

TOKYO CHEMICAL INDUSTRY CO., LTD.

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SAFETY DATA SHEET

1. IDENTIFICATION

Product name: 1-Pentene
Product code: P0316

Company: TOKYO CHEMICAL INDUSTRY CO., LTD.

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Revision number: 3

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

PHYSICAL HAZARDS Flammable liquids

Category 1

HEALTH HAZARDS

Aspiration hazard Category 1
ENVIRONMENTAL HAZARDS Not classified

Label elements

Pictograms or hazard symbols





Signal word Danger

Hazard statementsExtremely flammable liquid and vapour
May be fatal if swallowed and enters airways

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.

Wear protective gloves, eye protection.

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

induce vomiting.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin

with water or shower.

[Storage] Store in a well-ventilated place. Keep cool.

Store locked up.

[Disposal] Dispose of contents and container in accordance with local, regional, national

regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Notice Through Official Gazettes Reference Number

ENCS: (2)-19

ISHL: Official announcement chemistry substance.

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4. FIRST-AID MEASURES

Eye contact:

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

breathing. Get medical advice/attention 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 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

media:

Dry chemical, foam, carbon dioxide.

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

When extinguishing fire, be sure to wear personal protective equipment

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.

Environmental precautions: Prevent product from entering drains.

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.

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.

Conditions for safe storage, including any incompatibilities

Storage conditions: Keep container tightly closed. Store in an explosion-proof refrigerator.

> Store under inert gas. Store locked up.

Store away from incompatible materials such as oxidizing agents.

Heat-sensitive, Air-sensitive

Packaging material: Comply with laws.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls: Install a closed system or local exhaust. Also install safety shower and eye

Control parameters: Not set up

Personal protective equipment

Half or full facepiece respirator, self-contained breathing apparatus(SCBA), Respiratory protection:

supplied air respirator, etc. Use respirators approved under appropriate

government standards and follow local and national regulations.

Hand protection: Impervious gloves.

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

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Liquid Clear Form:

Colorless - Almost colorless Colour:

Odour: No data available Melting point/freezing point: No data available

30°C **Boiling point/range:**

Flammability(solid, gas): No data available Flash point: No data available

Autoignition temperature: 273°C

Flammability or explosive

limits:

1.6% Lower: 8.7% Upper:

No data available pH: No data available Kinematic viscosity: 84.7kPa/25°C Vapour pressure:

Solubility(ies):

[Water] Insoluble (148mg/L, 25°C)

[Other solvents]

Miscible: Ether, Alcohols, Benzene

Log Pow: 2.66 Relative density: 0.64 Vapour density: 2.42

No data available Particle characteristics:

10. STABILITY AND REACTIVITY

No data available Reactivity:

Chemical stability: Stable under proper conditions.

Possibility of hazardous

reactions:

No special reactivity has been reported.

Spark, Open flame, Static discharge Conditions to avoid: Oxidizing agents Incompatible materials:

Carbon dioxide, Carbon monoxide Hazardous decomposition

products:

11. TOXICOLOGICAL INFORMATION

Acute Toxicity: ihl-mus LC50:180000 mg/m³/2H

ihl-rat LC50:175000 mg/m³/4H

Skin corrosion/irritation: No data available Serious eve No data available

damage/irritation:

No data available Germ cell mutagenicity:

Carcinogenicity:

No data available 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: **RTECS Number:** SB2179000

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12. ECOLOGICAL INFORMATION

Ecotoxicity:

Fish:
Crustacea:
Algae:
No data available

Bioaccumulative 22

potential(BCF): Mobility in soil

> Log Pow: 2.66 Soil adsorption (Koc): 81 Henry's Law (PaM ³/mol): 4 x 10-4

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

UN-No: 1108
Proper shipping name: 1-Pentene

Hazards Class: 3: Flammable liquid.

Packing group:

Specific precautionary transport measures and

conditions:

15. JAPANESE REGULATORY INFORMATION

Fire Defense Law: Class-4 Special flammable substance Dangerous grade 1

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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