

1-Hexene

Revision 2 number:

Revision date: 12/04/2020

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SAFETY DATA SHEET

1. IDENTIFICATION

Product name:
Product code:
Company:
Address:
Responsible department:
Telephone:
Fax:
e-mail:
Revision number:

1-Hexene H0121 TOKYO CHEMICAL INDUSTRY CO., LTD. 4-10-2, Nihonbashi-honcho, Chuo-ku, Tokyo 103-0023, Japan Global Business Department +81-3-5640-8872 +81-3-5640-8902 globalbusiness@TCIchemicals.com 2

SUPPLIER CONTACT DETAILS IN AUSTRALIA

Company:	ChemSupply Australia Pty Ltd
Address:	38-50 Bedford Street, Gillman SA 5013
Telephone:	(08) 8440 2000
Emergency telephone	(CHEMCALL®, 24 hours):
number:	1800 127 406 (Australia), +64 4 917 9888 (International)

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture PHYSICAL HAZARDS Flammable liquids HEALTH HAZARDS Specific target organ toxicity - Single exposure [Category 3] Aspiration hazard ENVIRONMENTAL HAZARDS Acute aquatic hazard Label elements Pictograms or hazard symbols



Signal word Hazard statements Category 2

Respiratory tract irritation, Narcotic effects

Category 1

Category 2

Danger Highly flammable liquid and vapour May cause respiratory irritation May cause drowsiness or dizziness May be fatal if swallowed and enters airways Toxic to aquatic life

Precautionary statements

 [Prevention]
 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

 Keep container tightly closed.
 Ground/bond container and receiving equipment.

 Use explosion-proof electrical, ventilating and lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

 Avoid breathing mist, vapors or spray.

 Use only outdoors or in a well-ventilated area.

 Avoid release to the environment.

 Wear protective gloves, eye protection.

 [F SWALLOWED: Immediately call a POISON CENTER or doctor. Do NOT induce

1-Hexene	TOKYO CHEMICAL Revision number: 2 Revision date: 12/04/2020 Page 2 of 5 INDUSTRY CO., LTD.
	vomiting.
	IF ON ŠKIN (or hair): Take off immediately all contaminated clothing. Rinse skin
	with water or shower.
	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call
	a POISON CENTER or doctor if you feel unwell.
	In case of fire: Use dry chemical, dry sand or foam to extinguish.
[Storage]	Store in a well-ventilated place. Keep container tightly closed.
	Store locked up.
[Disposal]	Dispose of contents and container in accordance with local, regional, national
	regulations.
Other hazards which do not	May form explosive peroxides.
result in classification	
3. COMPOSITION/INFORMAT	
Substance/mixture:	Substance
Chemical Formula:	C6H12
Notice Through Official Gaze	
ENCS:	(2)-22, (2)-31
ISHL:	Official announcement chemistry substance.
	,
4. 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. Rinse skin with
	water/shower. 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.
5. FIRE-FIGHTING MEASURE	-
Suitable extinguishing	Dry chemical, foam, carbon dioxide.
media:	
Unsuitable extinguishing	Water (It may scatter and spread fire.)
media:	
Precautions for firefighters:	Fire-extinguishing work is done from the windward and the suitable

Precautions 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.

Special protective equipment When extinguishing fire, be sure to wear personal protective equipment for firefighters:

6. ACCIDENTAL RELEASE MEASURES

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

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7. HANDLING AND STORAGE	
Precautions for safe handlin	
Technical measures:	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 surfacesNo smoking. Take measures to prevent the build up of electrostatic charge. Use explosion-proof equipment. Wash hands and
Advice on offerendling.	face thoroughly after handling. Use a closed system if possible. Use a ventilation, local exhaust if vapour or aerosol will be generated.
Advice on safe handling:	Avoid contact with skin, eyes and clothing. Confirm in advance if peroxides exist when operations involving heating such as distillation are carried out.
Conditions for safe storage.	including any incompatibilities
Storage conditions:	Keep container tightly closed. Store in a cool, dark and well-ventilated place. Store locked up.
Packaging material:	Store away from incompatible materials such as oxidizing agents. Comply with laws.
8. EXPOSURE CONTROLS / F	PERSONAL PROTECTION
Engineering controls:	Install a closed system or local exhaust. Also install safety shower and eye bath.
Control parameters:	Not set up
Exposure limits:	
ACGIH TLV(TWA):	50 ppm
	50 ppm
Personal protective equipme	
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.
Eye protection: Skin and body protection:	Safety goggles. A face-shield, if the situation requires. Impervious protective clothing. Protective boots, if the situation requires.
Eye protection: Skin and body protection: 9. PHYSICAL AND CHEMICA	Safety goggles. A face-shield, if the situation requires. Impervious protective clothing. Protective boots, if the situation requires.
Eye protection: Skin and body protection:	Safety goggles. A face-shield, if the situation requires. Impervious protective clothing. Protective boots, if the situation requires.
Eye protection: Skin and body protection: 9. PHYSICAL AND CHEMICA	Safety goggles. A face-shield, if the situation requires. Impervious protective clothing. Protective boots, if the situation requires.
Eye protection: Skin and body protection: 9. PHYSICAL AND CHEMICA Physical state (20°C):	Safety goggles. A face-shield, if the situation requires. Impervious protective clothing. Protective boots, if the situation requires. L PROPERTIES Liquid
Eye protection: Skin and body protection: 9. PHYSICAL AND CHEMICA Physical state (20°C): Form:	Safety goggles. A face-shield, if the situation requires. Impervious protective clothing. Protective boots, if the situation requires. L PROPERTIES Liquid Clear
Eye protection: Skin and body protection: 9. PHYSICAL AND CHEMICA Physical state (20°C): Form: Colour:	Safety goggles. A face-shield, if the situation requires. Impervious protective clothing. Protective boots, if the situation requires. L PROPERTIES Liquid Clear Colorless - Very pale yellow
Eye protection: Skin and body protection: 9. PHYSICAL AND CHEMICA Physical state (20°C): Form: Colour: Odour: pH:	Safety goggles. A face-shield, if the situation requires. Impervious protective clothing. Protective boots, if the situation requires. Liquid Clear Colorless - Very pale yellow Characteristic No data available
Eye protection: Skin and body protection: 9. PHYSICAL AND CHEMICAL Physical state (20°C): Form: Colour: Odour: pH: Melting point/freezing point:	Safety goggles. A face-shield, if the situation requires. Impervious protective clothing. Protective boots, if the situation requires. Liquid Clear Colorless - Very pale yellow Characteristic No data available
Eye protection: Skin and body protection: 9. PHYSICAL AND CHEMICAL Physical state (20°C): Form: Colour: Odour: pH: Melting point/freezing point: Boiling point/range:	Safety goggles. A face-shield, if the situation requires. Impervious protective clothing. Protective boots, if the situation requires.
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Eye protection: Skin and body protection: 9. PHYSICAL AND CHEMICA Physical state (20°C): Form: Colour: Odour: pH: Melting point/freezing point: Boiling point/range: Flash point: Flammability or explosive limits:	Safety goggles. A face-shield, if the situation requires. Impervious protective clothing. Protective boots, if the situation requires. Liquid Clear Colorless - Very pale yellow Characteristic No data available -140°C 64°C -31°C
Eye protection: Skin and body protection: 9. PHYSICAL AND CHEMICA Physical state (20°C): Form: Colour: Odour: pH: Melting point/freezing point: Boiling point/freezing point: Boiling point/range: Flash point: Flammability or explosive limits: Lower:	Safety goggles. A face-shield, if the situation requires. Impervious protective clothing. Protective boots, if the situation requires. PROPERTIES Liquid Clear Colorless - Very pale yellow Characteristic No data available -140°C 64°C -31°C
Eye protection: Skin and body protection: 9. PHYSICAL AND CHEMICA Physical state (20°C): Form: Colour: Odour: pH: Melting point/freezing point: Boiling point/range: Flash point: Flammability or explosive limits: Lower: Upper:	Safety goggles. A face-shield, if the situation requires. Impervious protective clothing. Protective boots, if the situation requires. PROPERTIES Liquid Clear Colorless - Very pale yellow Characteristic No data available -140°C 64°C -31°C 1.2% 6.9%
Eye protection: Skin and body protection: 9. PHYSICAL AND CHEMICA Physical state (20°C): Form: Colour: Odour: pH: Melting point/freezing point: Boiling point/range: Flash point: Flammability or explosive limits: Lower: Upper: Vapour pressure:	Safety goggles. A face-shield, if the situation requires. Impervious protective clothing. Protective boots, if the situation requires. PROPERTIES Liquid Clear Colorless - Very pale yellow Characteristic No data available -140°C 64°C -31°C 1.2% 6.9% 41kPa/38°C
Eye protection: Skin and body protection: 9. PHYSICAL AND CHEMICA Physical state (20°C): Form: Colour: Odour: pH: Melting point/freezing point: Boiling point/freezing point: Boiling point/range: Flash point: Flammability or explosive limits: Lower: Upper: Vapour pressure: Vapour density:	Safety goggles. A face-shield, if the situation requires. Impervious protective clothing. Protective boots, if the situation requires. Liquid Clear Colorless - Very pale yellow Characteristic No data available -140°C 64°C -31°C 1.2% 6.9% 41kPa/38°C 2.9
Eye protection: Skin and body protection: 9. PHYSICAL AND CHEMICA Physical state (20°C): Form: Colour: Odour: pH: Melting point/freezing point: Boiling point/freezing point: Boiling point/range: Flash point: Flammability or explosive limits: Lower: Upper: Vapour pressure: Vapour density: Relative density:	Safety goggles. A face-shield, if the situation requires. Impervious protective clothing. Protective boots, if the situation requires. PROPERTIES Liquid Clear Colorless - Very pale yellow Characteristic No data available -140°C 64°C -31°C 1.2% 6.9% 41kPa/38°C
Eye protection: Skin and body protection: 9. PHYSICAL AND CHEMICAL Physical state (20°C): Form: Colour: Odour: pH: Melting point/freezing point: Boiling point/freezing point: Boiling point/range: Flash point: Flammability or explosive limits: Lower: Upper: Vapour pressure: Vapour pressure: Vapour density: Relative density: Solubility(ies):	Safety goggles. A face-shield, if the situation requires. Impervious protective clothing. Protective boots, if the situation requires. Liquid Clear Colorless - Very pale yellow Characteristic No data available -140°C 64°C -31°C 1.2% 6.9% 41kPa/38°C 2.9 0.67
Eye protection: Skin and body protection: 9. PHYSICAL AND CHEMICAL Physical state (20°C): Form: Colour: Odour: pH: Melting point/freezing point: Boiling point/freezing point: Boiling point/range: Flash point: Flammability or explosive limits: Lower: Upper: Vapour pressure: Vapour pressure: Vapour density: Relative density: Solubility(ies): [Water]	Safety goggles. A face-shield, if the situation requires. Impervious protective clothing. Protective boots, if the situation requires. Liquid Clear Colorless - Very pale yellow Characteristic No data available -140°C 64°C -31°C 1.2% 6.9% 41kPa/38°C 2.9
Eye protection: Skin and body protection: 9. PHYSICAL AND CHEMICA Physical state (20°C): Form: Colour: Odour: pH: Melting point/freezing point: Boiling point/freezing point: Boiling point/range: Flash point: Flammability or explosive limits: Lower: Upper: Vapour pressure: Vapour pressure: Vapour density: Relative density: Solubility(ies): [Water] [Other solvents]	Safety goggles. A face-shield, if the situation requires. Impervious protective clothing. Protective boots, if the situation requires. Liquid Clear Colorless - Very pale yellow Characteristic No data available -140°C 64°C -31°C 1.2% 6.9% 41kPa/38°C 2.9 0.67 Insoluble (50mg/L, 25°C)
Eye protection: Skin and body protection: 9. PHYSICAL AND CHEMICA Physical state (20°C): Form: Colour: Odour: pH: Melting point/freezing point: Boiling point/freezing point: Boiling point/range: Flash point: Flammability or explosive limits: Lower: Upper: Vapour pressure: Vapour pressure: Vapour density: Relative density: Solubility(ies): [Water] [Other solvents] Very soluble:	Safety goggles. A face-shield, if the situation requires. Impervious protective clothing. Protective boots, if the situation requires. Liquid Clear Colorless - Very pale yellow Characteristic No data available -140°C 64°C -31°C 1.2% 6.9% 41kPa/38°C 2.9 0.67 Insoluble (50mg/L, 25°C) Ether, Benzene, Ethanol, Petroleum ether
Eye protection: Skin and body protection: 9. PHYSICAL AND CHEMICA Physical state (20°C): Form: Colour: Odour: pH: Melting point/freezing point: Boiling point/range: Flash point: Flammability or explosive limits: Lower: Upper: Vapour pressure: Vapour pressure: Vapour density: Relative density: Solubility(ies): [Water] [Other solvents] Very soluble: Log Pow:	Safety goggles. A face-shield, if the situation requires. Impervious protective clothing. Protective boots, if the situation requires. Liquid Clear Colorless - Very pale yellow Characteristic No data available -140°C 64°C -31°C 1.2% 6.9% 41kPa/38°C 2.9 0.67 Insoluble (50mg/L, 25°C) Ether, Benzene, Ethanol, Petroleum ether 3.39
Eye protection: Skin and body protection: 9. PHYSICAL AND CHEMICA Physical state (20°C): Form: Colour: Odour: pH: Melting point/freezing point: Boiling point/freezing point: Boiling point/range: Flash point: Flammability or explosive limits: Lower: Upper: Vapour pressure: Vapour pressure: Vapour density: Relative density: Solubility(ies): [Water] [Other solvents] Very soluble:	Safety goggles. A face-shield, if the situation requires. Impervious protective clothing. Protective boots, if the situation requires. Liquid Clear Colorless - Very pale yellow Characteristic No data available -140°C 64°C -31°C 1.2% 6.9% 41kPa/38°C 2.9 0.67 Insoluble (50mg/L, 25°C) Ether, Benzene, Ethanol, Petroleum ether

10. STABILITY AND REACTIVITY

No data available
May form explosive peroxides.
No special reactivity has been reported.
Spark, Open flame, Static discharge, Air
Oxidizing agents, Acids
Carbon dioxide, Carbon monoxide

11. TOXICOLOGICAL INFORMATION Acute Toxicity: ihl-rat LC50:32000 ppm/4H

Acute loxicity:	orl-rat LD:>10 g/kg
	skn-rbt LD:>10 g/kg
Skin corrosion/irritation:	No data available
Serious eye	No data available
damage/irritation:	
Germ cell mutagenicity:	No data available
Carcinogenicity:	
IARC =	No data available
NTP =	No data available
Reproductive toxicity:	No data available
RTECS Number:	MP6670000

12. ECOLOGICAL INFORMATION

Ecotoxicity:	
Fish:	No data available
Crustacea:	No data available
Algae:	No data available
Persistence / degradability:	83% (by BOD) , 93% (by TOC) , 88% (by GC)
	*The substance was determined as "Ready biodegradability" under the Chemical
	Substances Control Law.
Bioaccumulative	No data available
potential(BCF):	
Mobility in soil	
Log Pow:	3.39
Soil adsorption (Koc):	1660
Henry's Law (PaM ³/mol):	415330
Other adverse effects:	No data available

13. DISPOSAL CONSIDERATIONS

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

14. TRANSPORT INFORMATION

Hazards Class:	3: Flammable liquid.
UN-No:	2370
Proper shipping name:	1-Hexene
Packing group:	II
Specific precautionary	
transport measures and	
conditions:	

TOKYO CHEMICAL INDUSTRY CO., LTD.

15. JAPANESE REGULATORY INFORMATION

Fire Defense Law: ISHL(Article 57): ISHL(Article 57-2): ISHL(Enforcement Order of the Industrial Safety and Health Act Appended Table 1):	Class-4 No.1 petroleums Dangerous grade 2 Not water-soluble fluid Dangerous or Harmful Substances Subject to Be Indicated their Names, etc. Dangerous or Harmful Substances Subject to Be Notified their Names, etc. Inflammable Substances
Law for safety of vessels:	Hazardous materials notification, Schedule form No.1 Flammable liquid
16. OTHER INFORMATION	
The reference company name	e of written contents
Company:	TOKYO CHEMICAL INDUSTRY CO., LTD.
Address:	4-10-2, Nihonbashi-honcho, Chuo-ku, Tokyo 103-0023, Japan
Department:	Global Business Department
Telephone:	+81-3-5640-8872
Fax:	+81-3-5640-8902

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 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.