

HANGZHOU QIQI I&E CO., LTD

SECTION 1: IDENTIFICATION

Product name: 1-Hexene

CAS NO: 592-41-6

Company: HANGZHOU QIQI I&E CO., LTD

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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

PHYSICAL HAZARDS

Flammable liquids Category 2

HEALTH HAZARDS

Specific target organ toxicity

- Single exposure [Category 3] Respiratory tract irritation, Narcotic effects

Aspiration hazard Category 1

ENVIRONMENTAL HAZARDS Not classified

2.2 Label elements

Pictograms or hazard symbols



Signal word

Danger

Hazard statements

H225-Highly flammable liquid and vapour.

H335-May cause respiratory irritation.

H336-May cause drowsiness or dizziness.

H304-May be fatal if swallowed and enters airways.

Precautionary statements

[Prevention]	P210-Keep away from heat/sparks/open flames/hot surfaces. — No smoking. P233-Keep container tightly closed. P241+P242+P243-Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against ignition by the static discharge and the spark. P261-Avoid breathing dust/fume/gas/mist/vapours/spray. P271-Use only outdoors or in a well-ventilated area. P280-Wear protective gloves/eye protection/face protection.
[Response]	P304+P340-IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P301+P310-IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P331-Do NOT induce vomiting. P303+P361+P353-IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P312-Call a POISON CENTER or doctor/physician if you feel unwell.
[Storage]	P403+P233-Store in a well-ventilated place. Keep container tightly closed. P405-Store locked up.
[Disposal]	P501-Dispose of contents/container through a waste management company authorized by the local government

Other hazards which do not

result in classification May form explosive peroxides.

SECTION 3: Composition/information on ingredients

3.1 Substances

Components:	1-Hexene
Percent:	>99.0%(GC)
CAS Number:	592-41-6
EC-No:	209-753-1
Chemical Formula:	C ₆ H ₁₂

SECTION 4: First aid measures

4.1 Description of first aid measures

Inhalation: Remove victim to fresh air and keep at rest in a position

comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Skin contact: Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Ingestion: Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting.

Protection of first-aiders: A rescuer should wear personal protective equipment, such as rubber gloves and air-tight goggles.

4.2 Most important symptoms and effects, both acute and delayed

Cough, Dizziness, Drowsiness, Sore throat, Unconsciousness, Vomiting, Dry skin, Redness

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: Dry chemical, foam, carbon dioxide.

Unsuitable extinguishing media: Water (It may scatter and spread fire.)

5.2 Special hazards arising from the substance or mixture

Carbon monoxide, Carbon dioxide

5.3 Advice for firefighters

Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings: Keep containers cool by spraying with water. Eliminate all ignition sources if safe to do so. When extinguishing fire, be sure to wear personal protective equipment.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Use extra personal protective equipment (self-contained breathing apparatus). Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc.
- 6.2 Environmental precautions Prevent product from entering drains.
- 6.3 Methods and materials for containment and cleaning up Absorb spilled material in dry sand or inert absorbent before recovering it into an airtight container. In case of large amount of spillage, contain a spill by bunding. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations. Remove all sources of ignition. Fire-extinguishing devices should be prepared in case of a fire. Use spark-proof tools and explosion-proof equipment.
- 6.4 Reference to other sections For disposal see section 13.

SECTION 7: Handling and storage

- 7.1 Precautions for safe handling Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent generation of vapour or mist. Keep away from heat/sparks/open flame/hot surfaces. -No smoking. Take measures to prevent the build up of electrostatic charge. Use explosion-proof equipment. Wash hands and face thoroughly after handling. Use a closed system if possible. Use a ventilation, local exhaust if vapour or aerosol will be generated. Avoid contact with skin, eyes and clothing. Confirm in advance if peroxides exist when operations involving heating such as distillation are carried out.
- 7.2 Conditions for safe storage, including any incompatibilities Keep container tightly closed. Store in a cool, dark and well-ventilated place. Store locked up. Store away from incompatible materials such as oxidizing agents.

7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

ACGIH TLV(TWA): 50 ppm

8.2 Exposure controls Install a closed system or local exhaust. Also install safety shower and eye bath.

Respiratory protection: Half or full facepiece respirator, self-contained breathing apparatus(SCBA), supplied air respirator, etc. Use respirators approved under appropriate government standards and follow local and national regulations.

Hand protection: Impervious gloves.

Eye protection: Safety goggles. A face-shield, if the situation requires.

Skin and body protection: Impervious protective clothing. Protective boots, if the situation requires.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state (20°C):	Liquid
Form:	Clear
Colour:	Colorless - Very pale yellow
Odour:	Characteristic
pH:	No data available
Melting point/freezing point:	-140°C
Boiling point/range:	64°C
Flash point:	-31°C
Evaporation rate(Butyl Acetate=1):	No data available
Flammability(solid, gas):	No data available
Flammability or explosive limits:	
Lower:	1.2%
Upper:	6.9%
Vapour pressure:	41kPa/38°C
Vapour density:	2.9
Relative density:	0.67
Solubility(ies):	

[Water]	Insoluble (50mg/L, 25°C)
[Other solvents]	
Very soluble:	Ether, Benzene, Ethanol, Petroleum ether
Partition coefficient: n-octanol/water:	3.39
Autoignition temperature:	253°C
Decomposition temperature:	No data available
Dynamic Viscosity:	No data available
Kinematic viscosity:	No data available

9.2 Other safety information No data available

SECTION 10: Stability and reactivity

10.1 Reactivity	No data available
10.2 Chemical stability	May form explosive peroxides.
10.3 Possibility of hazardous reactions	No special reactivity has been reported.
10.4 Conditions to avoid	Spark, Open flame, Static discharge, Air
10.5 Incompatible materials	Oxidizing agents, Acids
10.6 Hazardous decomposition products	Carbon monoxide, Carbon dioxide

SECTION 11: Toxicological information

11.1 Information on toxicological effects	
Acute Toxicity:	ihl-rat LC50:32000 ppm/4H orl-rat LD:>10 g/kg skn-rbt LD:>10 g/kg
Skin corrosion/irritation:	No data available
Serious eye damage/irritation:	No data available
Respiratory or skin sensitization:	No data available
Germ cell mutagenicity:	No data available
Carcinogenicity:	
IARC =	No data available
NTP =	No data available
Reproductive toxicity:	No data available
STOT-single exposure:	No data available

STOT-repeated exposure:	No data available
Aspiration hazard:	No data available
RTECS Number:	MP6670000

SECTION 12: Ecological information

12.1 Toxicity

Fish:	No data available
Crustacea:	No data available
Algae:	No data available

12.2 Persistence and degradability 83% (by BOD), 93% (by TOC), 88% (by GC)

12.3 Bioaccumulative potential No data available

12.4 Mobility in soil

Log Pow:	3.39
Soil adsorption (Koc):	1660
Henry's Law constant(PaM ³ /mol):	415330

12.5 Results of PBT and vPvB assessment

PBT:	Not applicable
vPvB:	Not applicable

12.6 Other adverse effects No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recycle to process, if possible. Consult your local regional authorities. You may be able to burn in a chemical incinerator equipped with an afterburner and scrubber system but exert extra care in igniting as this material is highly flammable. Observe all federal, state and local regulations when disposing of the substance

SECTION 14: Transport information

14.1 UN number 2370

14.2 UN proper shipping name

ADR/RID	1-Hexene
IMDG/IMO	1-Hexene
ICAO/IATA	1-Hexene

14.3 Transport hazard class(es)

ADR/RID	3: Flammable liquid.
IMDG/IMO	3: Flammable liquid.
ICAO/IATA	3: Flammable liquid.

14.4 Packaging group

ADR/RID	II
IMDG/IMO	II
ICAO/IATA	II

14.5 Environmental hazards

Marine pollutant	-
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14.6 Special precautions for user No data available

SECTION 15: Regulatory information

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

Water Hazard Classes (WGK) : Class 1 - Low hazard to waters

Substance of Very High Concern (SVHC) according to the

REACH Regulations (EC) No.1907/2006 Not listed

15.2 Chemical safety assessment A chemical safety assessment has not been carried out.

SECTION 16: Other information

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. The 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.