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SAFETY DATA SHEET

1. IDENTIFICATION

Product name: 1-Hexene Product code: H0121

Company: TOKYO CHEMICAL INDUSTRY CO., LTD.

Address: 4-10-2, Nihonbashi-honcho, Chuo-ku, Tokyo 103-0023, Japan

number:

Responsible department: Global Business Department

Telephone: +81-3-5640-8872 **Fax:** +81-3-5640-8902

e-mail: globalbusiness@TClchemicals.com

Revision number: 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 Category 2

HEALTH HAZARDS

Specific target organ toxicity Respiratory tract irritation, Narcotic effects

Category 1

Danger

- Single exposure [Category 3]

Aspiration hazard

ENVIRONMENTAL HAZARDS

Acute aquatic hazard Category 2

Label elements

Pictograms or hazard symbols







Signal word

Hazard statements 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.

[Response] IF SWALLOWED: Immediately call a POISON CENTER or doctor. Do NOT induce

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vomitina.

IF ON SKIN (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. 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

[Storage]

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture: Substance Chemical Formula: C₆H₁₂

Notice Through Official Gazettes Reference Number

ENCS: (2)-22, (2)-31

ISHL: Official announcement chemistry substance.

4. FIRST-AID MEASURES

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Inhalation:

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.

Rinse cautiously with water for several minutes. Remove contact lenses, if present Eye contact:

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 MEASURES

Suitable extinguishing Dry chemical, foam, carbon dioxide.

media:

Unsuitable extinguishing

media:

Water (It may scatter and spread fire.)

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. 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.

Prevent product from entering drains. **Environmental precautions:**

Methods and materials for containment and cleaning

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.

Prevention of secondary

hazards:

Remove all sources of ignition. Fire-extinguishing devices should be prepared in

case of a fire. Use spark-proof tools and explosion-proof equipment.

7. HANDLING AND STORAGE

Precautions for safe handling

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 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.

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.

Store away from incompatible materials such as oxidizing agents.

Packaging material: Comply with laws.

8. EXPOSURE CONTROLS / 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 Personal protective equipment

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Liquid Clear

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

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

Log Pow: 3.39 **Autoignition temperature:** 253°C

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10. STABILITY AND REACTIVITY

Reactivity: No data available

Chemical stability: May form explosive peroxides.

Possibility of hazardous No special reactivity has been reported.

reactions:

Conditions to avoid: Spark, Open flame, Static discharge, Air

Oxidizing agents, Acids Incompatible materials:

Carbon dioxide, Carbon monoxide Hazardous decomposition

products:

11. TOXICOLOGICAL INFORMATION

ihl-rat LC50:32000 ppm/4H **Acute Toxicity:**

> orl-rat LD:>10 g/kg skn-rbt LD:>10 g/kg No data available

Skin corrosion/irritation: No data available Serious eye

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 No data available Crustacea: No data available Algae:

83% (by BOD), 93% (by TOC), 88% (by GC) Persistence / degradability:

*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: Ш

Specific precautionary transport measures and

conditions:

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15. JAPANESE REGULATORY INFORMATION

Fire Defense Law: Class-4 No.1 petroleums Dangerous grade 2 Not water-soluble fluid

ISHL(Article 57): Dangerous or Harmful Substances Subject to Be Indicated their Names, etc.

Dangerous or Harmful Substances Subject to Be Notified their Names, etc.

ISHL(Enforcement Order of Inflammable Substances

the Industrial Safety and Health Act Appended Table

1):

Law for safety of vessels: Hazardous materials notification, Schedule form No.1 Flammable liquid

16. OTHER INFORMATION

The reference company name of written contents

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Department: Global Business Department

disposal. Safe usage conditions shall be set up on each user's own responsibility.

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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