

Safety Data Sheet

Product name: Propane

CAS No.: 74-98-6

Prepared in accordance with GB/T 16483, GB/T 17519

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

>Product identifier

- Product name: Propane
- CBnumber: CB2194886
- CAS: 74-98-6
- EINECS Number: 200-827-9
- Synonyms: Propane,LPG

>Relevant identified uses of the substance or mixture and uses advised against

- Relevant identified uses: For R&D use only. Not for medicinal, household or other use.
- Uses advised against: none

>Company Identification

- Company: Linyi Tuohui New Materials Co., Ltd.
- Address: Room A6159, 6F, Building 1, Linyi Software Park, No.6 Yihe Road, Zhimadun Subdistrict, Yishui New Area, Linyi City, Shandong Province, China
- Telephone: +86 176 6460 5089 (Manager Niu) / +86 130 4664 1786 (Manager Li)
- Email: nathan@tuohui-chem.com
- WhatsApp: +86 176 6460 5089
- Emergency telephone: +86 176 6460 5089

SECTION 2: Hazards identification

>GHS Label elements, including precautionary statements

- Symbol(GHS)



- Signal wordWarning

Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 IF ON SKIN: wash with plenty of soap and water.

P333+P313 IF SKIN irritation or rash occurs: Get medical advice/attention.

Hazard statements

H317 May cause an allergic skin reaction

H412 Harmful to aquatic life with long lasting effects

SECTION 3: Composition/information on ingredients

>Substance

- Product name: Propane
- Synonyms: Propane,LPG
- CAS: 74-98-6
- EC number: 200-827-9
- MF: C₃H₈
- MW: 44.1

SECTION 4: First aid measures

>4.1 Description of first-aid measures

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

In case of skin contact

Wash off with soap and plenty of water.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

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

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11

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

No data available

SECTION 5: Firefighting measures

>5.1 Extinguishing media

Suitable extinguishing media

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

>5.2 Special hazards arising from the substance or mixture

Nature of decomposition products not known.

>5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

>5.4 Further information

No data available

>NFPA 704

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SECTION 6: Accidental release measures

>6.1 Personal precautions, protective equipment and emergency procedures

Avoid breathing vapors, mist or gas.

For personal protection see section 8.

>6.2 Environmental precautions

No special environmental precautions required.

>6.3 Methods and materials for containment and cleaning up

Keep in suitable, closed containers for disposal.

>6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

>7.1 Precautions for safe handling

For precautions see section 2.2.

>7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Storage stability Recommended storage temperature

-20 °C

Storage class

Storage class (TRGS 510): 12: Non Combustible Liquids

>7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

>8.1 Control parameters

Ingredients with workplace control parameters

>8.2 Exposure controls

Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

Body Protection

Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

No special environmental precautions required.

SECTION 9: Physical and chemical properties

>Information on basic physicochemical properties

- a) Physical state liquid
- b) Color No data available
- c) Odor No data available
- d) Melting point/freezing point No data available
- e) Initial boiling point and boiling range -42.1 °C (lit.)
- f) Flammability (solid, gas) No data available
- g) Upper/lower flammability or explosive limits 9.5%
- h) Flash point -104 °C
- i) Autoignition temperature No data available
- j) Decomposition temperature No data available
- k) pH No data available
- l) Viscosity Viscosity, kinematic: No data available
Viscosity, dynamic: No data available
- m) Water solubility 62.61 mg/L (25 °C)
- n) Partition coefficient n-octanol/water No data available
- o) Vapor pressure 190 psi (37.7 °C)
- p) Density 0.564 g/mL at 20 °C (lit.)
- Relative density 0.564 g/mL at 20 °C (lit.)
- q) Relative vapor density 1.5 (vs air)
- r) Particle characteristics No data available
- s) Explosive properties Not classified as explosive.
- t) Oxidizing properties none
- Henry's Law Constant 0.706 at 25 °C (Hine and Mookerjee, 1975)
- Dielectric constant 1.6 (Ambient)

>9.2 Other safety information

No data available

SECTION 10: Stability and reactivity

>10.1 Reactivity

No data available

>10.2 Chemical stability

Stable under recommended storage conditions.

>10.3 Possibility of hazardous reactions

>10.4 Conditions to avoid

>10.5 Incompatible materials

>10.6 Hazardous decomposition products

In the event of fire: see section 5

SECTION 11: Toxicological information

>11.1 Information on toxicological effects

Mixture Acute toxicity

Oral: No data available

Inhalation: No data available

Dermal: No data available

Skin corrosion/irritation

Classified based on available data. For more details, see section 2

Serious eye damage/eye irritation

Respiratory or skin sensitization

Germ cell mutagenicity

Carcinogenicity

Reproductive toxicity

Specific target organ toxicity - single exposure

Specific target organ toxicity - repeated exposure

Aspiration hazard

>11.2 Additional Information

Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

SECTION 12: Ecological information

>12.1 Toxicity

Mixture

No data available

>12.2 Persistence and degradability

>12.3 Bioaccumulative potential

>12.4 Mobility in soil

>12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

>12.6 Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission

Delegated regulation (EU) 2017/2100 or Commission

Regulation (EU) 2018/605 at levels of 0.1% or higher.

>12.7 Other adverse effects

Components

SECTION 13: Disposal considerations

>13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information

>14.1 UN number

ADR/RID: -

IMDG: -

IATA: -

>14.2 UN proper shipping name

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

>14.3 Transport hazard class(es)

>14.4 Packaging group

>14.5 Environmental hazards

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

>14.6 Special precautions for user

No data available

Further information: Not classified as dangerous in the meaning of transport regulations.

SECTION 15: Regulatory information

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

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

>15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

SECTION 16: Other information

>Full text of other abbreviations

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

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

AIIC - Australian Inventory of Industrial Chemicals

ASTM - American Society for the Testing of Materials

bw - Body weight

CMR - Carcinogen, Mutagen or Reproductive Toxicant

DIN - Standard of the German Institute for Standardisation

DSL - Domestic Substances List (Canada)

EC_x - Concentration associated with x% response

EL_x - Loading rate associated with x% response

EmS -Emergency Schedule
ENCS - Existing and New Chemical Substances (Japan)
ErCx -Concentration associated with x% growth rate response
GHS - Globally HarmonizedSystem
GLP - Good Laboratory Practice
IARC - International Agency for Research onCancer
IATA - International Air Transport Association
IBC - International Code for theConstruction and Equipment of Ships carrying Dangerous Chemicals in Bulk
IC50 - Half maximal inhibitory concentration
ICAO - International Civil Aviation Organization
IECSC - Inventory of Existing Chemical Substances in China
IMDG - InternationalMaritime Dangerous Goods
IMO - International Maritime Organization
ISHL - IndustrialSafety and Health Law (Japan)
ISO - International Organisation for Standardization
KECI - Korea Existing Chemicals Inventory
LC50 - Lethal Concentration to 50 % of a test population
LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose)
MARPOL - International Convention for the Prevention of Pollution from Ships
n.o.s. -Not Otherwise Specified
NO(A)EC - No Observed (Adverse) Effect Concentration
NO(A)EL - No Observed (Adverse) Effect Level
NOELR - No Observable Effect LoadingRate
NZIoC - New Zealand Inventory of Chemicals
OECD - Organization for EconomicCo-operation and Development
OPPTS - Office of Chemical Safety and PollutionPrevention
PBT - Persistent, Bioaccumulative and Toxic substance
PICCS - PhilippinesInventory of Chemicals and Chemical Substances
(Q)SAR - (Quantitative) StructureActivity Relationship
REACH - Regulation (EC) No 1907/2006 of the EuropeanParliament and of the Council concerning the Registration, Evaluation, Authorisation andRestriction of Chemicals
RID - Regulations concerning the International Carriage ofDangerous Goods by Rail
SADT - Self-Accelerating Decomposition Temperature
SDS -Safety Data Sheet
TCSI - Taiwan Chemical Substance Inventory
TECI - ThailandExisting Chemicals Inventory
TSCA - Toxic Substances Control Act (United States)
UN - United Nations

UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods

vPvB - Very Persistent and Very Bioaccumulative