

SAFETY DATA SHEET

Section 1 Identification

Product Name: Propylene

Product Use: Use as gas fuel for welding

UN Proper Shipping Name: Propylene

Supplier by: Ningbo Koman's Refrigeration Industry Co.,Ltd.

No.20 Yongdinghe Road, chemical industry park, Xiapu, Beilun, Ningbo.

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Section 2 Hazard Identification

Health Hazards	Environment	Hazards
Acute toxicity: untested	UNKNOWN	Flammable gases: Category 1 Gases under pressure : Liquefied gas
Skin corrosion / irritation: untested		
Serious eye damage / irritation: untested		
Respiratory or skin sensitization: untested		
Carcinogenicity: untested		
Reproductive toxicity: untested		
Germ cell mutagenicity: untested		
Specific target organ toxicity: untested		
Inhalation hazard: untested		

GHS label:**SYMBOLES:****Signal Words:** Dangerous**Hazard Statements:**

H220 Extremely flammable gas

H280 Contains gas under pressure, may explode if heated

Precautionary Statements:

P210 keep away from heat /sparks/open flames/hot surfaces. 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.

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

Section 3 Composition/Information on Ingredients

Hazardous components	CAS No	Mass Percentage
Propylene	115-07-01	≥95

Section 4 First-aid Measures**General Advice:**

Provide this MSDS for the doctor.

Inhalation:

Immediately remove to fresh air. If the breathing is stopped, artificial respiration and go to hospital for medical treatment.

Skin:

Wash the skin by soap. Go to see the doctor immediately.

Eyes:

Wash eyes for prevention.

Intake:

Do not induce vomiting. Never give anything to an unconscious person. Rinse mouth with water. Consult a doctor.

Most important symptoms and effects, which is acute and delayed:

Dizziness, headache, decreased function of the central nervous system.

Section 5 Fire-fighting Measures

Hazardous Combustion Products:

Carbon monoxide, carbon dioxide.

Extinguishing Media:

Use water spray, alcohol-resistant foam, dry powder or carbon dioxide.

The equipment of fire fighter:

Firefighters should wear self-contained breathing apparatus.

Section 6 Accidental Release Measures

Protection:

Refer to the Section 8 using suitable protection equipments. Avoid to indraft vapor and gas, wipe out all fire source, remove people to safety place. Prevent gas reach to explosion concentration and make the environmental protection.

Environmental prevention measures:

Ensure safety and take action to stop the gas leakage. Do not let the extinguishing media go into the sewer.

Boycott and cleaning methods and materials:

According to local regulation, clean up the residual gas through anti-electric vacuum cleaner. (Refer to Section 13)

Section 7 Handling and Storage

Disposal Procedure:

Avoid exposure: needed to be guided before use. Avoid inhalation of vapor and smoke. Keep away from sources of ignition. No smoking. Take measures to prevent static.

Storage Procedures:

Store in a cool, ventilated dedicated warehouse. Keep them far away from fire and heat source. Keep it under pressure. It is sensitive to air and light. Vibration or heat may cause explosion, heating may explode. Inflatable handling and storage.

Section 8 Exposure Controls/Personal Protection

Engineer Controls:

Refer to industrial health and safety regulation, wash hands after work.

Inhalation Protection:

Using US or ABEKS (EN14387) gas mask as spare of engineer controls if gas mask is required. If gas mask is the only way of pretection, wear air respirator according to governmental standard of material and parts like NIOSH(US) or CEN(EU).

Body Protection:

The choice of anti chemical, fireproof and anti-static working clothes, protection equipments depends on the gas concentration in the workplace.

Eye Protection:

Mask and glasses should follow the standard like NIOSH(US) or EN 166(EU).

Hands Protection:

When dealing with the sample, the gloves should be checked carefully before use and take off through right way to avoid contacting with the skin. Carefully dispose used gloves and dry the hands. The gloves should follow the standard of EU89/686/EEC and EN376.

Health Protection:

Refer to industrial health and safety regulation, comply with general protection method, keep them far away from the food, drink and feed. Take off the clothes after work and have a shower. Keep all used clothes together and wash them for next use. Wash hand after work and avoid to contact with skin.

Section 9 Physical and Chemical Properties

Physical Properties:	Gas
Color:	Colorless
Odor:	Slightly sweet
Molecular Weight:	42.08g/mol
pH:	No Data.
Boiling Point:	-47.4°C
Melting/Freezing Point	-191°C
Flash Point:	-108°C
Burning Point:	No Data
Fire Temperature:	455°C
Volatility:	Gas under the normal atmospheric temperature, it is highly volatile

Odor Threshold:	No Data
Solubility in Water:	Slightly soluble in water
Decomposition temperature:	No Data
Partition coefficient: n-octanol/water:	No Data
Relative Density(Water=1)	0.5
Relative Vapor Density(Air=1)	1.48
Explosion limit	Upper Explosive Limit:11.7% (V) Lower Explosive Limit:2.0% (V)
Vapour pressure (kPa):	602.88 kPa
Critical pressure(MPa)	4.55 MPa

Section 10 Stability and Reactivity

Stability: Unstable.

Conditions to avoid:

Fire and heat, extreme temperature and sunshine

Forbidden mixture materials: Strong oxidant and strong acid.

Incompatible materials: Strong oxidant and strong acid.

Hazardous decomposition products: No Data

Hazardous polymerization: Polymerization can occur.

Section 11 Toxicological information

Acute oral toxicity LD50: No data

Acute inhalation toxicity LC50: No data

Acute skin toxicity LD50: No data

Eye damage/Eye irritation: No data

Respiratory or skin sensitization: No data

Potential Health Effects:

Inhalation - May be harmful if inhaled. May cause respiratory irritation.

Intake - Harmful if swallowed.

Skin - May be harmful if absorbed through skin. Cause skin irritation.

Eyes - May cause eye irritation

Carcinogenicity: IARC:3-Class 3. Not classified

Section 12 Ecological Information

Biodegradability: No Data

Aquatic toxicity: No Data

Bioaccumulate potential: No data

Section 13 Disposal Consideration

Product: Dispose in which equipped with an afterburner and the scrubbing equipment chemical incinerator combustion, particularly pay attention when ignite, because it is a highly flammable substance.

Contaminated packaging: Dispose as unused product

Section 14 Transport Information

Sea transportation IMDG (2012 Edition)

Sea transportation classification: Class 2.1 flammable gases

UN No.: 1077

Package classification: —

Marine pollutant: Not

UN Proper Shipping Name: Propylene

Air ICAO-TI and IATA-DGR 55TH:

UN No.: 1077

Package classification: —

Marine pollutant: Not

UN Proper Shipping Name: Propylene

Section 15 Regulatory Information

Chinese Chemicals Safety Management Regulation: 《National Regulation of Dangerous Chemical Products Management》、《The safe use of chemicals in workplace》 etc, there are relative provisions against safety use、 production、 storage、 transportation、 loading and unloading of dangerous chemicals; 《General rule for classification and hazard communication of chemicals》 (GB13690-2009); This product is classified as flammable gas class 2.1,CN No.21018,according to 《List of dangerous goods》 (GB12268-2012).

Section 16 Other Information

This information is to the best of our knowledge and is just used for health, safety and environmental purpose. Do not use as any guarantee. The operators should be trained if possible.

Edit Date: May 20, 2023

Edit Institution: Ningbo Koman's Refrigeration Industry Co.,Ltd.

Standard: Global chemical classification and labeling (5th Edition, GHS). Appendix 4: safety data guides.