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#### **1** Identification

- · Product identifier
- · Trade name: Desmosteryl Linoleate
- · Article number: 35423
- Application of the substance / the mixture This product is for research use - Not for human or veterinary diagnostic or therapeutic use. It is the responsibility of the purchaser to determine suitability for other applications.
- · Details of the supplier of the safety data sheet Manufacturer/Supplier: Cayman Chemical Co. 1180 E. Ellsworth Rd. Ann Arbor, MI 48108 USA
- · Information department: Product safety department
- Emergency telephone number: During normal opening times: +1 (734) 971-3335 US/CĂNADA: 800-424-9300 Outside US/CANADA: 703-741-5970

### 2 Hazard(s) identification

· Classification o	of the substance or mixture	
GHS0	2 Flame	
Flam. Liq. 2	H225 Highly flammable liquid and vapor.	
GHS0	3 Health hazard	
Asp. Tox. 1	H304 May be fatal if swallowed and enters airways.	
GHS0	9 Environment	
Aquatic Acute 1	H400 Very toxic to aquatic life.	
Aquatic Chronic	1 H410 Very toxic to aquatic life with long lasting effects.	(Contd. on page 2)

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GHS07	
Skin Irrit. 2	H315 Causes skin irritation.
STOT SE 3	H336 May cause drowsiness or dizziness.
· Label elements	
· GHS label eleme	nts
	ssified and labeled according to the Globally Harmonized System (GHS).
Hazard pictogram	
• • • • • • • • • • • • • • • • • • •	
<u> </u>	
GHS02 GHS07	GHS08 GHS09
· Signal word Dang	ger
· Hazard-determin	ing components of labeling:
Heptane	
· Hazard statemen	its
	nable liquid and vapor.
H315 Causes skir	• •
	drowsiness or dizziness.
	l if swallowed and enters airways.
H400 Very toxic to	
	o aquatic life with long lasting effects.
· Precautionary st	
P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.
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 dust/fume/gas/mist/vapors/spray
P264	Wash thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280 P301+P310	Wear protective gloves/protective clothing/eye protection/face protection. If swallowed: Immediately call a poison center/doctor.
P321	Specific treatment (see on this label).
P331	Do NOT induce vomiting.
	B If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with
	water/shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312	Call a poison center/doctor if you feel unwell.
P362+P364	Take off contaminated clothing and wash it before reuse.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P370+P378	In case of fire: Use CO2, powder or water spray to extinguish.
P391	Collect spillage.
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.

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99.9%

0.1%

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· Classification system:

· NFPA ratings (scale 0 - 4)

Health = 1 Fire = 3 Reactivity = 0

#### · HMIS-ratings (scale 0 - 4)

HEALTH1Health = 1FIRE3Fire = 3REACTIVITY 0Reactivity = 0

- · Other hazards
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.

### **3 Composition/information on ingredients**

· Chemical characterization: Mixtures

· Description: Mixture of the substances listed below with nonhazardous additions.

#### · Dangerous components:

CAS: 142-82-5 Heptane RTECS: MI7700000

· Other ingredients

**Desmosteryl Linoleate** 

### **4 First-aid measures**

- Description of first aid measures
- General information: Immediately remove any clothing soiled by the product.
- After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: If symptoms persist consult doctor.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed

May cause anemia, cough, CNS depression, drowsiness, headache, heart damage, lassitude (weakness, exhaustion), liver damage, narcosis, reproductive effects, teratogenic effects. No further relevant information available.

• **Indication of any immediate medical attention and special treatment needed** No further relevant information available.

### **5 Fire-fighting measures**

- · Extinguishing media
- Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. • For safety reasons unsuitable extinguishing agents: Water with full jet

• Special hazards arising from the substance or mixture No further relevant information available.

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#### · Advice for firefighters

• Protective equipment: No special measures required.

#### 6 Accidental release measures

• Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.

Environmental precautions:
 Do not allow product to reach sewage system or any water course.
 Inform respective authorities in case of seepage into water course or sewage system.
 Do not allow to enter sewers/ surface or ground water.

 Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.
 Reference to other sections

See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

#### Protective Action Criteria for Chemicals

· PAC-1:	
142-82-5 Heptane	500 ppm
· PAC-2:	
142-82-5 Heptane	830 ppm
· PAC-3:	
142-82-5 Heptane	5000* ppm

#### 7 Handling and storage

- · Handling:
- · Precautions for safe handling
- Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.

· Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: Store in a cool location.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions:
- Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

• Specific end use(s) No further relevant information available.

#### 8 Exposure controls/personal protection

· Additional information about design of technical systems: No further data; see item 7.

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	rol parameters
	ponents with limit values that require monitoring at the workplace:
	32-5 Heptane
	Long-term value: 2000 mg/m³, 500 ppm
REL	Long-term value: 350 mg/m <sup>3</sup> , 85 ppm
	Ceiling limit value: 1800* mg/m³, 440* ppm *15-min
тιν	Short-term value: 500 ppm
	Long-term value: 400 ppm
Addit	tional information: The lists that were valid during the creation were used as basis.
Expo	sure controls
Perso	onal protective equipment:
	ral protective and hygienic measures:
	away from foodstuffs, beverages and feed.
	idiately remove all soiled and contaminated clothing. In hands before breaks and at the end of work.
	I contact with the skin.
	contact with the eyes and skin.
Breat	thing equipment:
	se of brief exposure or low pollution use respiratory filter device. In case of intensive or long
	sure use respiratory protective device that is independent of circulating air.
ll.	
N.Y.	Protective gloves
	love material has to be impermeable and resistant to the product/ the substance/ the preparation
	to missing tests no recommendation to the glove material can be given for the product/ t aration/ the chemical mixture.
	ration/ the chemical mixture. ction of the glove material on consideration of the penetration times, rates of diffusion and t
	adation
	rial of gloves
	election of the suitable gloves does not only depend on the material, but also on further marks
	ty and varies from manufacturer to manufacturer. As the product is a preparation of seve
	ances, the resistance of the glove material can not be calculated in advance and has therefore ecked prior to the application.
	tration time of glove material
	exact break through time has to be found out by the manufacturer of the protective gloves and h
	observed.
Eye p	protection:
	Tightly sealed goggles
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Information on basic physical and	chemical properties
General Information	r -r
Appearance:	
Form:	Liquid
Color:	Colorless
· Odor:	Nearly odorless
· Structural Formula · Molecular Weight	C45H74O2 647.1 g/mol
· Odor threshold:	Not determined.
Formulation	A solution in Heptane
pH-value:	Not determined.
Change in condition	
Melting point/Melting range:	-90.5 °C (-130.9 °F)
Boiling point/Boiling range:	98 °C (208.4 °F)
Flash point:	-4 °C (24.8 °F)
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	215 °C (419 °F)
Decomposition temperature:	Not determined.
Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive ai vapor mixtures are possible.
Explosion limits:	
Lower:	1.1 Vol %
Upper:	6.7 Vol %
· Vapor pressure at 20 °C (68 °F):	48 hPa (36 mm Hg)
<sup>·</sup> Density at 20 °C (68 °F):	0.68 g/cm³ (5.6746 lbs/gal)
Relative density	Not determined.
Vapor density	Not determined.
· Evaporation rate	Not determined.
Solubility in / Miscibility with	0.05 - //
Water at 20 °C (68 °F):	0.05 g/l
Partition coefficient (n-octanol/wat	ter): Not determined.
Viscosity:	
Dynamic at 20 °C (68 °F):	0.4 mPas
Kinematic: SOLUBILITY	Not determined.
	1 mg/ml Heptane
Solvent content:	
Organic solvents:	99.9 %
VOC content:	99.90 % 999.0 a/l / 8.34 lb/aal
Calida content:	999.0 g/l / 8.34 lb/gal
Solids content:	0.1 %

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• Other information

No further relevant information available.

#### **10 Stability and reactivity**

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- · Possibility of hazardous reactions No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

#### **11 Toxicological information**

· Information on toxicological effects

• Acute toxicity:

#### · LD/LC50 values that are relevant for classification:

142-82-5 Heptane

Inhalative LC50/4 h 48,000 mg/m<sup>3</sup> (rat)

TCLO 1,000 mg/m<sup>3</sup>/6m (hmn)

LC50 103 g/m<sup>3</sup>/4h (rat)

#### Primary irritant effect:

- on the skin: Irritant to skin and mucous membranes.
- on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.
- · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Irritant

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

#### · NTP (National Toxicology Program)

None of the ingredients is listed.

#### · OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

## **12 Ecological information**

· Toxicity

- · Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.

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- Ecotoxical effects: • Remark: Very toxic for fish
- · Additional ecological information:
- · General notes:

Water hazard class 2 (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground. Also poisonous for fish and plankton in water bodies.

Also poisonous for fish and plankton in water bodie Verv toxic for aquatic organisms

- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- Other adverse effects No further relevant information available.

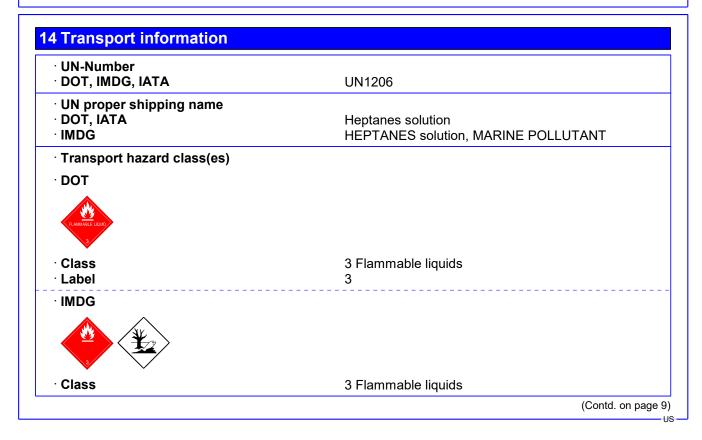
#### **13 Disposal considerations**

· Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.



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<sup>.</sup> Label	3
· Class · Label	3 Flammable liquids 3
<ul> <li>Packing group</li> <li>DOT, IMDG, IATA</li> </ul>	П
<ul> <li>Environmental hazards:</li> <li>Marine pollutant:</li> </ul>	Product contains environmentally hazardous substances: Heptane Symbol (fish and tree)
<ul> <li>Special precautions for user</li> <li>Hazard identification number (Kemler code):</li> <li>EMS Number:</li> <li>Stowage Category</li> </ul>	Warning: Flammable liquids
<ul> <li>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</li> </ul>	Not applicable.
· Transport/Additional information:	
<ul> <li>DOT</li> <li>Quantity limitations</li> </ul>	On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L
<ul> <li>IMDG</li> <li>Limited quantities (LQ)</li> <li>Excepted quantities (EQ)</li> </ul>	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· IATA · Remarks:	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.
· UN "Model Regulation":	UN 1206 HEPTANES SOLUTION, 3, II ENVIRONMENTALLY HAZARDOUS

## **15 Regulatory information**

• Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

· Sara

## · Section 355 (extremely hazardous substances):

None of the ingredients is listed.

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Section 313 (Specific toxic chemical listings): None of the ingredients is listed. TSCA (Toxic Substances Control Act): 142-82-5 Heptane Hazardous Air Pollutants None of the ingredients is listed. Proposition 65 Chemicals known to cause cancer: None of the ingredients is listed. Chemicals known to cause reproductive toxicity for females: None of the ingredients is listed. Chemicals known to cause reproductive toxicity for males: None of the ingredients is listed. Chemicals known to cause developmental toxicity: None of the ingredients is listed. Chemicals known to cause developmental toxicity: None of the ingredients is listed. Chemicals known to cause developmental toxicity: None of the ingredients is listed. Carcinogenic categories EPA (Environmental Protection Agency) 142-82-5 Heptane TLV (Threshold Limit Value) None of the ingredients is listed. NIOSH-Ca (National Institute for Occupational Safety and Health)	l. from pag
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TLV (Threshold Limit Value) None of the ingredients is listed.	
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NIOSH-Ca (National Institute for Occupational Safety and Health)	
· · · ·	
None of the ingredients is listed.	

### **16 Other information**

All chemicals may pose unknown hazards and should be used with caution. This SDS applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. Cayman Chemical Company assumes no responsibility for incidental or consequential damages, including lost profits, arising from the use of these data. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Cayman Chemical Company assumes no responsibility for the completeness or accuracy of the information contained herein.

- · Department issuing SDS: Environment protection department.
- · Contact: -
- · Date of preparation / last revision 10/20/2021 / -
- Abbreviations and acronyms:
   IMDG: International Maritime Code for Dangerous Goods
   DOT: US Department of Transportation
   IATA: International Air Transport Association
   EINECS: European Inventory of Existing Commercial Chemical Substances
   ELINCS: European List of Notified Chemical Substances
   CAS: Chemical Abstracts Service (division of the American Chemical Society)
   NFPA: National Fire Protection Association (USA)
   HMIS: Hazardous Materials Identification System (USA)
   VOC: Volatile Organic Compounds (USA, EU)
   LC50: Lethal concentration, 50 percent
   LD50: Lethal dose, 50 percent
   PBT: Persistent, Bioaccumulative and Toxic

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N C T P R F S S A	PvB: very Persistent and very Bioaccumulative IIOSH: National Institute for Occupational Safety DSHA: Occupational Safety & Health 'LV: Threshold Limit Value 'EL: Permissible Exposure Limit 'EL: Recommended Exposure Limit 'Iam. Liq. 2: Flammable liquids – Category 2 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Stor SE 3: Specific target organ toxicity (single exposure) – Category 3 (sp. Tox. 1: Aspiration hazard – Category 1 (suratic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1	(Contd. from page 10)
A	sp. Tox. 1: Aspiration hazard – Category 1	
	quatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1	
A	quatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1	US-