

Section 1. Product and Company Identification

Product Name 1-Tetradecene
CAS Number 1120-36-1

Parchem - fine & specialty chemicals
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EMERGENCY RESPONSE NUMBER
CHEMTEL
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Collect Calls Accepted

Section 2. Hazards Identification

Classification of the substance or mixture

Aspiration hazard, Category 1

GHS Label Elements

Pictograms:



Signal word: DANGER

Hazard and precautionary statements

Hazard Statements

H304: May be fatal if swallowed and enters airways.

Precautionary Statements

Response

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.

P331 Do NOT induce vomiting.

Storage

P405 Store locked up.

Disposal

P501 Dispose of contents/ container to an approved waste disposal plant.

Classification of the substance or mixture: This product has been classified in accordance with the hazard communication standard 29 CFR 1910.1200; the SDS and labels contain all the information as required by the standard.



Emergency Overview

Form: Liquid **Physical state:** Liquid **Color:** Colorless

OSHA Hazards: Aspiration hazard

Carcinogenicity

IARC: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

ACGIH: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

Section 3. Composition / Information on Ingredients

Common Name 1-Tetradecene
Synonym(s) Tetradec-1-ene; 1-Tetradecene
Formula C₁₄H₂₈
CAS Number 1120-36-1

COMPONENT	CAS NUMBER	CONCENTRATION
1-Tetradecene	1120-36-1	94%
2-Butyl-1-Decene	51655-65-3	2%
2-Ethyl-1-Dodecene	19780-34-8	2%
2-Hexyl-1-Octene	19780-80-4	1%
Related Materials	-	1%

Section 4. First Aid Measures

General advice: Move out of dangerous area. Show this material safety data sheet to the doctor in attendance. Symptoms of poisoning may appear several hours later. Do not leave the victim unattended

If inhaled: If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician.

In case of eye contact: Flush eyes with water as a precaution. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.

If swallowed: Keep respiratory tract clear. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital.

Section 5. Firefighting Measures

Flash point: 107°C (225°F)

Autoignition temperature: 235°C (455°F)

Unsuitable extinguishing media: High volume water jet.



Special protective equipment for fire-fighters: Wear self-contained breathing apparatus for firefighting if necessary.

Further information: Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Fire and explosion protection: Normal measures for preventive fire protection.

Hazardous decomposition products: No data available.

Section 6. Accidental Release Measures

Personal precautions: Use personal protective equipment. Ensure adequate ventilation.

Environmental precautions: Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

Methods for cleaning up: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

Section 7. Handling and Storage

Handling

Advice on safe handling: Do not breathe vapors/dust. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion: Normal measures for preventive fire protection.

Storage

Requirements for storage areas and containers: Keep container tightly closed in a dry and well-ventilated place. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

Section 8. Exposure Controls / Personal Protection

Engineering measures: Consider the potential hazards of this material, applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

Personal protective equipment

Respiratory protection: Wear a supplied-air NIOSH approved respirator unless ventilation or other engineering controls are adequate to maintain minimal oxygen content of 19.5% by volume under normal atmospheric pressure. Wear a NIOSH approved respirator that provides protection when working with this material if exposure to harmful levels of airborne material may occur.

Hand protection: The suitability for a specific workplace should be discussed with the producers of the protective gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Eye protection: Eye wash bottle with pure water. Tightly fitting safety goggles.

Skin and body protection: Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. Wear as appropriate: Protective suit. Safety shoes.

Hygiene measures: When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

Section 9. Physical and Chemical Properties

Appearance

Form: Liquid

Physical state: Liquid

Color: Colorless

Safety data

Flash point: 107°C (225°F)

Lower explosion limit: > 0.5 %(V)

Upper explosion limit: < 5.4 %(V)

Oxidizing properties: No

Autoignition temperature: 235 °C (455 °F)

Molecular weight: 196.42 g/mol

pH: not applicable

pour point: No data available

Melting point/range: -13.9°C (7.0°F)

Boiling point/boiling range: 251°C (484°F)

Vapor pressure: 0.01 mm Hg at 25°C (77°F)

< 0.10 kPa at 65°C (149°F)

Relative density: 0.77, 15.6°C (60.1°F)

Density: 775 kg/m³ at 15°C (59°F)

774 kg/m³ at 25°C (77°F)

750 kg/m³ at 50°C (122°F)

Water solubility: Soluble in hydrocarbon solvents; insoluble in water.

Partition coefficient: n-octanol/water: No data available

Viscosity, kinematic: 2.61 cSt at 20°C (68°F)

Relative vapor density: 6.8 (Air = 1.0)

Evaporation rate: No data available

Section 10. Stability and Reactivity

Chemical stability: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure. Possibility of hazardous reactions

Conditions to avoid: No data available.

Materials to avoid: May react with oxygen and strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

Other data: No decomposition if stored and applied as directed.

Section 11. Toxicological Information

Acute oral toxicity

1-Tetradecene

LD50: > 3,575 mg/kg

Species: rat

Sex: male and female

Method: Fixed Dose Method

Information given is based on data obtained from similar substances.

Acute inhalation toxicity

1-Tetradecene

LC50: 32000 ppm

Exposure time: 4 h

Species: rat

Sex: male

Test atmosphere: vapor

Method: OECD Test Guideline 403

Information given is based on data obtained from similar substances.

Acute dermal toxicity

1-Tetradecene

LD50: > 2,020 mg/kg

Species: rabbit

Sex: male and female

Method: OECD Test Guideline 402

Information given is based on data obtained from similar substances.

Skin irritation

1-Tetradecene

No skin irritation

Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin resulting in desiccation of the skin.



Eye irritation

1-Tetradecene
No eye irritation

Sensitization

1-Tetradecene
Did not cause sensitization on laboratory animals.

Repeated dose toxicity

1-Tetradecene
Species: rat, female
Sex: female
Application Route: Oral
Dose: 0, 100, 500, 1000 mg/kg
Exposure time: 46-47 days
NOEL: 100 mg/kg
Method: OECD Guideline 422

Species: rat, male
Sex: male
Application Route: Oral
Dose: 0, 100, 500, 1000 mg/kg
Exposure time: 43-47 days
Method: OECD Guideline 422
Target Organs: Kidney

Reproductive toxicity

1-Tetradecene
Species: rat
Sex: male
Application Route: Oral diet
Dose: 0, 100, 500, 1000 mg/kg
Exposure time: 43-47 days
Method: OECD Guideline 422
NOAEL Parent: 1,000 mg/kg
NOAEL F1: 1,000 mg/kg

Species: rat
Sex: female
Application Route: Oral diet
Dose: 0, 100, 500, 1000 mg/kg
Exposure time: 46-47 days
Method: OECD Guideline 422
NOAEL Parent: 1,000 mg/kg
NOAEL F1: 1,000 mg/kg

Aspiration toxicity

1-Tetradecene

May be fatal if swallowed and enters airways. Substances known to cause human aspiration toxicity hazards or to be regarded as if they cause human aspiration toxicity hazard.

CMR effects

1-Tetradecene

Carcinogenicity: Not available

Mutagenicity: Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Teratogenicity: Not available

Reproductive toxicity: No toxicity to reproduction

Further information: Solvents may degrease the skin.

Section 12. Ecological Information

Toxicity to fish

1-Tetradecene

LL50: > 1,000 mg/l

Exposure time: 96 h

Species: *Oncorhynchus mykiss* (rainbow trout)

semi-static test Test substance: yes

Method: OECD Test Guideline 203

The product has low solubility in the test medium. An aqueous dispersion was tested.

Toxicity to daphnia and other aquatic invertebrates

EL50: > 1,000 mg/l

Exposure time: 48 h

Species: *Daphnia magna* (Water flea)

Test substance: yes

Method: OECD Test Guideline 202

The product has low solubility in the test medium. An aqueous dispersion was tested.

Toxicity to algae

EL50: > 1,000 mg/l

Exposure time: 96 h

Species: *Selenastrum capricornutum* (algae)

static test Test substance: yes

Method: OECD Test Guideline 201

The product has low solubility in the test medium. An aqueous dispersion was tested.

Elimination information (persistence and degradability)

Biodegradability: According to the results of tests of biodegradability this product is considered as being readily biodegradable.



Ecotoxicology Assessment

Results of PBT assessment: Non-classified PBT substance, Non-classified vPvB substance

Additional ecological information: No data available

Section 13. Disposal Considerations

Waste Treatment Methods: Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

Section 14. Transport Information

US DOT (United States Department of Transportation): Not regulated as a hazardous material or dangerous goods for transportation by this agency.

IMO / IMDG (International Maritime Dangerous Goods): Not regulated as a hazardous material or dangerous goods for transportation by this agency.

IATA (International Air Transport Association): Not regulated as a hazardous material or dangerous goods for transportation by this agency.

ADR (Agreement on Dangerous Goods By Road (Europe)): Not regulated as a hazardous material or dangerous goods for transportation by this agency.

RID (Regulations Concerning the International Transport of Dangerous Goods (Europe)): Not regulated as a hazardous material or dangerous goods for transportation by this agency.

ADN (European Agreement Concerning the International Carriage of Dangerous Goods By Inland Waterways): Not regulated as a hazardous material or dangerous goods for transportation by this agency

Section 15. Regulatory Information

National legislation

SARA 311/312 Hazards: Acute Health Hazard

SARA 302 Threshold Planning Quantity: SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Ingredients: SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

Ozone-Depletion Potential: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).



US State Regulations

Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know

1-Tetradecene - 1120-36-1

New Jersey Right To Know

1-Tetradecene - 1120-36-1

2-Butyl-1-Decene - 51655-65-3

2-Ethyl-1-Dodecene - 19780-34-8

2-Hexyl-1-Octene - 19780-80-4

California Prop. 65 Ingredients: This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

Notification status

Europe REACH: On the inventory, or in compliance with the inventory

United States of America TSCA: On the inventory, or in compliance with the inventory

Canada DSL: On the inventory, or in compliance with the inventory

Australia AICS: On the inventory, or in compliance with the inventory

New Zealand NZIoC: On the inventory, or in compliance with the inventory

Japan ENCS: On the inventory, or in compliance with the inventory

Korea KECI: On the inventory, or in compliance with the inventory

Philippines PICCS: On the inventory, or in compliance with the inventory

China IECSC: On the inventory, or in compliance with the inventory

Section 16. Other Information

Disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

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