

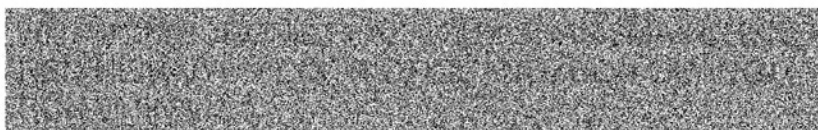
SAFETY DATA SHEET

Product Name : Green Gas

Applicant :



Address :



Signed by Shanghai ICTS Group

Written by : Carmen Chen

Date: 26th Oct. 2015

SAFETY DATA SHEET

Section 1 – Chemical Product and Company Identification

Product name: Green Gas

Manufacturer:

Address:

Post Code:

Tel:

Email:

Information in case of emergency

Contact:

Tel:

Mobile phone:

Email:

Section 2 – Hazards Identification

Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008[EU-GHS/CLP]

Flam. Gas 1 H220

Liquefied gas H280

Label elements

Labelling according to Regulation (EC) No 1272/2008:

Hazard pictograms:



Signal word:

Danger

Hazard statement:

H220 - Extremely flammable gas

H280 - Contains gas under pressure; may explode if the temperature reached 80°C.

Precautionary statement(s)

Prevention:	P202 Do not handle until all safety precautions have been read and understood P210 Keep away from Heat, Open flames, Sparks, Hot surfaces. - No smoking P271 Use only outdoors or in a well-ventilated place. P377 Leaking gas fire: Do not extinguish, unless leak can be stopped safely P381 Eliminate all ignition sources if safe to do so
Response:	P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308 + P313 IF exposed or concerned: Get medical advice/attention.
Storage:	P411 Store at temperatures not exceeding 45°C.
Other hazards:	Not applicable.

Section 3 – Composition/Information on Ingredient

Chemical name	CAS No.
Propane	74-98-6

Section 4 – First Aid Measures

Skin contact:	The liquid may cause frostbite. For exposure to liquid, immediately warm frostbite area with warm water. Water temperature should be tolerable to normal skin. Maintain skin warming for at least 15 minutes. In case of massive exposure, remove clothing while showering with warm water. Seek medical evaluation and treatment as soon as possible.
Eyes contact:	Wash open eyes immediately, abundantly and consult a doctor if needed.
Inhalation:	Remove from exposure and move to fresh air immediately. Use oxygen if available. Get medical aid.
Ingestion:	Ingestion is not considered a potential route of exposure.

Section 5 – Fire Fighting Measures

Suitable Extinguishing Media:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards arising from the chemical:	Thermal decomposition or burning may produce carbon monoxide, carbon dioxide, and hydrogen. The welding and cutting process may form reaction products such as carbon monoxide and carbon dioxide.
Special protective equipment for firefighters:	Firefighters must wear fire resistant protective equipment. Wear self-contained breathing apparatus.

Section 6 – Accidental Release Measures

For guidance on selection of personal protective equipment see Chapter 8 of this Material Safety Data Sheet. See Chapter 13 for information on disposal. Observe the relevant local and international regulations.

Personal precautions, protective equipment and emergency procedures:	Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
Environmental precautions:	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
Methods and materials for containment and cleaning up:	Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

Section 7 – Handling and Storage

Handling:	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Storage:	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section 8 – Exposure Controls, Personal Protection

Maximum admissible concentration

Propane (74-98-6)

USA OSHA OSHA PEL (TWA) (mg/m³) 1800 mg/m³

USA OSHA OSHA PEL (TWA) (ppm) 1000 ppm

Monitoring Method: No data.

Engineering Control: Supply with sufficient partial air exhaust.

Respiratory Protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Eyes Protection: Face shield and safety glasses 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.

Body Protection: Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hands Protection: Wear impervious gloves resistance to solvents

Control of environmental exposure: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Section 9 – Physical and Chemical Properties

Appearance	Colorless liquid.
Odor	No odor.
Odor threshold	Not available.
pH	Not available.
Melting point	-187.6°C .
freezing point	Not available.
Initial boiling point and boiling range	-42.09°C.
Flash point	-104°C.
Evaporation rate	Not available.
Flammability	Not available.
Upper explosive limit %(V/V):	9.5.
Lower explosive limit %(V/V):	2.1.
Vapor pressure:	Not available.
Relative Vapor density(Air=1):	1.56.
Relative density(Water=1):	0.58(-44.5°C).
Solubility(ies):	Slightly soluble in water, soluble in alcohol, ether.
Partition coefficient: n-octanol/water:	Not available.
Auto-ignition temperature:	Not available.
Decomposition temperature:	Not available.
Viscosity:	Not available.
Volatile organic compounds(VOC)	Not available.

Section 10 – Stability and Reactivity

Stability:	Stable under normal temperature and pressure.
Distribution of Ban:	Oxidizing agents, lithium, halogens.
Conditions to Avoid:	Contact with incompatible materials.
Hazardous Polymerization:	No data.
Hazardous Decomposition Products:	Thermal decomposition or burning may produce carbon monoxide, carbon dioxide, and hydrogen.

Section 11 – Toxicological Information

Acute Toxicity:	No data available.
Sub-acute and Chronic Toxicity:	No known significant effects or critical hazards.
Skin corrosion/irritation:	No known significant effects or critical hazards.
Sensitization:	No known significant effects or critical hazards.
Germ cell mutagenicity:	No known significant effects or critical hazards.
Carcinogenicity:	No known significant effects or critical hazards.
Others:	No data.

Section 12 – Ecological Information

Ecotoxicity:	No data available.
Persistence and degradability Biodegradability:	No known significant effects or critical hazards.
Bioaccumulative potential Bioaccumulation :	No known significant effects or critical hazards.
Results of PBT and vPvB assessment:	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.
Other harmful effects:	No.

Section 13 – Disposal Considerations

Waste treatment methods	Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable.
Disposal notice:	Disposal area must comply with the environment and national safety standard.

Section 14 – Transport Information

UN Number:
ADR, IMDG, IATA UN 1078
UN proper shipping name:
ADR, IMDG, IATA Refrigerant gas, n.o.s
Transport hazard class(es):
ADR, IMDG, IATA 2.1
Environmental hazards: No.
Special precautions for user: Not applicable.

Section 15 – Regulatory Information

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

CAS No.	USA TSCA	EU EINECS	Australia AICS	Korea ECL	China IECSC	Canada DSL
74-98-6	Listed	Listed	Listed	Listed	Listed	Listed
74-84-0	Listed	Listed	Listed	Listed	Listed	Listed

Remark: The above-mentioned search results are based on the Non-Confidential Inventory.

Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.

Section 16 – Additional Information

SDS Creation Date: 26th Oct. 2015

This SDS was prepared sincerely on the basis of the information we could obtained, however, any warranty shall not be given regarding the data contained and the assessment of hazards and toxicity. Prior to use, please investigate not only the hazards and toxicity information but also the laws and regulations of the organization, area and country where the products are to be used, which shall be given the first priority. Products are supposed to be used promptly after purchase in consideration of safety. Some new information or amendments may be added afterwards. If the products are to be used far behind the expected time of use or you have any questions, please feel free to contact us. The stated cautions are for normal handling only. In case of special handling, sufficient care should be taken, in addition to the safety measures suitable for the situation. All chemical products should be treated with the recognition of "having unknown hazards and toxicity", which differ greatly depending on the conditions and handling when in use and/or the conditions and duration of storage. The products must be handled only by those who are familiar with specialized knowledge and have experience or under the guidance of those specialists throughout use from opening to storage and disposal. Safe usage conditions shall be set up on each user's own responsibility.

PRODUCT PHOTO



END OF REPORT