

Page: 1 of 7

Revision: 06/26/2019 Supersedes Revision: 12/12/2012

according to Regulation (EC) No. 1907/2006 as amended by (EC) No. 2015/830 and US OSHA HCS 2015

Section 1. Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product Code: 9000313Product Name: 7(Z)-TricoseneSynonyms: 7Z-tricosene;

1.2 Relevant identified uses of the substance or mixture and uses advised against:

Relevant identified uses: For research use only, not for human or veterinary use.

1.3 Details of the Supplier of the Safety Data Sheet:

Company Name: Cayman Chemical Company

1180 E. Ellsworth Rd. Ann Arbor, MI 48108

Web site address: www.caymanchem.com

Information: Cayman Chemical Company +1 (734)971-3335

1.4 Emergency telephone number:

Emergency Contact: CHEMTREC Within USA and Canada: +1 (800)424-9300

CHEMTREC Outside USA and Canada: +1 (703)527-3887

Section 2. Hazards Identification

2.1 Classification of the Substance or Mixture:

Flammable Liquids, Category 2

Skin Corrosion/Irritation, Category 2

Toxic To Reproduction, Category 2

Specific Target Organ Toxicity (single exposure), Category 3

Specific Target Organ Toxicity (repeated exposure), Category 2

Aspiration Toxicity, Category 1

Aquatic Toxicity (Chronic), Category 2

2.2 Label Elements:









GHS Signal Word: Danger

GHS Hazard Phrases:

H225: Highly flammable liquid and vapor.

H304: May be fatal if swallowed and enters airways.

H315: Causes skin irritation.

H336: May cause drowsiness or dizziness.

H361: Suspected of damaging fertility or the unborn child.

H373: May cause damage to {organs} through prolonged or repeated exposure.

H411: Toxic to aquatic life with long lasting effects.

GHS Precaution Phrases:

P201: Obtain special instructions before use.

P202: Do not handle until all safety precautions have been read and understood.

P210: Keep away from {heat/sparks/open flames/hot surfaces}. - No smoking.

P260: Do not breathe {dust/fume/gas/mist/vapors/spray}.

P264: Wash {hands} thoroughly after handling.

P273: Avoid release to the environment.

P280: Wear {protective gloves/protective clothing/eye protection/face protection}.

Page: 2 of 7

Revision: 06/26/2019 Supersedes Revision: 12/12/2012

GHS Response Phrases:

P301+310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P302+352: IF ON SKIN: Wash with plenty of soap and water.

P303+361+353: IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with

water/shower.

P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P308+313: IF exposed or concerned: Get medical attention/advice.

P312: Call a POISON CENTER or doctor/physician if you feel unwell.

P314: Get medical attention/advice if you feel unwell.

P331: Do NOT induce vomiting.

P332+313: If skin irritation occurs, get medical advice/attention.

P362+364: Take off contaminated clothing and wash it before reuse.

P391: Collect spillage.

GHS Storage and Disposal Phrases:

Please refer to Section 7 for Storage and Section 13 for Disposal information.

2.3 Adverse Human Health Aspiration hazard if swallowed-may be fatal if enters lungs, will cause damage.

Effects and Symptoms: Causes skin irritation.

Material may be irritating to the mucous membranes and upper respiratory tract.

May be fatal if swallowed and enters airways.

May be harmful by inhalation, ingestion, or skin absorption.

May cause drowsiness or dizziness.

May cause damage to organs through prolonged or repeated exposure.

May cause eye or respiratory system irritation.

Suspected of damaging fertility or the unborn child.

Toxic to aquatic life with long lasting effects.

To the best of our knowledge, the toxicological properties have not been thoroughly investigated.

Section 3. Composition/Information on Ingredients

CAS#/ RTECS#	Hazardous Components (Chemical Name)/ REACH Registration No.	Concentration	EC No./ EC Index No.	GHS Classification
52078-42-9 NA	7(Z)-Tricosene	1.0 %	NA NA	No data available.
110-54-3 MN9275000	n-Hexane 01-2119480412-44	99.0 %	203-777-6 601-037-00-0	Flam. Liq. 2: H225 Asp. Toxic. 1: H304 Skin Corr. 2: H315 STOT (SE) 3: H336 Toxic Repro. 2: H361f STOT (RE) 2: H373 Aquatic (C) 2: H411



SAFETY DATA SHEET

7(**Z**)-Tricosene

Revision: 06/26/2019

Page: 3 of 7

Supersedes Revision: 12/12/2012

Section 4. First Aid Measures

4.1 **Description of First Aid**

Measures:

In Case of Inhalation: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel.

Get immediate medical attention.

In Case of Skin Contact: Immediately wash skin with soap and plenty of water for at least 20 minutes. Remove contaminated

clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

In Case of Eye Contact: Hold eyelids apart and flush eyes with plenty of water for at least 20 minutes. Have eyes examined

and tested by medical personnel.

Wash out mouth with water provided person is conscious. Never give anything by mouth to an In Case of Ingestion:

unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by

medical personnel.

4.2 Important Symptoms and Eye contact may cause: redness, blurred vision, or tearing.

Effects, Both Acute and

Ingestion may cause: chemical pneumonitis, chest pain, CNS depression, dizziness, drowsiness, gastrointestinal discomfort, giddiness, headache, lung irritation, muscle weakness, nausea, numb

extremities, pulmonary edema, slowed reaction time, slurred speech, and unconsciousness.

Prolonged or repeated skin contact may cause dermatitis, dryness, or cracking.

Section 5. Fire Fighting Measures

5.1 Suitable Extinguishing Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.

Media: Use water spray to cool fire-exposed containers.

Unsuitable Extinguishing A solid water stream may be inefficient.

Delayed:

5.2 Flammable Properties andCan release vapors that form explosive mixtures at temperatures at or above the flash point.

Hazards: Container explosion may occur under fire conditions.

Emits toxic fumes under fire conditions.

Sensitive to static discharge.

Vapors can travel to a source of ignition and flash back.

No data available.

-21.70 C Flash Pt:

LEL: 1.1% **Explosive Limits:** at 25.0 C UEL: 7.5% at 25.0 C

225.00 C **Autoignition Pt:**

5.3 Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or

equivalent), and full protective gear to prevent contact with skin and eyes.

Note: Flammable as diluted in n-hexane.

Section 6. Accidental Release Measures

6.1 **Protective Precautions,** Avoid breathing vapors and provide adequate ventilation.

Protective Equipment and As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator,

and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves). Take **Emergency Procedures:**

steps to avoid release into the environment, if safe to do so.

6.2 Take steps to avoid release into the environment, if safe to do so. **Environmental**

Precautions:

6.3 Methods and Material For Contain spill and collect, as appropriate.

Containment and Cleaning Transfer to a chemical waste container for disposal in accordance with local regulations.

Up:



Page: 4 of 7

Revision: 06/26/2019 Supersedes Revision: 12/12/2012

Section 7. Handling and Storage

7.1 Precautions To Be Taken Avoid breathing dust/fume/gas/mist/vapours/spray.

in Handling: Avoid prolonged or repeated exposure.

Keep away from sources of ignition.

Take precautionary measures against static discharge.

7.2 Precautions To Be Taken Keep away from heat, sparks, and flame.

in Storing: Keep container tightly closed.

Store in accordance with information listed on the product insert.

Section 8. Exposure Controls/Personal Protection

8.1 Exposure Parameters:

CAS#	Chemical Name	Jurisdiction	Recommended Exposure Limits	Notations
110-54-3	54-3 n-Hexane ACGIH TLV TLV: 50 ppm		TLV: 50 ppm	
		Europe	TWA: 72 mg/m3 (20 ppm)	
	France VL TWA: 72 mg/m3 (20 ppm)			
		OSHA PELs	PEL: 500 ppm	
		Britain EH40	TWA: 72 mg/m3 (20 ppm)	
			STEL: ()	

8.2 Exposure Controls:

8.2.1 Engineering Controls Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne

(Ventilation etc.): levels below recommended exposure limits.

8.2.2 Personal protection equipment:

Eye Protection: Safety glasses

Protective Gloves: Compatible chemical-resistant gloves

Other Protective Clothing: Lab coat

Respiratory Equipment NIOSH approved respirator, as conditions warrant.

(Specify Type):

Work/Hygienic/Maintenan Do not take internally.

ce Practices: Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower.

Wash thoroughly after handling.

No data available.

Section 9. Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

Physical States: [] Gas [X] Liquid [] Solid

Appearance and Odor: A solution in hexane

pH: No data.

Melting Point: No data.

Boiling Point: No data.

Flash Pt: -21.70 C

Evaporation Rate: No data.

Flammability (solid, gas): No data available.

Explosive Limits: LEL: 1.1% at 25.0 C UEL: 7.5% at 25.0 C

Vapor Pressure (vs. Air or mm 124 MM_HG at 20.0 C

Hg):

Vapor Density (vs. Air = 1): No data.



Page: 5 of 7

Revision: 06/26/2019 Supersedes Revision: 12/12/2012

Specific Gravity (Water = 1): No data.

Solubility in Water: No data.

Octanol/Water Partition No data.

Coefficient:

Autoignition Pt: 225.00 C

Decomposition Temperature: No data.

Viscosity: No data.

9.2 Other Information

Percent Volatile: No data.

Molecular Formula & Weight: C23H46 322.6

Section 10. Stability and Reactivity

10.1 Reactivity: No data available.

10.2 Stability: Unstable [] Stable [X]

10.3 Stability Note(s): Stable if stored in accordance with information listed on the product insert.

Polymerization: Will occur [] Will not occur [X]

10.4 Conditions To Avoid: heat, flames, and sparks

10.5 Incompatibility - Materials oxidizing agents

To Avoid:

10.6 Hazardous carbon dioxide

Decomposition or

carbon monoxide

Byproducts:

Section 11. Toxicological Information

11.1 Information on The toxicological effects of this product have not been thoroughly studied.

Toxicological Effects: Hexane - Toxicity Data: Oral LD50 (rat): 15,840 mg/kg; Inhalation TCLO (human): 5,400 mg/m3

(10m); Inhalation LC50 (rat): 48,000 ppm (4h);

Hexane - Irritation Data: Eyes (rabbit): 10 mg mild; Intraperitoneal LDLO (rat): 9100 mg/kg;

Chronic Toxicological

Effects:

Hexane - Investigated as a mutagen, primary irritant, reproductive effector, and tumorigen.

Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here.

See actual entry in RTECS for complete information.

Hexane RTECS Number: MN9275000

Carcinogenicity: NTP? No IARC Monographs? No OSHA Regulated? No

CAS#	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
52078-42-9	7(Z)-Tricosene	n.a.	n.a.	n.a.	n.a.
110-54-3	n-Hexane	n.a.	n.a.	n.a.	n.a.

Section 12. Ecological Information

12.1 Toxicity: Avoid release into the environment.

Runoff from fire control or dilution water may cause pollution.

12.2 Persistence and No data available.

Degradability:

12.3 Bioaccumulative No data available.

Potential:

12.4 Mobility in Soil: No data available.

12.5 Results of PBT and vPvB No data available.

assessment:



Page: 6 of 7

Revision: 06/26/2019 Supersedes Revision: 12/12/2012

12.6 Other adverse effects: No data available.

Section 13. Disposal Considerations

13.1 Waste Disposal Method: Dispose in accordance with local, state, and federal regulations.

Section 14. Transport Information

14.1 LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Hexanes Solution

DOT Hazard Class: 3 FLAMMABLE LIQUID

UN/NA Number: UN1208 Packing Group: II



14.1 LAND TRANSPORT (European ADR/RID):

ADR/RID Shipping Name: Hexanes Solution

UN Number: 1208 Packing Group: II

Hazard Class: 3 - FLAMMABLE LIQUID

14.3 AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: Hexanes Solution

UN Number: 1208 Packing Group: || Hazard Class: 3 - FLAMMABLE LIQUID | IATA Classification: 3

Additional Transport Transport in accordance with local, state, and federal regulations.

Information: When sold in quantities of less than or equal to 1 mL, or 1 g, with an Excepted Quantity Code of

E1, E2, E4, or E5, this item meets the De Minimis Quantities exemption, per IATA 2.6.10. Therefore packaging does not have to be labeled as Dangerous Goods/Excepted Quantity.

Section 15. Regulatory Information

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS#	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
52078-42-9	7(Z)-Tricosene	No	No	No
110-54-3	n-Hexane	No	Yes 5000 LB	Yes
CAS#	Hazardous Components (Chemical Name)	Other US EPA or State Lists		

CAS#	Hazardous Components (Chemical Name)	Other US EPA or State Lists
52078-42-9	7(Z)-Tricosene	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No
		PROP.00. NO
110-54-3	n-Hexane	CAA HAP,ODC: HAP: VHAP; CWA NPDES: No; TSCA: Yes -
		Inventory; CA PROP.65: Yes: RTox(M)

Regulatory Information This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC)

Statement: No.1272/2008.



Page: 7 of 7

Revision: 06/26/2019 Supersedes Revision: 12/12/2012

Section 16. Other Information

06/26/2019 Revision Date:

Additional Information About

This Product:

No data available.

Company Policy or Disclaimer: DISCLAIMER: This information is believed to be accurate and represents the best information

> currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for

their particular purposes.