

## LTS Research Laboratories, Inc. Safety Data Sheet 1,3-Hexadiene, mixture of cis and trans

## 1. Product and Company Identification

Trade Name: 1,3-Hexadiene, mixture of cis and trans

Chemical Formula:

Recommended Use: Scientific research and development

Manufacturer/Supplier: LTS Research Laboratories, Inc.

> 2001 Oaks Pkwy Street: City: Belmont

North Carolina State:

Zip Code: 28012 Country: **USA** 

Tel #: 855-587-2436 / 855-lts-chem

24-Hour Emergency Contact: 800-424-9300 (US & Canada)

+1-703-527-3887 (International)

## 2. Hazards Identification

Signal Word: Danger



H225: Highly flammable liquid and vapor **Hazard Statements:** 

H315: Causes skin irritation

H319: Causes serious eye irritation

H335: May cause respiratory irritation

P210: Keep away from heat/sparks/open flames/hot surfaces. No **Precautionary Statements:** 

smoking

P233: Keep container tightly closed

P240: Ground/bond container and receiving equipment

P241: Use explosion-proof electrical/ventilating/lighting/equipment

P242: Use only non-sparking tools

P243: Take precautionary measures against static discharge

P261: Avoid breathing mist or vapors P264: Wash skin thoroughly after handling

P271: Use only outdoors or in a well-ventilated area

P280: Wear protective gloves/ eye protection/ face protection

P303 + P361 + P353: IF ON SKIN (or hair): Take off immediately all

Contaminated clothing. Rinse skin with water/ shower

P304 + P340 + P312: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing

P332 + P313: If skin irritation occurs: Get medical advice/ attention P337 + P313: If eye irritation persists: Get medical advice/ attention

P362: Take off contaminated clothing and wash before reuse

P370 + P378: In case of fire: Use dry sand, dry chemical or alcohol-

resistant foam to extinguish

P403 + P233: Store in a well-ventilated place. Keep container tightly

closed

P403 + P235: Store in a well-ventilated place. Keep cool

P405: Store locked up

P501: Dispose of contents/container in accordance with

local/regional/national/international regulations

HMIS Health Ratings (0-4):

Health: N/A
Flammability: N/A
Physical: N/A

3. Composition

Chemical Family: Organometallic

Additional Names: None

1,3-Hexadiene, mixture of cis and trans (C<sub>6</sub>H<sub>10</sub>)

Percentage: 100 wt% CAS #: 592-48-3 EC #: 209-759-4

4. First Aid Procedures

General Treatment: Seek medical attention if symptoms persist.

Special Treatment: None Important Symptoms: N/A

Inhalation: Remove victim to fresh air. Sur

Inhalation: Remove victim to fresh air. Supply oxygen if breathing is difficult.

Seek medical attention.

Ingestion: Rinse mouth with water. Do not induce vomiting. Seek medical

attention.

Skin: Wash affected area with mild soap and water. Remove any

contaminated clothing. Seek medical attention.

Eyes: Flush eyes with water, blinking often for several minutes. Remove

contact lenses if present and easy to do. Continue rinsing. Seek medical

attention.

5. Firefighting Measures

Flammability: Highly flammable

Extinguishing Media: No special restrictions – use suitable extinguishing agent for

surrounding material and type of fire. Foam Carbon dioxide (CO2) Dry

powder

Spec. Fire Fighting Procedure: Use full-face, self-contained breathing apparatus with full protective

clothing to prevent contact with skin and eyes. See section 10 for

decomposition products.

6. Accidental Release Measures

If Material Is Released/Spilled: Wear appropriate respiratory and protective equipment specified in

special protection information. Isolate spill area and provide ventilation. Vacuum up spill using a high efficiency particulate absolute (HEPA) air filter and place in a closed container for disposal.

Take care not to raise dust.

Environmental Precautions: Isolate runoff to prevent environmental pollution.

7. Handling and Storage

Handling Conditions: Wash thoroughly after handling.

Storage Conditions: Store in a cool dry place in a tightly sealed container. Store apart from

materials and conditions listed in section 10.

Work/Hygienic Maintenance: Do not use tobacco or food in work area. Wash thoroughly before

eating and smoking. Do not blow dust off clothing or skin with

compressed air.

Ventilation: Provide sufficient ventilation to maintain concentration at or below

threshold limit.

8. Exposure Controls and Personal Protection

Permissible Exposure Limits: N/A
Threshold Limit Value: N/A

Special Equipment: None

Respiratory Protection:
Protective Gloves:

Dust Respirator
Rubber gloves

Check gloves prior to each use

Eye Protection: Safety glasses or goggles

Body Protection: Protective work clothing. Wear close-toed shoes and long

sleeves/pants.

9. Physical and Chemical Characteristics

Color Colorless, Light yellow

Form: Liquid

Odor:
Water Solubility:

N/A
Research

Boiling Point: 72-76 °C Melting Point: N/A

Flash Point: -19 °C (closed cup)

Autoignition Temperature: N/A

Density: 0.714 g/cm<sup>3</sup>
Molecular weight: 82.14 g/mol

10. Reactivity

Stability: Stable under recommended storage conditions

Reacts With: Oxidizing agents, Vapors may form explosive mixture with air.

Incompatible Conditions: Warming

Hazardous Decomposition Products: Carbon oxides, Metal oxide fume

11. Toxicological Information

Potential Health Effects:

Eyes: Causes serious eye irritation
Skin: Causes skin irritation
Ingestion: May cause irritation

Inhalation: May cause respiratory irritation

Chronic: N/A

Signs & Symptoms: N/A
Aggravated Medical Conditions: N/A

Median Lethal Dose: N/A

Carcinogen: N/A

	12. Ecological Information	
Aquatic Toxicity:	N/A	
Persistent Bioaccumulation Toxicity:	N/A	
Very Persistent, Very Bioaccumulative:	N/A	
Notes:	N/A	
	13. Disposal Considerations	

Dispose of in accordance with local, state, national, and international regulations.

14. Transportation Data

Hazardous: Hazardous for transportation.



Hazard Class: 3 Flammable Liquid

Packing Group: III UN Number: UN2458

Proper Shipping Name: Hexadiene (1,3-Hexadiene, mixture of cis and trans)

15. Regulatory Information

## 16. Other Information

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

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