ppm

12. Ecological information

Information on ecological effects avoid losses to the environment whenever possible.

12.1. TOXICITY

AQUATIC TOXICITY

Acute toxicity	51.7
96 hours-LC50-fish (mg/l)	28.2
48 hours-EC50-Daphnia magna (mg/l)	96 hour(s) 12.1
IC50-Algae (mg/l)	

TERRESTRIAL TOXICITY

no information available

12.2. PERSISTENCE AND DEGRADABILITY

Biodegradation soil and sediments air	this substance is slowly biodegradable adsorption is low : log Kow 1.77 Product released into the atmosphere is expected to undergo degradation in the presence of sunlight. potential bioaccumulation of the product in environment is low : log Kow 1.77
---	---

12.3. BIOACCUMULATIVE POTENTIAL

12.4. MOBILITY

water / air soil and sediments	the product evaporates into the atmosphere. because of its high volatility, the product is unlikely to cause ground or water pollution.
water	because of its high volatility, the product is unlikely to cause

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12.5. Results of PBT and vPvB assessment	ground or water pollution. non required
12.6. OTHER ADVERSE EFFECTS	no information available

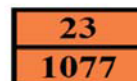
13. Disposal considerations

13.1. Waste treatment methods	hazardous waste dispose in a safe manner in accordance with local/national regulations. authorized disposal
Disposal of contaminated packaging	do not dispose off this product into the environment empty bags may contain flammable or explosive vapour all commercial cylinders must be returned to the supplier. dispose in a safe manner in accordance with local/national regulations.

14. Transport information

Road (ADR) / Rail (RID)

14.1. UN Number	1077
14.2. Proper shipping name	PROPYLENE
14.3. Class	2
classification code	2F
Hazard identification number	23
14.4. Packing Group	-
14.5. Dangerous for the environment	No
14.6. Special requirements	:
Code tunnel	B/D
Label(s)	2.1



Inland waterways (ADN)

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14.1. UN Number	1077
14.2. Name and description	PROPYLENE
14.3. Class	2
classification code	2F
14.4. Packing Group	-
14.5. Dangerous for the environment	no
14.6. Special requirements	:
Hazards	(2.1)
Label(s)	2.1

Marine (IMO)

IMDG

14.1. UN Number	1077
14.2. Proper shipping name	PROPYLENE
14.3. Class or division	2.1
Subsidiary risk	-
14.4. Packing group	-
14.5. IMDG-Marine pollution	no
14.6. Special requirements	:
IMDG-Ems	F-D, S-U
IMDG-Label(s)	2.1
14.7. IBC code	-

Air transport (ICAO / IATA)

14.1. UN (or ID) Number	1077
14.2. Proper shipping name	PROPYLENE
14.3. Class or division	2.1
Subsidiary risk	-
14.4. UN Packing group	-
14.5. Dangerous for the environment	no
14.6. Special requirements	prohibited in passenger aircraft
Hazard Label(s)	Class 2 - Gases: Flammable (Division 2.1)

15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Germany

Wassergefährdungsklasse

NWG: non-hazardous to waters

Registration

listed on the United States TSCA (Toxic Substances Control Act)
inventory

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Other

15.2. Chemical safety assessment

listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
 listed on the Japanese ENCS (Existing & New Chemical Substances) inventory.
 listed on the Canadian DSL (Domestic Substances List) inventory.
 listed on the AICS (the Australian Inventory of Chemical Substances).
 listed on the Korean ECL (Existing Chemical List) inventory.
 listed on the Filipino PICCS (Philippine Inventory of Chemicals and Chemical Substances) inventory.
 listed on the swiss inventory : SWISS
 listed on the ASIA-PAC inventory.
 listed on the NZ inventory.
 refer to any national measures that may be relevant.
 The substance is not classified for human health or for the environment, and is not PBT or vPvB so that no exposure assessment or risk characterisation is required. For tasks where the intervention of workers is required, the substance must be handled in accordance with good industrial hygiene and safety procedures.

16. Other information

Training advice

The use of this product requires specific training.
 The user must receive all product information in order to handle the product safely (personal protection equipment and best practice standards)
 R 12: Extremely flammable.
 H220 - Extremely flammable gas
 H280 - Contains gas under pressure; may explode if heated
 LOA

R Phrase(s) used

H Phrase(s) used

Sources of key data used

Safety data sheet conforms to the Regulation (EU) N° 1907/2006

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This information applies to the PRODUCT AS SUCH and conforming to specifications of QATAR PETROCHEMICAL COMPANY.

In case of formulations or mixtures, it is necessary to ascertain that a new danger will not appear.

The information contained is based on our knowledge of the product, at the date of publishing and it is given quite sincerely.

However the revision of some data is in progress.

Users are advised of possible additional hazards when the product is used in applications for which it was not intended. This sheet shall only be used and reproduced for prevention and security purposes.

The references to legislative, regulatory and codes of practice documents cannot be considered as exhaustive.

It is the responsibility of the person receiving the product to refer to the totality of the official documents concerning the use, the possession and the handling of the product.

It is also the responsibility of the handlers of the product to pass on to any subsequent persons who will come into contact with the product. (usage, storage, cleaning of containers, other processes) the totality of the information contained within this safety data sheet and necessary for safety at work, the protection of health and the protection of environment.

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