According to Regulation (EC) No.1907/2006



HARP® 1270, Propylene

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

Product name Propylene, R1270

Chemical formula C3H6

REACH registration number Registration deadline not expired.

Company Harp International Ltd

Gellihirion Industrial Estate

Pontypridd

Rhondda Cynon Taff

CF37 5SX

Tel: +44 (0) 1443 842255 Fax: +44 (0) 1443 841805 Email: harp@harpintl.com

Emergency phone number +44 (0) 1270 502891 (24 hour)

Use Refrigerant

2. Hazards identification

EC Classification of the substance or mixture

Hazard Class & category code:

Regulation (EC) No. 1272/2008 (CLP):

• **Physical hazards** Flammable gases - Category 1 - Danger (H220)

Gases under pressure - Liquefied gas -Warning (H280)

Classification EC67/548 or EC 1999/45 F+; R12

Label Elements

Labelling Regulation EC 1272/2008 (CLP)

• Hazard pictogram(s)



GHS02



• Hazard pictograms code GHS02 - GHS04.

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/sparks/open flames/hot surfaces - No

smoking.

-Response P377: Leaking gas fire: Do not extinguish unless leak can be stopped

safely.

P381: Eliminate all ignition sources if safe to do so.

-Storage P403 : Store in a well ventilated place.

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2. Hazards identification continued

Labelling EC 67/548 or EC 1999/45

Symbol(s) F+: Extremely flammable.



R Phrase(s) R12 : Extremely flammable.

S Safety phrase(s)
S9: Keep container in a well-ventilated place.
S16: Keep away from sources of ignition.

Other hazards

Other hazards None.

3. Composition / information on ingredients

Substance / PreparationSubstanceChemical name of substancePropyleneChemical formulaC3H8

EC No **Substance name** Contents CAS no. Index no. Registration no. Classification Propylene 100% 115-07-1 204-062-1 601-011-00-9 Note 2 F+: R12 Flam. Gas 1 (H220) Flam. Gas 1 (H220) Liq. Gas (H280)

Contains no other components or impurities which will influence the classification of the product.

Note 1: Listed in Annex IV / V REACH, exempted from registration.

Note 2 : Registration deadline not expired. Full text of R-phrases see chapter 16.

4. First aid measures



The first aid advice given for skin contact, eye contact and ingestion is applicable following exposures to the liquid or spray. Also see section

11.

Inhalation Remove patient from exposure, keep warm and at rest. Administer

oxygen if necessary. Apply artificial respiration if breathing has ceased or shows signs of failing. In the event of cardiac arrest apply external

cardiac massage. Obtain immediate medical attention.

Skin contact Thaw affected areas with water. Remove contaminated clothing.

Caution: clothing may adhere to the skin in the case of freeze burns. After contact with skin, wash immediately with plenty of warm water.

If irritation or blistering occur, obtain medical attention.

Eye contact Immediately irrigate with eyewash solution or clean water, holding the

eyelids apart for at least 15 minutes. Obtain immediate medical

attention.

Ingestion Unlikely route of exposure. Do not induce vomiting. Provided the

patient is conscious, wash out mouth with water and give 200-300ml (half a pint) of water to drink. Obtain immediate medical attention.

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5. Fire-fighting measures

Specific hazards Exposure to fire may cause containers to rupture/explode.

Hazardous combustion products Incomplete combustion may form carbon monoxide.

Extinguishing media

-Suitable extinguishing media

Specific methods

All known extinguishants can be used.

If possible, stop flow of product.

Move away from the container and cool with water from a protected

position.

Do not extinguish a leaking gas flame unless absolutely necessary. Spontaneous/explosive re-ignition may occur. Extinguish any other

fire.

Special protective equipment for fire

fighters

In confined space use self-contained breathing apparatus.

6. Accidental release measures

Personal precautions Wear self-contained breathing apparatus when entering area unless

atmosphere is proved to be safe.

Evacuate area.

Ensure adequate air ventilation. Eliminate ignition sources.

Environmental precautions Try to stop release.

Prevent from entering sewers, basements and work-pits or any place

where its accumulation can be dangerous.

Clean up measures Ventilate area.

7. Handling and storage

Handling Take precautionary measures against static discharge.

Suck back of water into the container must be prevented.

Purge air from systems before introducing gas. Do not allow back-feed into the container.

Use properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in

doubt.

Keep away from ignition sources (including static discharges).

Refer to suppliers container handling instructions.

Storage Segregate from oxidant gases and other oxidants in store.

Keep container below 50°C in a well ventilated place.

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8. Exposure controls / personal protection

Personal protection Wear suitable protective clothing, gloves and eye/face protection.

Wear thermal insulating gloves when handling liquefied gases. In

cases of insufficient ventilation, where exposure to high

concentrations of vapour is possible, suitable respiratory protective

equipment with positive air supply should be used.

Do not smoke while handling product.



Eye Protection



Gloves

9. Physical and chemical properties

Form Liquefied gas

Physical state at 20°C Gas
Colour Colourless

Odour Sweetish. Poor warning properties at low concentrations.

Molecular weight 42 Solubility in water [mg/l] 384 Boiling point (°C) -47.7 Melting point (°C) -185.0Relative density, gas (air=1) 1.5 **Relative density, liquid (water =1)** 0.6 Vapour pressure (20°C) 10.2 bar Flammability range [vol% in air] 1.8 to 11.0 Auto ignition temperature [°C] 455

Other data Gas/vapour heavier than air. May accumulate in confined spaces,

particularly at or below ground level.

10. Stability and reactivity

Hazardous decomposition products None.

Incompatible materials Can form explosive mixture with air.

May react violently with oxidants.

Air, oxidiser.

Conditions to avoid Keep away from heat, sparks, open flames, hot surfaces. No smoking.

11. Toxicological information

Toxicity information No known toxicological effects from this product.

12. Ecological information

Ecological effects informationNo known ecological damage caused by this product.

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13. Disposal information

General Do not discharge into areas where there is a risk of forming an

explosive mixture with air. Waste gas should be flared through a

suitable burner with flashback arrestor.

Do not discharge into a place where its accumulation could be

dangerous. Contact supplier if guidance is needed.

14. Transport information

UN No. 1077

Labelling ADR, IMDG, IATA



2.1: flammable gas

Land transport

ADR/RID

H.I.nr 23

UN Proper shipping name Propylene

Transport hazard class(es) 2
-ADR/RID Classification code 2 F
-Packing instruction(s) - General P200

-Tunnel instructions B/D Tank carriage: Passage forbidden through tunnels of category B,

C, D and E;

Other carriage: Passage forbidden through tunnels of category D and

E.

Sea transport

-IMO-IMDG code

Proper shipping namePropyleneClass2.1-IMO Packing groupP200-Emergency schedule (EmS) - FireF-D

-Emergency schedule (EmS)- Spillage S-U -Instructions – Packing P200

Air transport

-ICAO/IATA

-Proper shipping name Propylene Class 2.1

Passenger and cargo aircraft

Cargo aircraft only

-Packing instruction 200

Avoid transport on vehicles where the load space is not separated from the drivers compartment.

Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or emergency.

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14. Transport information continued

Before transporting containers:

- -Ensure containers are firmly secured.
- -Ensure cylinder valve is closed and not leaking.
- -Ensure valve outlet cap nut or plug (where provided) is correctly fitted.
- -Ensure valve protection device (where provided) is correctly fitted.
- -Ensure there is adequate ventilation.
- -Compliance with applicable regulations.

15. Regulatory information

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

Ensure all national/local regulations are observed.

SEVESO Regulation 96/82/EC

Listed.

16. Other information

Ensure operators understand the flammability hazard.

Contact with liquid may cause burns/frostbite.

The hazard of asphyxiation is often overlooked and must be stressed during operator training.

List of full text of R-phrases in section 3 : R12 : Extremely flammable.

This datasheet was prepared in accordance with Regulation (EC) No. 1907/2006.

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