

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to

Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 30/03/2011 Revision date: 11/03/2019 Supersedes: 30/03/2011 Version: 2.0

ULM-2424

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Substance

Substance name : HEPTACHLOR UNLABELED

 EC Index-No.
 : 602-046-00-2

 EC-No.
 : 200-962-3

 CAS-No.
 : 76-44-8

 Product code
 : ULM-2424

 Formula
 : C10H5C17

Synonyms : 1,4,5,6,7,8,8-Heptachloro-3a,4,7,7a-tetrahydro-4,7-methanoindene

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

### 1.2.1. Relevant identified uses

Main use category : Professional use

Industrial/Professional use spec : For professional use only

#### 1.2.2. Uses advised against

No additional information available

# 1.3. Details of the supplier of the safety data sheet

Cambridge Isotope Laboratories, Inc.

50 Frontage Road Andover, MA 01810

USA

USA: 1-800-322-1174 Int: 1-978-749-8000 <a href="mailto:cilsales@isotope.com">cilsales@isotope.com</a> www.isotope.com

### **Emergency telephone number**

Emergency numbers:

Chemtrec: 1-800-424-9300 (24 hours) International: 1-703-741-5970 (24 hours)

### **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture

# Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute Tox. 2 (Oral) H300
Acute Tox. 2 (Dermal) H310
Carc. 2 H351
Aquatic Chronic 1 H410

Full text of hazard classes and H-statements : see section 16

### Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

T+; R27/28 N; R50/53 Carc.Cat.3; R40

Full text of R-phrases: see section 16

### **GHS-US classification**

Acute Tox. 2 (Oral) H300 Acute Tox. 1 (Dermal) H310 Carc. 2 H351 Aquatic Chronic 1 H410

Full text of H statements : see section 16

### Adverse physicochemical, human health and environmental effects

No additional information available

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#### 2.2. Label elements

### Labeling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)







GHS08

GHS

GHS09

Signal word (CLP) : Danger

Hazard statements (CLP) : H300+H310 - Fatal if swallowed or in contact with skin

H351 - Suspected of causing cancer (in contact with skin, if inhaled, if swallowed)

H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements (CLP) : P264 - Wash hands, forearms and face thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

P273 - Avoid release to the environment.

P280 - Wear protective gloves/protective clothing/eye protection/face protection. P301+P310 - IF SWALLOWED: Immediately call a doctor, a POISON CENTER. P302+P352 - IF ON SKIN: Wash with plenty of soap and water.

P308+P313 - IF exposed or concerned: Get medical advice/attention. P310 - Immediately call a doctor, a POISON CENTER.

### **GHS-US** labeling

Hazard pictograms (GHS-US)







HS08

GHS06

GHS09

Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : H300+H310 - Fatal if swallowed or in contact with skin

H351 - Suspected of causing cancer (Dermal, Inhalation, oral)

H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements (GHS-US) : P201 - Obtain special instructions before use.

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

P262 - Do not get in eyes, on skin, or on clothing. P264 - Wash Both hands thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

P273 - Avoid release to the environment.

P280 - Wear eye protection, face protection, protective clothing, protective gloves.

P301+P310 - If swallowed: Immediately call a doctor, a POISON CENTER

P302+P352 - If on skin: Wash with plenty of water

P308+P313 - If exposed or concerned: Get medical advice/attention.

P310 - Immediately call a doctor, a POISON CENTER

P321 - Specific treatment (see Hazardous component(s) for labeling on this label)
P322 - Specific treatment (see Hazardous component(s) for labeling on this label)

P330 - Rinse mouth.

P361+P364 - Take off immediately all contaminated clothing and wash it before reuse.

P391 - Collect spillage. P405 - Store locked up.

P501 - Dispose of contents/container to hazardous or special waste collection point, in

accordance with local, regional, national and/or international regulation

### 2.3. Other hazards

No additional information available

# **SECTION 3: Composition/Information on ingredients**

# 3.1. Substances

| Name                 | Product identifier   | %   | Classification according to Directive 67/548/EEC |
|----------------------|--|-----|--|
| HEPTACHLOR UNLABELED | (CAS-No.) 76-44-8<br>(EC-No.) 200-962-3<br>(EC Index-No.) 602-046-00-2 | 100 | T+; R27/28<br>N; R50/53<br>Carc.Cat.3; R40       |

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| Name                 | Product identifier   | %   | Classification according to Regulation (EC) No. 1272/2008 [CLP]                                      |
|----------------------|--|-----|--|
| HEPTACHLOR UNLABELED | (CAS-No.) 76-44-8<br>(EC-No.) 200-962-3<br>(EC Index-No.) 602-046-00-2 | 100 | Acute Tox. 2 (Oral), H300<br>Acute Tox. 2 (Dermal), H310<br>Carc. 2, H351<br>Aquatic Chronic 1, H410 |

Full text of R- and H- phrases: see section 16

| Name                                    | Product identifier | %   | GHS-US classification  |
|---|--------------------|-----|--|
| HEPTACHLOR UNLABELED (Main constituent) | (CAS-No.) 76-44-8  | 100 | Acute Tox. 2 (Oral), H300<br>Acute Tox. 1 (Dermal), H310<br>Carc. 2, H351<br>Aquatic Chronic 1, H410 |

Full text of H-phrases: see section 16

### 3.2. Mixtures

Not applicable

### **SECTION 4: First aid measures**

# 4.1. Description of first aid measures

First-aid measures general : If you feel unwell, seek medical advice (show the label where possible). Evacuate danger area.

First-aid measures after inhalation : When symptoms occur: go into open air and ventilate suspected area. If not breathing give

artificial respiration. Get medical advice/attention.

First-aid measures after skin contact : Wash with plenty of soap and water. and soap. Get immediate medical advice/attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes.

First-aid measures after ingestion : Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get

medical advice/attention.

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation : May be harmful if inhaled. May cause respiratory irritation.

Symptoms/effects after skin contact : Fatal in contact with skin. Symptoms/effects after eye contact : May cause eye irritation. Symptoms/effects after ingestion : Fatal if swallowed. Chronic symptoms : Suspected carcinogen.

### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

### **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).

# 5.2. Special hazards arising from the substance or mixture

No additional information available

### 5.3. Advice for firefighters

Firefighting instructions : Fight fire with normal precautions from a reasonable distance. Wear a self contained breathing

apparatus. Do not enter fire area without proper protective equipment, including respiratory

protection.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

Wear recommended personal protective equipment.

# **SECTION 6: Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

### 6.1.1. For non-emergency personnel

Emergency procedures : Avoid breathing vapors, mist, gas. Avoid dust formation.

### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection"."

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Do not allow to enter drains or water courses. Avoid release to the environment.

# 6.3. Methods and material for containment and cleaning up

For containment : Take up mechanically (sweeping, shoveling) and collect in suitable container for disposal.

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Methods for cleaning up : This material and its container must be disposed of in a safe way, and as per local legislation.

#### Reference to other sections

For further information refer to section 13.

### SECTION 7: Handling and storage

### **Precautions for safe handling**

Precautions for safe handling : Provide adequate ventilation to minimize dust and/or vapor concentrations.

: Wash hands and other exposed areas with mild soap and water before eating, drinking or Hygiene measures

smoking and when leaving work. Handle in accordance with good industrial hygiene and safety

practice.

### Conditions for safe storage, including any incompatibilities

: Store in a well-ventilated place. Keep container tightly closed. Technical measures Storage conditions : Store at room temperature away from light and moisture.

#### 7.3. Specific end use(s)

No additional information available

### SECTION 8: Exposure controls/personal protection

#### 8.1. **Control parameters**

| HEPTACHLOR UNLABELED (76-44-8) |                         |   |  |
|--------------------------------|-------------------------|---|--|
| USA NIOSH                      | NIOSH REL (TWA) (mg/m³) | 0.5 mg/m³ USA. NIOSH Recommended Exposure Limits  |  |
| USA NIOSH                      | Remark (NIOSH)          | Potential Occupational Carcinogen. See Appendix A. Potential for dermal absorption.   |  |
| USA OSHA                       | OSHA PEL (TWA) (mg/m³)  | 0.5 mg/m³ USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants. California permissible exposure limits for chemical contaminants (Title 8, Article 107) |  |
| USA OSHA                       | Remark (OSHA)           | Skin designation  |  |

### **Exposure controls**

Appropriate engineering controls : Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work.

Gloves. Protective clothing. Protective goggles. Self-contained breathing apparatus. Personal protective equipment









Materials for protective clothing : Wear suitable protective clothing and gloves Hand protection

Wear suitable protective clothing and gloves.

Eye protection : Wear eye protection. Chemical goggles or face shield with safety glasses.

Skin and body protection Wear suitable protective clothing, gloves and eye/face protection.

Respiratory protection : In case of inadequate ventilation wear respiratory protection. Approved supplied air respirator.

Environmental exposure controls : Avoid release to the environment.

# **SECTION 9: Physical and chemical properties**

# Information on basic physical and chemical properties

Physical state : Solid : Crystals **Appearance** Molecular mass : 373.3 g/mol Color : White

: No data available Odor Odor threshold No data available No data available pΗ Relative evaporation rate (butyl acetate=1) : No data available : No data available Melting point Freezing point No data available Boiling point : No data available Flash point : No data available

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: No data available Auto-ignition temperature Decomposition temperature No data available Flammability (solid, gas) : No data available Vapor pressure : No data available Relative vapor density at 20 °C No data available Relative density No data available : No data available Solubility Log Pow : No data available Log Kow No data available Viscosity, kinematic No data available : No data available Viscosity, dynamic Explosive properties : No data available : No data available Oxidizing properties **Explosion limits** : No data available

### Other information

No additional information available

# **SECTION 10: Stability and reactivity**

#### Reactivity

No additional information available

### **Chemical stability**

Stable if stored under recommended conditions.

#### Possibility of hazardous reactions

No additional information available

#### **Conditions to avoid**

No additional information available

#### 10.5. Incompatible materials

Strong oxidizing agents.

#### 10.6. **Hazardous decomposition products**

Carbon oxides (CO, CO2). Hydrogen chloride gas.

# **SECTION 11: Toxicological information**

#### Information on toxicological effects 11.1.

Acute toxicity : Oral: Fatal if swallowed. Dermal: Fatal in contact with skin.

| HEPTACHLOR UNLABELED (76-44-8) |                          |
|--------------------------------|--------------------------|
| LD50 oral rat                  | 40 mg/kg                 |
| LD50 dermal rat                | 119 mg/kg                |
| ATE CLP (oral)                 | 40.000 mg/kg body weight |
| ATE CLP (dermal)               | 50.000 mg/kg body weight |

Skin corrosion/irritation : Not classified Serious eye damage/irritation Not classified Respiratory or skin sensitization Not classified Germ cell mutagenicity : Not classified

Carcinogenicity This product is or contains a component that has been reported to be possibly carcinogenic

based on its IARC, ACGIH, NTP, or EPA classification. Limited evidence of carcinogenicity in

animal studies

National Toxicology Program (NTP): Reasonably anticipated to be Human Carcinogen

: Not classified Reproductive toxicity Specific target organ toxicity - single exposure : Not classified Specific target organ toxicity - repeated : Not classified exposure

Aspiration hazard : Not classified

Potential Adverse human health effects and This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be symptoms construed as guaranteeing any specific property of the product.

IARC group

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Symptoms/effects after inhalation : May be harmful if inhaled. May cause respiratory irritation.

Symptoms/effects after skin contact : Fatal in contact with skin. Symptoms/effects after eye contact : May cause eye irritation. Symptoms/effects after ingestion : Fatal if swallowed. Chronic symptoms : Suspected carcinogen.

# **SECTION 12: Ecological information**

#### 12.1. Toxicity

Ecology - general : Very toxic to aquatic life with long lasting effects.

| HEPTACHLOR UNLABELED (76-44-8) |   |  |
|--------------------------------|---|--|
| LC50 fish 1                    | 0.007 mg/l Oncorhynchus mykiss (rainbow trout) - 96 h |  |
| EC50 Daphnia 1                 | 0.078 mg/l Daphnia magna (Water flea) - 48 h          |  |

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

| HEPTACHLOR UNLABELED (76-44-8)      |   |
|-------------------------------------|---|
| BCF fish 1                          | 0.00043 mg/l Pimephales promelas (fathead minnow) - 276 d |
| Bioconcentration factor (BCF REACH) | 23814   |

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

Other adverse effects : An environmental hazard cannot be excluded in the event of unprofessional handling or

disposal.

# **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

Regional legislation (waste) : Waste materials should be disposed of under conditions which meet Federal, State, and local

environmental control regulations.

Product/Packaging disposal recommendations : Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed

professional waste disposal service to dispose of this material.

Ecology - waste materials : Dispose of as unused product.

# **SECTION 14: Transport information**

In accordance with ADR / RID / IMDG / IATA / ADN

# 14.1. UN number

UN-No.(DOT) : 2811 DOT NA no. UN2811

### 14.2. UN proper shipping name

Proper Shipping Name (DOT) : Toxic solids, organic, n.o.s.

Class (DOT) : 6.1 - Class 6.1 - Poisonous materials 49 CFR 173.132

Hazard labels (DOT) : 6.1 - Poison

PDISON 6

DOT Symbols : G - Identifies PSN requiring a technical name

Packing group (DOT) : II - Medium Danger

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DOT Special Provisions (49 CFR 172.102)

: IB8 - Authorized IBCs: Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (11H1, 11H2, 21H1, 21H2, 31H1 and 31H2); Composite (11HZ1, 11HZ2, 21HZ1, 21HZ2, 31HZ1 and 31HZ2); Fiberboard (11G); Wooden (11C, 11D and 11F); Flexible (13H1, 13H2, 13H3, 13H4, 13H5, 13L1, 13L2, 13L3, 13L4, 13M1 or 13M2).

IP2 - When IBCs other than metal or rigid plastics IBCs are used, they must be offered for transportation in a closed freight container or a closed transport vehicle.

IP4 - Flexible, fiberboard or wooden IBCs must be sift-proof and water-resistant or be fitted with a sift-proof and water-resistant liner.

T3 - 2.65 178.274(d)(2) Normal..... 178.275(d)(2)

TP33 - The portable tank instruction assigned for this substance applies for granular and powdered solids and for solids which are filled and discharged at temperatures above their melting point which are cooled and transported as a solid mass. Solid substances transported or offered for transport above their melting point are authorized for transportation in portable tanks conforming to the provisions of portable tank instruction T4 for solid substances of packing group III or T7 for solid substances of packing group III or T7 for solid substances of packing group III, unless a tank with more stringent requirements for minimum shell thickness, maximum allowable working pressure, pressure-relief devices or bottom outlets are assigned in which case the more stringent tank instruction and special provisions shall apply. Filling limits must be in accordance with portable tank special provision TP3. Solids meeting the definition of an elevated temperature material must be transported in accordance with the applicable requirements of this subchapter.

DOT Packaging Exceptions (49 CFR 173.xxx) : 153
DOT Packaging Non Bulk (49 CFR 173.xxx) : 212
DOT Packaging Bulk (49 CFR 173.xxx) : 242
DOT RQ : 1 lbs
Marine pollutant : No



### 14.3. Additional information

Emergency Response Guide (ERG) Number : 154

Other information : No supplementary information available.

### **Overland transport**

Packing group (ADR) : II

Class (ADR) : 6.1 - Toxic substances

Hazard identification number (Kemler No.) : 60
Classification code (ADR) : T2

Hazard labels (ADR) : 6.1 - Toxic substances



Orange plates

60 2811

Tunnel restriction code (ADR) : D/E
Limited quantities (ADR) 500g
EAC : 2X
Excepted quantities (ADR) : E4

### Transport by sea

DOT Vessel Stowage Location : B - (i) The

: B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.

MFAG-No : 154

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#### Air transport

DOT Quantity Limitations Passenger aircraft/rail : 25 kg

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 100 kg

CFR 175.75)

Civil Aeronautics Law : Toxic and infectious substances/Toxic substances

### 14.4. Environmental hazards

Dangerous for the environment



Other information : No supplementary information available.

### 14.5. Special precautions for user

### 14.6. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

# **SECTION 15: Regulatory information**

### 15.1. US Federal regulations

| HEPTACHLOR UNLABELED (76-44-8)                     |   |  |
|--|---|--|
| SARA Section 302 Threshold Planning Quantity (TPQ) | Not subject to reporting requirements of the United States SARA Section 302 |  |
| SARA Section 311/312 Hazard Classes                | Immediate (acute) health hazard<br>Delayed (chronic) health hazard          |  |
| SARA Section 313 - Emission Reporting              | Subject to reporting requirements of the United States SARA Section 313     |  |

### 15.2. International regulations

# CANADA

### **HEPTACHLOR UNLABELED (76-44-8)**

Not listed on the Canadian DSL (Domestic Substances List)

### 15.2.1. National regulations

No additional information available

### 15.3. US State regulations

| HEPTACHLOR UNLABELED(76-44-8)                                    |  |
|--|--|
| U.S California - Proposition 65 - Carcinogens List               | Yes  |
| U.S California - Proposition 65 - Developmental Toxicity         | Yes  |
| U.S California - Proposition 65 - Reproductive Toxicity - Female | Yes  |
| U.S California - Proposition 65 - Reproductive Toxicity - Male   | Yes  |
| State or local regulations                                       | U.S Massachusetts - Right To Know List U.S Pennsylvania - RTK (Right to Know) List U.S New Jersey - Right to Know Hazardous Substance List |

# **SECTION 16: Other information**

Other information

: This product is not radioactive. The data given for this product are those of the corresponding unlabeled compound, unless specifically indicated otherwise. Health and safety data for labeled compounds are generally not available, but are assumed to be similar or identical to the corresponding unlabeled compound.

Full text of R-, H- and EUH-phrases:

| Acute Tox. 2 (Dermal) | Acute toxicity (dermal) Category 2 |
|-----------------------|------------------------------------|
| Acute Tox. 2 (Oral)   | Acute toxicity (oral) Category 2   |

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| Aquatic Chronic 1 | Hazardous to the aquatic environment - Chronic Hazard Category 1                                |
|-------------------|---|
| Carc. 2           | Carcinogenicity Category 2  |
| H300              | Fatal if swallowed  |
| H310              | Fatal in contact with skin  |
| H351              | Suspected of causing cancer   |
| H410              | Very toxic to aquatic life with long lasting effects  |
| R27/28            | Very toxic in contact with skin and if swallowed  |
| R40               | Limited evidence of a carcinogenic effect   |
| R50/53            | Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment |
| N                 | Dangerous for the environment   |
| T+                | Very toxic  |

NFPA health hazard : 3 - Materials that, under emergency conditions, can cause

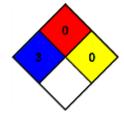
serious or permanent injury.

NFPA fire hazard : 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as

concrete, stone, and sand.

NFPA reactivity : 0 - Material that in themselves are normally stable, even

under fire conditions.



# **Hazard Rating**

Health : 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is

given

Flammability : 0 Minimal Hazard Physical : 0 Minimal Hazard

### CIL Substance SDS

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

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