

Safety Data Sheet

According to Regulation (EC) No 1907/2006, Annex II,

Amended by COMMISSION REGULATION (EU) 2015/830,

According to REGULATION (EC) No 1272/2008

Propylene

Version 1.0

Issue date: 30-08-2018

Revision date: 30-08-2018 SDS Record Number: CSSS-TCO-010-128804

Section 1 Identification of the substance/mixture and of the company/undertaking

	1	.1	l P	'n	0	d	u	C	ti	d	е	n	ti	fi	е	r:
--	---	----	-----	----	---	---	---	---	----	---	---	---	----	----	---	----

Identification on the label/Trade name: Propylene
Additional identification: Propene

Identification of the product: CAS#115-07-1 EC#204-062-1

Index Number: 601-011-00-9
REACH registration No.: Not available

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

1.2.1 Identified uses:

Welding.

1.2.2 Uses advised against:

No uses advised against are identified.

1.3 Details of the supplier of the safety data sheet:

Supplier(Only representative):

Supplier(Manufacturer): NINGBO FREE TRADE ZONE M & W INTERNATIONAL TRADING CO.,LTD

Address: Room 515 Hebang building B, NO.933 TianTong North Road, Ningbo, China.

Contact person(E-mail):

Telephone: +86-574-83083229 Fax: +86-574-83083129

1.4 Emergency telephone Number:

+86-574-83083229

Available outside office hours? YES NO X

Section 2 Hazards Identification

2.1 Classification of the substance or mixture:

2.1.1 Classification:

The substance is classified as following according to REGULATION (EC) No 1272/2008:

REGULATION (EC) No 1272/2008						
Hazard classes/Hazard categories	Hazard statement					
Press. Gas	H280					
Flam. Gas 1	H220					

For full text of H- phrases: see section 2.2.

2.2 label elements:

Hazard Pictograms:



Product name: Propylene SDS EU
Version #: 1.0 Issue date: 30-08-2018. Revision date: 30-08-2018. 1 / 7

Signal Word(S): Danger

H220: Extremely flammable gas **Hazard Statement:**

H280: Contains gas under pressure; may explode if heated

Precautionary statement: P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

P377: Leaking gas fire: Do not extinguish, unless leak can be stopped safely.

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

P403: Store in a well-ventilated place.

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

2.3 Other hazards:

The substance is not PBT / vPvB.

Section 3 Composition/information on ingredients

Substance/Mixture:

Substance

Ingredient(s):

Chemical Name	Registration No.	CAS No.	EC No.	Concentration
propene	N/A	115-07-1	204-062-1	100%

Section 4 First aid measures

4.1 Description of first aid measures:

In all cases of doubt, or when symptoms persist, seek medical attention.

4.1.1 In case of inhalation:

Move exposed person to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

4.1.2 In case of skin contact:

Extremely cold material. Can cause burns similar to frostbite. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Obtain medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

4.1.3 In case of eyes contact:

Extremely cold material. Can cause burns similar to frostbite. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.

4.1.4 In case of ingestion:

As this product is a gas, refer to the inhalation section.

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

The product is not classified as harmful to human health effect.

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

If skin irritation or rash occurs, get medical advice/attention.

Section 5 Firefighting measures

5.1 Extinguishing media:

Product name: Propylene Revision date: 30-08-2018.

Version #: 1.0 Issue date: 30-08-2018. Suitable extinguishing media: Use an extinguishing agent suitable for the surrounding fire.

Not available.

Unsuitable extinguishing media:

5.2 Special hazards arising from the

substance or mixture

Contains gas under pressure. Extremely flammable gas. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a

subsequent explosion. Decomposition products may include the following

materials: carbon dioxide and carbon monoxide.

5.3 Advice for firefighters: Self-contained breathing apparatus with full-face mask and full protective clothing

(standard wear).

Section 6 Accidental release measures

6.1.1 For non-emergency personnel:

6.1 Personal precautions, protective equipment and emergency procedures:

Accidental releases pose a serious fire or explosion hazard. Immediately contact emergency personnel. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing gas. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on

appropriate personal protective equipment

Wear an appropriate NIOSH/MSHA approved respirator if vapor is generated. 6.1.2 For emergency responders:

Ensure emergency procedures to deal with accidental gas releases are in place to 6.2 Environmental Precautions:

> avoid contamination of the environment. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and material for Containment Immediately contact emergency personnel. Stop leak if without risk. Use

and Cleaning up:

spark-proof tools and explosion-proof equipment.

6.4 Reference to other sections: See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

Section 7 Handling and storage

7.1 Precautions for safe handling:

7.1.1 Protective measures:

Put on appropriate personal protective equipment. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Contains gas under pressure. Avoid contact with eyes, skin and clothing. Avoid breathing gas. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Empty containers retain product residue and can be hazardous. Do not puncture or incinerate container.

7.1.2 Advice on general occupational hygiene:

7.2 Conditions for safe storage, including any incompatibilities:

Do not eat, drink and smoke in work areas. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas. Store in accordance with local regulations. Store in a segregated and approved area. Store in a dry, cool and well-ventilated area, away from incompatible materials. Eliminate all ignition sources. Keep container tightly closed and sealed until ready for use. Packaging materials: Recommended: Steel. Stainless steel. Aluminium.

7.3 Specific end use(s): Not applicable.

Product name: Propylene SDS EU Version #: 1.0 Revision date: 30-08-2018.

Issue date: 30-08-2018.

Section 8 Exposure Controls/Personal Protection

8.1 Control parameters:

8.1.1 Occupational exposure limits:

			Occupational E	Exposure Limit	Occupational Exposure Limit Value			
				Value (8-hour reference period)		(15-minute reference period)		
Country	Substance	EINECS No.	CAS No.	ppm	mg/ m3	ppm	mg/ m3	Note
Ireland	Propylene	204-062-1	115-07-1	-	-	-	-	Asphx.

8.1.2 Additional exposure limits under

Not available.

the conditions of use:

8.1.3 DNEL/DMEL and PNEC-Values: Not available.

8.2 Exposure controls:

8.2.1Appropriate engineering controls: Handle in accordance with good industrial hygiene and safety practice. Wash

hands before breaks and at the end of workday.

8.2.2 Individual protection measures, such as personal protective equipment:

Eye/face protection: Safety eyewear complying with an approved standard should be used when a risk

assessment indicates this is necessary to avoid exposure to liquid splashes, mists

or dusts. Recommended: full-face mask.

Hand protection: Chemical-resistant, impervious gloves complying with an approved standard

should be worn at all times when handling chemical products if a risk assessment

indicates this is necessary. 4-8 hours (breakthrough time): Insulated gloves

suitable for low temperatures; neoprene, nitrile rubber.

Body protection: Personal protective equipment for the body should be selected based on the task

being performed and the risks involved and should be approved by a specialist

before handling this product.

Respiratory protection: Use a properly fitted, air-purifying or air-fed respirator complying with an approved

standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Recommended:

SDS EU

self-contained breathing apparatus (SCBA).

Thermal hazards: Wear suitable protective clothing to prevent heat.

8.2.3 Environmental exposure controls: Avoid discharge into the environment. According to local regulations, Federal and

official regulations.

Section 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Appearance: Liquid

Colour: Colorless

Odour: Odorless

Odour threshold: Not available

pH: Not available

Melting point/range (°C): -185 °C

Boiling point/range (°C): -48 °C

Flash point (°C):

Evaporation rate:

Not available

Not available

Flammability limit - lower (%):

Not available

Flammability (solid, gas): Extremely flammable

Product name: Propylene

Version #: 1.0 Issue date: 30-08-2018. Revision date: 30-08-2018. 4 / 7

Ignition temperature (°C): Not available **Upper/lower explosive limits:** 11 %/2 % Vapour pressure (20°C): Not available Vapour density: Not available **Relative Density:** Not available Bulk density (kg/m³): Not available Water solubility (g/l): 200 mg/L (25 °C) 1.77 (20 °C) n-Octanol/Water (log Po/w):

Auto-ignition temperature: 455 °C **Decomposition temperature:** Not available Viscosity, dynamic (mPa.s): Not available **Explosive properties:** Not available Not available Oxidising properties:

Molecular Formula: C₃H₆ **Molecular Weight:** 42.08

9.2. Other information:

Fat solubility(solvent-oil to be specified) Not available

etc:

Not available Surface tension: Dissociation constant in water(pKa): Not available **Oxidation-reduction Potential:** Not available

Section 10 Stability and reactivity

10.1 Reactivity: The substance is stable under normal storage and handling conditions.

10.2 Chemical stability: Stable at room temperature in closed containers under normal storage and

handling conditions.

10.3 Possibility of hazardous reactions: No dangerous reactions known.

10.4 Conditions to avoid: Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut,

weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

10.5 Incompatible materials: Oxidizing agents, water, nitrogen oxides (NO, NO2 etc.)

10.6 Hazardous decomposition products: Carbon dioxide and carbon monoxide.

Section 11 Toxicological information

11.1 Information on toxicological effects:

Acute toxicity:

LD50(Oral, Rat): Not available LD50(Dermal, Rabbit): Not available LC50(Inhalation, Rat): Not available Skin corrosion/Irritation: Not classified Serious eye damage/irritation: Not classified Respiratory or skin sensitization: Not classified Germ cell mutagenicity: Not classified Carcinogenicity: Not classified Reproductive toxicity: Not classified STOT- single exposure: Not classified Not classified STOT-repeated exposure:

Product name: Propylene

SDS EU Version #: 1.0 Issue date: 30-08-2018. Revision date: 30-08-2018.

Section 12 Ecological information

12.1 Toxicity:

Acute (short-term) toxicity:

LC50(96h, Fish): 51.7 mg/L LC50(48h, Crustacea): 28.2 mg/L EC50(96h, Algae/aquatic plants): 12.1 mg/L

Chronic (long-term) toxicity:

NOEC(Fish): Not available NOEC(Crustacea): Not available EC50(Algae/aquatic plants): Not available

12.2 Persistence and degradability: Readily biodegradable.

12.3 Bioaccumulative potential: Not available. 12.4 Mobility in soil: Not available.

12.5 Results of PBT and vPvB assessment: The substance is not PBT / vPvB.

12.6 Other adverse effects: Not available.

Section 13 Disposal considerations

13.1 Waste treatment methods:

Dispose of in accordance with all applicable local and national regulations. Use recovery/recycling where feasible, otherwise incineration is the recommended method of disposal. Empty containers may contain hazardous residues. Do not cut, puncture or weld on or near to the container. Labels should not be removed from containers until they have been cleaned. Contaminated containers must not be treated as household waste. Containers should be cleaned by appropriate methods and then re-used or disposed of by landfill or incineration as appropriate.

Do not incinerate closed containers.

Section 14 Transport information

	Land transport (ADR/RID)	Inland waterways (ADN)	Sea transport (IMDG)	Air transport (ICAO/IATA)
UN number	1077	1077	1077	1077
UN Proper shipping name	PROPYLENE	PROPYLENE	PROPYLENE	PROPYLENE
Transport hazard Class(es)	2.1	2.1	2.1	2.1
Packing group	-	-	-	-
Environmental hazards	No	No	No	No
Special precautions for user	See section 2.2	See section 2.2	See section 2.2	See section 2.2
Transport in bulk according to Annex II of Marpol and the IBC Code	-	-	-	-

SDS EU Revision date: 30-08-2018. Version #: 1.0 Issue date: 30-08-2018.

Section 15 Regulatory information

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

Relevant information regarding authorization: Not applicable. Relevant information regarding restriction: Not applicable.

Other EU regulations: Employment restrictions concerning young person must be observed. For

use only by technically qualified individuals.

Other National regulations: Not applicable

15.2 Chemical safety assessment YES NO Χ

Section 16 Other information

16.1 Indication of changes:

Version 1.0 Amended by (EU) 2015/830

16.2 Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

RID: Regulation for rail International transportation of Dangerous goods

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

IMDG: Code international maritime dangerous goods code

ICAO: International Civil Aviation Organization IATA: International Air Transport Association

LC50: median lethal concentration

EC50: The effective concentration of substance that causes 50% of the maximum response.

NOEC: No Observed Effect Concentration

DNEL: derived no-effect level

PNEC: predicted no-effect concentration

16.3 Key literature references and sources for data

ECHA Registered substances data

16.4 Classification and procedure used to derive the classification for mixtures according to Regulation (EC)

1272/2008 [CLP]

Classification according to Regulation (E	C) No. 1272/2008	Classification procedure		
Press. Gas	H280	On basis of test data		
Flam. Gas 1	H220	On basis of test data		

16.5 Relevant H-statements (number and full text):

H220: Extremely flammable gas

H280: Contains gas under pressure; may explode if heated

16.6 Training instructions:

Not applicable.

16.7 Further information:

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

16.8 Notice to reader:

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

Author: Hangzhou REACH Technology Group Co., Ltd. Website: www.cirs-group.com Tel:0571-87206555 Email:info@cirs-group.com

SDS EU Version #: 1.0 Issue date: 30-08-2018. Revision date: 30-08-2018.