

Propylene

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 SDS Reference Number: EIGA105-ALBNL Issue date: 1-7-2017 Revision date: 1-10-2025 Supersedes version of: 3-7-2023 Version: 6.0

Danger



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

1.1. Product identifier

Trade name : Propylene SDS no EIGA105-ALBNL Other means of identification Propylene

> CAS-No. : 115-07-1 EC-No. : 204-062-1 EC Index-No. : 601-011-00-9

REACH registration No : 01-2119447103-50

Chemical formula

1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses : Test gas/Calibration gas.

> Chemical reaction / Synthesis. Laboratory and Process control.

Contact supplier for more information on uses.

Polymer production.

Industrial use. Perform risk assessment prior to use.

Uses advised against Consumer use.

Uses other than those listed above are not supported, contact your supplier for more

information on other uses.

1.3. Details of the supplier of the safety data sheet

THE NETHERLANDS:

AIR LIQUIDE BV De Witbogt 1 5652 AG Eindhoven the Netherlands-Nederland Tel: +31 (0)40 250 35 03

BELGIUM:

L'AIR LIQUIDE BELGE S.A./N.V. Hermeslaan 11 1932 Zaventem Belgium-Belgique-België Tel: +32 (0)2 540 86 60

LUXEMBURG:

L'AIR LIQUIDE LUXEMBOURG S.A. ZONE P.E.D.-B.P.20 L-4801 RODANGE Luxemburg

Tel: +352 26 30 29 03

infosafetydatasheet.albv@airliquide.com www.airliquide-benelux.com



Propylene

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 SDS Reference Number: EIGA105-ALBNL

1.4. Emergency telephone number

Country/Area	Organisation/Company	Address	Emergency number	Comment
Belgium	Centre Anti-Poisons/Antigifcentrum c/o Hôpital Militaire Reine Astrid	Rue Bruyn 1 1120 Bruxelles/Brussel	+32 70 245 245	Please dial: 070 245 245 for any urgent questions about intoxication (free of charge 24/7), if not accessible, dial: 02 264 96 30 (standard fee)
Luxembourg	Centre Anti-Poisons/Antigifcentrum c/o Hôpital Militaire Reine Astrid	Rue Bruyn 1 1120 Bruxelles/Brussel	+352 8002 5500	Free telephone number with a 24/7 access. Experts answer all urgency questions on dangerous products in French, Dutch and English
Netherlands	Nationaal Vergiftigingen Informatie Centrum	Huispostnummer Q03.2.315 Postbus 85500 3508 GA Utrecht	+31 88 755 80 00	Only for the purpose of informing medical personnel in cases of acute intoxications (24 hours a day, 7 days a week)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Physical hazards Flammable gases, Category 1A H220

Gases under pressure : Liquefied gas H280

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)





GHS04

GHS02

Signal word (CLP) : Danger

Hazard statements (CLP) : H220 - Extremely flammable gas.

H280 - Contains gas under pressure; may explode if heated.

Precautionary statements (CLP)

- 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.

AIR LIQUIDE BeNeLux Hermeslaan 1932 Zaventem Belgium, 0032 (0) 2 540 EU - en



Propylene

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 SDS Reference Number: EIGA105-ALBNL

2.3. Other hazards

Asphyxiant in high concentrations.

Contact with liquid may cause cold burns/frostbite.

These high concentrations are within the flammability range.

Not classified as PBT or vPvB.

The substance/mixture has no endocrine disrupting properties.

Not classified as PMT or vPvM.

SECTION 3: Composition/information on ingredients

3.1. Substances

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP] ATE, EUH-statements, M-Factors
Propylene	CAS-No.: 115-07-1 EC-No.: 204-062-1 EC Index-No.: 601-011-00-9 REACH registration No: 01-2119447103- 50	100	Flam. Gas 1A, H220 Press. Gas (Liq.), H280

Full text of H- and EUH-statements: see section 16

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

3.2. Mixtures Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

- Inhalation : Remove victim to uncontaminated area wearing self contained breathing apparatus. Keep

victim warm and rested. Call a doctor. Perform cardiopulmonary resuscitation if breathing

stopped.

- Skin contact : In case of frostbite spray with water for at least 15 minutes. Apply a sterile dressing. Obtain

medical assistance.

- Eye contact : Immediately flush eyes thoroughly with water for at least 15 minutes.

- Ingestion : Ingestion is not considered a potential route of exposure.

4.2. Most important symptoms and effects, both acute and delayed

In high concentrations may cause asphyxiation. Symptoms may include loss of

mobility/consciousness. Victim may not be aware of asphyxiation.

In low concentrations may cause narcotic effects. Symptoms may include dizziness,

headache, nausea and loss of co-ordination.

See section 11.

4.3. Indication of any immediate medical attention and special treatment needed

None.

EU - en



Propylene

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 SDS Reference Number: EIGA105-ALBNL

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Water spray or fog.

> Dry powder. Carbon dioxide.

Shutting off the source of the gas is the preferred method of control.

Be aware of the risk of formation of static electricity with the use of CO2 extinguishers. Do

not use them in places where a flammable atmosphere may be present.

: Do not use water jet to extinguish. - Unsuitable extinguishing media

5.2. Special hazards arising from the substance or mixture

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

Hazardous combustion products Carbon monoxide.

5.3. Advice for firefighters

Specific methods : Use fire control measures appropriate for the surrounding fire. Exposure to fire and heat

> radiation may cause gas receptacles to rupture. Cool endangered receptacles with water spray jet from a protected position. Prevent water used in emergency cases from entering

sewers and drainage systems. If possible, stop flow of product.

Use water spray or fog to knock down fire fumes if possible.

Do not extinguish a leaking gas flame unless absolutely necessary. Spontaneous/explosive

re-ignition may occur. Extinguish any other fire.

Move containers away from the fire area if this can be done without risk.

Special protective equipment for fire fighters

In confined space use self-contained breathing apparatus.

Standard protective clothing and equipment (Self Contained Breathing Apparatus) for fire

fighters.

Standard EN 137 - Self-contained open-circuit compressed air breathing apparatus with full

face mask

Standard EN 469 - Protective clothing for firefighters. Standard - EN 659: Protective gloves

for firefighters. EN 15090 Footwear for firefighters. EN 443 Helmets for fire fighting in

buildings and other structures.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel Act in accordance with local emergency plan.

> Try to stop release. Evacuate area.

Eliminate ignition sources. Ensure adequate air ventilation.

Prevent from entering sewers, basements and workpits, or any place where its

accumulation can be dangerous.

Stay upwind.

See section 8 of the SDS for more information on personal protective equipment.

For emergency responders Monitor concentration of released product.

Consider the risk of potentially explosive atmospheres.

Wear self-contained breathing apparatus when entering area unless atmosphere is proved

4/18

See section 5.3 of the SDS for more information.

6.2. Environmental precautions

Try to stop release.

6.3. Methods and material for containment and cleaning up

Ventilate area.

AIR LIQUIDE BeNeLux EU - en



Propylene

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 SDS Reference Number: EIGA105-ALBNL

6.4. Reference to other sections

See also sections 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Safe use of the product

: Do not breathe gas.

Avoid release of product into atmosphere.

The product must be handled in accordance with good industrial hygiene and safety procedures.

Only experienced and properly instructed persons should handle gases under pressure.

Consider pressure relief device(s) in gas installations.

Ensure the complete gas system was (or is regularily) checked for leaks before use.

Do not smoke while handling product.

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

Avoid suck back of water, acid and alkalis.

Assess the risk of potentially explosive atmospheres and the need for explosion-proof equipment.

Purge air from system before introducing gas.

Take precautionary measures against static discharge.

Keep away from ignition sources (including static discharges).

Consider the use of only non-sparking tools.

Ensure equipment is adequately earthed.

: Do not allow backfeed into the container.

Protect containers from physical damage; do not drag, roll, slide or drop.

When moving cylinders, even for short distances, use a cart (trolley, hand truck, etc.)

designed to transport cylinders.

Leave valve protection caps, when provided, in place until the container has been secured against either a wall or bench or placed in a container stand and is ready for use.

If user experiences any difficulty operating valve discontinue use and contact supplier.

Never attempt to repair or modify container valves or safety relief devices.

Damaged valves should be reported immediately to the supplier.

Keep container valve outlets clean and free from contaminants particularly oil and water. Replace valve outlet caps or plugs and container caps where supplied as soon as container

is disconnected from equipment.

Close container valve after each use and when empty, even if still connected to equipment.

Never attempt to transfer gases from one cylinder/container to another.

Never use direct flame or electrical heating devices to raise the pressure of a container.

Do not remove or deface labels provided by the supplier for the identification of the content

of the container.

Suck back of water into the container must be prevented.

Open valve slowly to avoid pressure shock.

7.2. Conditions for safe storage, including any incompatibilities

Observe all regulations and local requirements regarding storage of containers.

Containers should not be stored in conditions likely to encourage corrosion.

Container valve guards or caps, when provided, should be in place.

Containers should be stored in the vertical position and properly secured to prevent them from falling over.

Stored containers should be periodically checked for general condition and leakage.

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

Store containers in location free from fire risk and away from sources of heat and ignition.

Keep away from combustible materials.

Segregate from oxidant gases and other oxidants in store.

All electrical equipment in the storage areas should be compatible with the risk of a potentially explosive atmosphere.

Safe handling of the gas receptacle



Propylene

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 SDS Reference Number: EIGA105-ALBNL

7.3. Specific end use(s)

None

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Propylene (115-07-1)		
Belgium - Occupational Exposure Limits		
Local name	Propylène # Propeen	
OEL TWA	875 mg/m³	
	500 ppm	
Regulatory reference	Koninklijk besluit/Arrêté royal 16/11/2023	

DNEL (Derived-No Effect Level) : None established.

Propylene (115-07-1)		
PNEC: Predicted no effect concentration		
Aqua (freshwater)	1,38 mg/l	
Aqua (marine water)	1,38 mg/l	

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Provide adequate general and local exhaust ventilation.

Product to be handled in a closed system.

Systems under pressure should be regularily checked for leakages. Ensure exposure is below occupational exposure limits (where available). Gas detectors should be used when flammable gases/vapours may be released.

Consider the use of a work permit system e.g. for maintenance activities.

8.2.2. Individual protection measures, e.g. personal protective equipment

A risk assessment should be conducted and documented in each work area to assess the risks related to the use of the product and to select the PPE that matches the relevant risk.

The following recommendations should be considered:

PPE compliant to the recommended EN/ISO standards should be selected.

: Wear goggles when transfilling or breaking transfer connections.

Standard EN 166 - Personal eye-protection - specifications.

Skin protection

· Eye/face protection

- Hand protection : Wear working gloves when handling gas containers.

Standard EN 388 - Protective gloves against mechanical risks, performance level 1 or higher. Recommended types include wrist gloves from leather or synthetic material with

equivalent performance, fabric gloves, fabric gloves with leather palms. Wear cold insulating gloves when transfilling or breaking transfer connections.

Standard EN 511 - Cold insulating gloves, performance level 1 or higher. Recommended types include insulated gauntlets or gloves specifically selected to prevent liquid penetration

and ingress of cryogenic liquids and to provide mechanical resistance.

- Other Consider the use of flame resistant anti-static safety clothing.

> Standard EN ISO 14116 - Limited flame spread materials. Standard EN 1149-5 - Protective clothing: Electrostatic properties.

Wear safety shoes while handling containers.

Standard EN ISO 20345 - Personal protective equipment - Safety footwear.

AIR LIQUIDE BeNeLux Hermeslaan 1932 Zaventem Belgium, 0032 (0) 2 540 8660

EU - en

6/18



Propylene

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 SDS Reference Number: EIGA105-ALBNL

Respiratory protection
 Standard EN 137 - Self-contained open-circuit compressed air breathing apparatus with full

face mask.

Consult respiratory device supplier's product information for the selection of the appropriate

device

Self contained breathing apparatus (SCBA) or positive pressure airline with mask are to be

used in oxygen-deficient atmospheres.

Self contained breathing apparatus is recommended, where unknown exposure may be

expected, e.g. during maintenance activities on installation systems.

• Thermal hazards : None in addition to the above sections.

8.2.3. Environmental exposure controls

Refer to local regulations for restriction of emissions to the atmosphere. See section 13 for

specific methods for waste gas treatment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

- Physical state at 20°C / 101.3kPa- Colour: Gas.- Colourless.

Odour : Stenchant often added. Sweetish. Poor warning properties at low concentrations.

Melting point / Freezing point : -185 $^{\circ}$ C Boiling point : -47,7 $^{\circ}$ C

Flammability : Extremely flammable gas.

Lower explosion limit : 1,8 vol % Upper explosion limit : 11,2 vol %

Flash point : Not applicable for gases and gas mixtures.

Auto-ignition temperature : 485 °C

Decomposition temperature : Not applicable.

pH : Not applicable for gases and gas mixtures.

Viscosity, kinematic : No reliable data available.

Water solubility [20°C] : 384 mg/l
Partition coefficient n-octanol/water (Log Kow) : 1,77
Vapour pressure [20°C] : 10,2 bar(a)
Vapour pressure [50°C] : 20,5 bar(a)

Density and/or relative density : Not applicable for gases and gas mixtures.

Relative vapour density (air=1) : 1,5

Particle characteristics : Not applicable for gases and gas mixtures.

Nanoforms are not relevant for gases and gas mixtures.

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Tci : 4,2 %

Oxidising properties : No oxidising properties.

Critical temperature [°C] : 92,4 °C

9.2.2. Other safety characteristics

Molar mass : 42 g/mol

Other data : Gas/vapour heavier than air. May accumulate in confined spaces, particularly at or below

ground level.

SECTION 10: Stability and reactivity

10.1. Reactivity

No reactivity hazard other than the effects described in sub-sections below.

AIR LIQUIDE BeNeLux EU - en 7/18



Propylene

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 SDS Reference Number: EIGA105-ALBNL

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Can form explosive mixture with air. May react violently with oxidants.

10.4. Conditions to avoid

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

Avoid moisture in installation systems.

10.5. Incompatible materials

Air, Oxidisers.

For additional information on compatibility refer to ISO 11114.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not

be produced.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity : Toxicological effects not expected by inhalation from this product if occupational exposure

limit values are not exceeded.

 Skin corrosion/irritation
 : No known effects from this product.

 Serious eye damage/irritation
 : No known effects from this product.

 Respiratory or skin sensitisation
 : No known effects from this product.

 Germ cell mutagenicity
 : No known effects from this product.

Carcinogenicity : No known effects from this product.

Toxic for reproduction : Fertility : No known effects from this product.

Toxic for reproduction : unborn child : No known effects from this product.

STOT-single exposure : No known effects from this product.

STOT-repeated exposure : No known effects from this product.

Aspiration hazard : Not applicable for gases and gas mixtures.

11.2. Information on other hazards

Other information : The substance/mixture has no endocrine disrupting properties.

SECTION 12: Ecological information

12.1. Toxicity

Assessment : Classification criteria are not met.

 EC50 48h - Daphnia magna [mg/l]
 : 28,2 mg/l

 EC50 72h - Algae [mg/l]
 : No data available.

 LC50 96 h - Fish [mg/l]
 : 51,7 mg/l

12.2. Persistence and degradability

Assessment : The substance is readily biodegradable. Unlikely to persist.

12.3. Bioaccumulative potential

Assessment : Not expected to bioaccumulate due to the low log Kow (log Kow < 4).

See section 9.

12.4. Mobility in soil

Assessment : Because of its high volatility, the product is unlikely to cause ground or water pollution.

Partition into soil is unlikely.

AIR LIQUIDE BeNeLux EU - en 8/18



Propylene

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 SDS Reference Number: EIGA105-ALBNL

12.5. Results of PBT and vPvB assessment

Assessment : Not classified as PBT or vPvB.

12.6. Endocrine disrupting properties

Assessment : The substance/mixture has no endocrine disrupting properties.

12.7. Other adverse effects

Other adverse effects : Not classified as PMT or vPvM.

Effect on the ozone layer : No effect on the ozone layer.

Global warming potential [CO2=1] : 0

Effect on global warming : No known effects from this product.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Contact supplier if guidance is required.

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 flash back arrestor. Do not discharge into any place where its accumulation could be dangerous. Ensure that the emission levels from local regulations or operating permits are not

exceeded.

Refer to the EIGA code of practice Doc.30 "Disposal of Gases", downloadable at

http://www.eiga.org for more guidance on suitable disposal methods.

Return unused product in original container to supplier.

List of hazardous waste codes (from Commission

Decision 2000/532/EC as amended)

16 05 04 *: Gases in pressure containers (including halons) containing hazardous

substances.

13.2. Additional information

External treatment and disposal of waste should comply with applicable local and/or national regulations.

SECTION 14: Transport information

14.1. UN number or ID number

In accordance with ADR / RID / IMDG / IATA / ADN

UN-No. : 1077

14.2. UN proper shipping name

Transport by road/rail/inland waterways

(ADR/RID/ADN)

Transport by air (ICAO-TI / IATA-DGR) : Propylene
Transport by sea (IMDG) : PROPYLENE

14.3. Transport hazard class(es)

Labelling



: PROPYLENE

2.1: Flammable gases.

Transport by road/rail/inland waterways (ADR/RID/ADN)

Class : 2
Classification code : 2F
Hazard identification number : 23

Tunnel Restriction : 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



Propylene

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 SDS Reference Number: EIGA105-ALBNL

Transport by air (ICAO-TI / IATA-DGR)

Class / Div. (Sub. risk(s)) : 2.1

Transport by sea (IMDG)

Class / Div. (Sub. risk(s)) : 2.1
Emergency Schedule (EmS) - Fire : F-D
Emergency Schedule (EmS) - Spillage : S-U

14.4. Packing group

Transport by road/rail/inland waterways

(ADR/RID/ADN)

: Not applicable.

Transport by air (ICAO-TI / IATA-DGR) : Not applicable.

Transport by sea (IMDG) : Not applicable.

14.5. Environmental hazards

Transport by road/rail/inland waterways

(ADR/RID/ADN)

Transport by air (ICAO-TI / IATA-DGR) : None.
Transport by sea (IMDG) : None.

14.6. Special precautions for user

Packing Instruction(s)

Transport by road/rail/inland waterways

(ADR/RID/ADN)

: P200.

: None.

Transport by air (ICAO-TI / IATA-DGR)

Passenger and Cargo Aircraft : Forbidden.
Cargo Aircraft only : 200.
Transport by sea (IMDG) : P200.

Special transport precautions : Avoid transport on vehicles where the load space is not separated from the driver's

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 an emergency.
Before transporting product containers:
- Ensure there is adequate ventilation.
- Ensure that containers are firmly secured.
- Ensure 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.

14.7. Maritime transport in bulk according to IMO instruments

Not applicable.

SECTION 15: Regulatory information

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

EU-Regulations

Restrictions on use : None.

Other information, restriction and prohibition : Not listed on the PIC list (Regulation EU 649/2012). regulations : Not listed on the POP list (Regulation EU 2019/1021).

Seveso Directive: 2012/18/EU (Seveso III) : Covered.

Seveso III Part I (Categories of dangerous substances)	Qualifying quantity (tonnes)	
	Lower-tier	Upper-tier
P2 FLAMMABLE GASES Flammable gases, Category 1 or 2	10	50

AIR LIQUIDE BeNeLux EU - en 10/18



Propylene

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 SDS Reference Number: EIGA105-ALBNL

National regulations

Regulatory reference : Ensure all national/local regulations are observed.

15.2. Chemical safety assessment

A CSA has been carried out.

SECTION 16: Other information

Indication of changes

: Revised safety data sheet in accordance with commission regulation (EU) No 453/2010.

Section	Changed item	Comments
	Endocrine disrupting properties	Added
	Supersedes version of	Modified
	Revision date	Modified
	Effect on global warming	Modified
	GWP 100 years	Modified
2.3	Other hazards which do not result in classification	Modified
7	Safe handling of the gas receptacle	Modified
8	Regulatory reference	Added
8	Local name	Added
8	OEL TWA	Added
8	OEL TWA	Added
8.2	Respiratory protection	Modified
9	Particle characteristics	Added
9	Upper explosive limit (UEL)	Added
9	Lower explosive limit (LEL)	Added
9	Partition coefficient n-octanol/water (Log Kow)	Added
9	Density	Added
9	Tci	Modified
9	Partition coefficient n-octanol/water (Log Pow)	Added
11.1	Other information	Added
12.3	Bioaccumulative potential	Added
12.7	Other adverse effects	Modified
15	Seveso Directive : 2012/18/EU (Seveso III)	Modified
16	Abbreviations and acronyms	Modified



Propylene

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 SDS Reference Number: EIGA105-ALBNL

Abbreviations and acronyms

: ATE - Acute Toxicity Estimate.

CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008.

REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.

EINECS - European Inventory of Existing Commercial Chemical Substances.

CAS# - Chemical Abstract Service number.

PPE - Personal Protection Equipment

LC50 - Lethal Concentration to 50 % of a test population.

RMM - Risk Management Measures.

PBT - Persistent, Bioaccumulative and Toxic.

vPvB - Very Persistent and Very Bioaccumulative.

STOT- SE: Specific Target Organ Toxicity - Single Exposure.

CSA - Chemical Safety Assessment.

EN - European Standard.

UN - United Nations.

ADR - Agreement concerning the International Carriage of Dangerous Goods by Road.

IATA - International Air Transport Association.

IMDG code - International Maritime Dangerous Goods.

RID - Regulations concerning the International Carriage of Dangerous Goods by Rail.

WGK - Water Hazard Class.

STOT - RE: Specific Target Organ Toxicity - Repeated Exposure.

UFI: Unique Formula Identifier.

ADN -International Carriage of Dangerous Goods by Inland Waterways.

PROC -Process category

.

ERC - Environmental release category.

PMT - Persistent, Mobile and Toxic.

vPvM - very Persistent and very Mobile.

: Ensure operators understand the flammability hazard.

Classification in accordance with the procedures and calculation methods of Regulation

(EC) 1272/2008 (CLP).

Key literature references and sources of data are maintained in EIGA doc 169: 'Classification and Labelling Guide', downloadable at http://www.Eiga.eu.

Full text of H- and EUH-statements	
Flam. Gas 1A	Flammable gases, Category 1A
Press. Gas (Liq.)	Gases under pressure : Liquefied gas
H220	Extremely flammable gas.
H280	Contains gas under pressure; may explode if heated.

DISCLAIMER OF LIABILITY

Training advice

Further information

: Before using this product in any new process or experiment, a thorough material compatibility and safety study should be carried out.

Details given in this document are believed to be correct at the time of going to press. Whilst proper care has been taken in the preparation of this document, no liability for injury or damage resulting from its use can be accepted.



Propylene

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 SDS Reference Number: EIGA105-ALBNL

Annex to the safety data sheet

This Annex documents the Exposure Scenarios (ESs) related to the identified uses of the registered substance. The ESs detail protective measures for workers and the environment in addition to those described in sections 7, 8, 11, 12 and 13 of the SDS that are required to ensure that the potential exposure to workers and the environment remains within acceptable levels for each of the identified uses.

Table of contents of the Annex

Identified Uses	Es N°	Short title	ERC	PROC	Page
Formulation of mixtures in pressure receptacles	EIGA105-1	Industrial uses, closed contained conditions	ERC2	PROC1	14
Transfilling in pressure receptacles	EIGA105-1	Industrial uses, closed contained conditions	ERC2	PROC8b PROC9	14
Calibration of analysis equipment	EIGA105-1	Industrial uses, closed contained conditions	ERC7	PROC1 PROC2 PROC15	14
Feedstock in chemical processes	EIGA105-1	Industrial uses, closed contained conditions	ERC4 ERC6a ERC6b	PROC1 PROC2 PROC3	14
Refilling of refrigeration equipment	EIGA105-2	Professional use, closed contained conditions	ERC9a ERC9b	PROC8a	17
Fuel gas for welding, cutting, heating, brazing and soldering applications.	EIGA105-2	Professional use, closed contained conditions	ERC9a ERC9b	PROC16	17



Propylene

Annex to the safety data sheet

Reference number: EIGA105-ALBNL
CAS-No.: 115-07-1 Product form: Substance Physical state: Gas

1. EIGA105-1 - Industrial uses, closed contained conditions

1.1. Title section

Industrial uses, closed contained conditions		
ES Ref.: EIGA105-1		
ES Type: Worker - EIGA		
Revision date: 4-4-2018		

	Industrial uses, including product transfers and associated laboratory activities within different closed or contained systems
Assessment method	Qualitative approach used to conclude safe use

1.2. Conditions of use affecting exposure

1.2.1. Control of environmental exposure: Formulation into mixture (ERC2)

C2	Formulation into mixture
----	--------------------------

Product (article) characteristics		
Physical form of product See section 9 of the SDS, No additional information		
Concentration of substance in product	≤ 100 %	

Amount used, frequency and duration of use (or from service life)	
The actual tonnage handled per site is not considered to influence the immissions as such for this scenario as there is practically no release	
Emission Days (days/year)	260

Technical	and or	ganisational	conditions	and	MASSIIRAS
I COIIIICAI	alla ol	garrigational	COHUMICIO	ullu	IIICusuics

Ensure operatives are trained to minimise releases

Conditions and measures related to sewage treatment plant

Wastewater emission controls are not applicable as there is no direct release to wastewater

ı	Conditions and	l maggiirae ra	lated to treatn	nent of waste (including arti	cle waste)
ı	Conditions and	i measures re	lated to treati	nent of waste t	including arti	cie waster

See section 13 of the SDS

Other conditions affecting environmental exposure

No additional information



Propylene

Annex to the safety data sheet

Reference number: EIGA105-ALBNL
CAS-No.: 115-07-1 Product form: Substance Physical state: Gas

1.2.2. Control of worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions, Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition, Transfer of substance or mixture (charging and discharging) at dedicated facilities, Transfer of substance or mixture into small containers (dedicated filling line, including weighing),Use of fuels (PROC1, PROC3, PROC8b, PROC9, PROC16)

PROC1	Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions
PROC3	Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition
PROC8b	Transfer of substance or mixture (charging and discharging) at dedicated facilities
PROC9	Transfer of substance or preparation into small containers (dedicated filling line, including weighing)
PROC16	Use of fuels

Product (article) characteristics	
Physical form of product	See section 9 of the SDS, No additional information
Concentration of substance in product	≤ 100 %

Amount used (or contained in articles), frequency and duration of use/exposure	
The actual tonnage handled per shift is not considered to influence the exposure as such for this scenario. Instead, the combination of the scale of operation and level of containment/automation (as reflected in the technical conditions) is the main determinant of the process-intrinsic emission potential.	
Exposure duration	≤ 8 h/day
Covers frequency up to:	5 days/week

Technical and organisational conditions and measures	
See sections 2 and 7 of the SDS.	
Handle product within a closed system	
Apply a good standard of general or controlled ventilation when maintenance activities are carried out.	
Ensure operatives are trained to minimise exposure	
Ensure supervision is in place to check that the RMMs are in place and are being used correctly and that the OCs are being followed	

Condition	ns and measures related to personal protection, hygiene and healt	h evaluation
See section	n 8 of the SDS.	

Other conditions affecting workers exposure	
Indoor or outdoor use	

1.3. Exposure estimation and reference to its source

No data available



Propylene

Annex to the safety data sheet
Reference number: EIGA105-ALBNL
CAS-No.: 115-07-1 Product form: Substance Physical state: Gas

1.4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the ES

1.4.1. Environment

Guidance - Environment	Check that RMMs and OCs are as described above or of equivalent efficiency
------------------------	--

1.4.2. Health

Guidance - Health	Check that RMMs and OCs are as described above or of equivalent efficiency



Propylene

Annex to the safety data sheet

Reference number: EIGA105-ALBNL
CAS-No.: 115-07-1 Product form: Substance Physical state: Gas

2. EIGA105-2 - Professional uses

2.1. Title section

Professional uses		
ES Ref.: EIGA105-2		
ES Type: Worker - EIGA		
Revision date: 4-4-2018		

Processes, tasks, activities covered	Professional uses, including transfer of product in non-industrial settings
Assessment method	Qualitative approach used to conclude safe use

2.2. Conditions of use affecting exposure

2.2.1. Control of environmental exposure: Widespread use of functional fluid (outdoor) (ERC9b)

ERC9b	Widespread use of functional fluid (outdoor)
-------	--

Product (article) characteristics	
Physical form of product	See section 9 of the SDS, No additional information
Concentration of substance in product	≤ 100 %

Amount used, frequency and duration of use (or from service life)	
The actual tonnage handled per site is not considered to influence the immissions as such for this scenario as there is practically no release	
Emission Days (days/year)	260

Technical and organisational conditions and measures	

Ensure operatives are trained to minimise releases

Conditions and measures related to sewage treatment plant	
Wastewater emission controls are not applicable as	
there is no direct release to wastewater	

Conditions and measures related to treatment of waste (including article waste)	
See section 13 of the SDS	

Other conditions affecting environmental exposure	
No additional information	

2.2.2. Control of worker exposure: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities, Use of fuels (PROC8a, PROC16)

PROC8a	Transfer of substance or mixture (charging and discharging) at non-dedicated facilities
PROC16	Use of fuels

Product (article) characteristics	
Physical form of product	See section 9 of the SDS, No additional information



Propylene

Annex to the safety data sheet
Reference number: EIGA105-ALBNL
CAS-No.: 115-07-1 Product form: Substance Physical state: Gas

Product (article) characteristics	
Concentration of substance in product	≤ 100 %

Amount used (or contained in articles), frequency and duration of use/exposure	
The actual tonnage handled per shift is not considered to influence the exposure as such for this scenario. Instead, the combination of the scale of operation and level of containment/automation (as reflected in the technical conditions) is the main determinant of the process-intrinsic emission potential.	
Exposure duration	≤ 8 h/day
Covers frequency up to:	5 days/week

chnical and organisational conditions and measures	
See sections 2 and 7 of the SDS.	
Handle product within a closed system	
Apply a good standard of general or controlled ventilation when maintenance activities are carried out.	
Ensure operatives are trained to minimise exposure	
Ensure supervision is in place to check that the RMMs are in place and are being used correctly and that the OCs are being followed	

Conditions and measures related to personal protection, hygiene and health evaluation		
See section 8 of the SDS.		

Other conditions affecting workers exposure	
Outdoor use	

2.3. Exposure estimation and reference to its source

No data available

2.4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the ES

2.4.1. Environment

Guidance - Environment	Check that RMMs and OCs are as described above or of equivalent efficiency
------------------------	--

2.4.2. Health

Guidance - Health	Check that RMMs and OCs are as described above or of equivalent efficiency

End of document