SAFETY DATA SHEET

1. Identification

Product identifier Heptachlor epoxide (Isomer B)
Other means of identification
  Item N-12148
  Synonym(s) 2,3-epoxy-1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydroy-4,7-methanoindane
Recommended use For Laboratory Use Only
Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information
Manufacturer
  Company name Chem Service, Inc.
  Address 660 Tower Lane
          West Chester, PA 19380
          United States
  Telephone Toll Free 800-452-9994
          Direct 610-692-3026
  Website www.chemservice.com
  E-mail info@chemservice.com
  Emergency phone number Chemtrec US 800-424-9300
          Chemtrec outside US +1 703-527-3887

2. Hazard(s) identification

Physical hazards Not classified.
Health hazards
  Acute toxicity, oral Category 2
  Acute toxicity, dermal Category 2
  Carcinogenicity Category 2
  Reproductive toxicity Category 2
  Specific target organ toxicity, repeated exposure Category 2

Environmental hazards
  Hazardous to the aquatic environment, acute hazard Category 1
  Hazardous to the aquatic environment, long-term hazard Category 1

OSHA defined hazards Not classified.

Label elements

Signal word Danger
Hazard statement Fatal if swallowed. Fatal in contact with skin. Suspected of causing cancer. Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

Precautionary statement

Prevention Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.

Response If swallowed: Immediately call a poison center/doctor. If on skin: Wash with plenty of water. Immediately call a poison center/doctor. Specific treatment (see this label). Rinse mouth. Take off immediately all contaminated clothing and wash it before reuse. Collect spillage.

Storage Store locked up.
Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC) None known.
3. Composition/information on ingredients

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Common name and synonyms</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heptachlor epoxide (Isomer B)</td>
<td>2,3-epoxy-1,4,5,6,7,8-heptachloro-3a,4,7,7 a-tetrahydro-4,7-methanoindane</td>
<td>1024-57-3</td>
<td>100</td>
</tr>
</tbody>
</table>

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

**Inhalation**
Move to fresh air. Call a physician if symptoms develop or persist.

**Skin contact**
Take off immediately all contaminated clothing. IF ON SKIN: Gently wash with plenty of soap and water. Call a physician or poison control center immediately.

**Eye contact**
Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately.

**Ingestion**
Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

**Most important symptoms/effects, acute and delayed**
Prolonged exposure may cause chronic effects.

**Indication of immediate medical attention and special treatment needed**
Provide general supportive measures and treat symptomatically. In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

**General information**
Take off immediately all contaminated clothing. IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse. Discard any shoes or clothing items that cannot be decontaminated.

5. Fire-fighting measures

**Suitable extinguishing media**
Not available.

**Unsuitable extinguishing media**
Water.

**Specific hazards arising from the chemical**
Water reactive material.

**Special protective equipment and precautions for firefighters**
Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

**Fire-fighting equipment/instructions**
Do not get water inside container.

**Specific methods**
Use standard firefighting procedures and consider the hazards of other involved materials.

**General fire hazards**
No unusual fire or explosion hazards noted.

6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures**
Immediately evacuate personnel to safe areas. Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

**Methods and materials for containment and cleaning up**
Stop the flow of material, if this is without risk. Cover with DRY earth, DRY sand, or other non-combustible material followed with plastic sheet to minimize spreading or contact with rain. Do not get water on spilled substance or inside containers. Prevent entry into waterways, sewer, basements or confined areas. For waste disposal, see section 13 of the SDS.

**Environmental precautions**
Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.
7. Handling and storage

Precautions for safe handling
Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not allow water to get into container because of violent reaction and possible flash fire. Do not get this material in contact with eyes. Do not get this material in contact with skin. Do not taste or swallow. Avoid contact during pregnancy/while nursing. Avoid prolonged exposure. Do not get this material on clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. When using, do not eat, drink or smoke. Wash hands thoroughly after handling. Wash contaminated clothing before reuse. Avoid release to the environment. Do not empty into drains.

Conditions for safe storage, including any incompatibilities
Store locked up. Store in original tightly closed container. Keep container dry. Store away from incompatible materials (see Section 10 of the SDS). Never allow product to get in contact with water during storage. Store in a building without sprinklers.

8. Exposure controls/personal protection

Occupational exposure limits

<table>
<thead>
<tr>
<th>Material</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heptachlor epoxide (Isomer B) (CAS 1024-57-3)</td>
<td>PEL</td>
<td>0.5 mg/m³</td>
</tr>
</tbody>
</table>

US. ACGIH Threshold Limit Values

<table>
<thead>
<tr>
<th>Material</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heptachlor epoxide (Isomer B) (CAS 1024-57-3)</td>
<td>TWA</td>
<td>0.05 mg/m³</td>
</tr>
</tbody>
</table>

US. NIOSH: Pocket Guide to Chemical Hazards

<table>
<thead>
<tr>
<th>Material</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heptachlor epoxide (Isomer B) (CAS 1024-57-3)</td>
<td>TWA</td>
<td>0.5 mg/m³</td>
</tr>
</tbody>
</table>

Biological limit values
No biological exposure limits noted for the ingredient(s).

Exposure guidelines

US - California OELs: Skin designation
Heptachlor epoxide (Isomer B) (CAS 1024-57-3) Can be absorbed through the skin.

US - Minnesota Haz Subs: Skin designation applies
Heptachlor epoxide (Isomer B) (CAS 1024-57-3) Skin designation applies.

US - Tennessee OELs: Skin designation
Heptachlor epoxide (Isomer B) (CAS 1024-57-3) Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation
Heptachlor epoxide (Isomer B) (CAS 1024-57-3) Can be absorbed through the skin.

US NIOSH Pocket Guide to Chemical Hazards: Skin designation
Heptachlor epoxide (Isomer B) (CAS 1024-57-3) Can be absorbed through the skin.

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)
Heptachlor epoxide (Isomer B) (CAS 1024-57-3) Can be absorbed through the skin.

Appropriate engineering controls
Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

Eye/face protection
Use personal protective equipment as required. Wear eye/face protection.

Skin protection
Hand protection
Wear protective gloves.

Other
Wear appropriate chemical resistant clothing.

Respiratory protection
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Thermal hazards
Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations
When using, do not eat, drink or smoke. Do not get this material on clothing. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance
Physical state
Solid.
Form: Crystalline Solid
Color: White
Odor: Not available.
Odor threshold: Not available.
\( \text{pH} \): Not available.
Melting point/freezing point: 320 - 322.7 °F (160 - 161.5 °C)
Initial boiling point and boiling range: 293 °F (145 °C) 0.199984 kPa
Flash point: Not available.
Evaporation rate: Not available.
Flammability (solid, gas): Not available.
Upper/lower flammability or explosive limits
  Flammability limit - lower (%): Not available.
  Flammability limit - upper (%): Not available.
  Explosive limit - lower (%): Not available.
  Explosive limit - upper (%): Not available.
Vapor pressure: 0 kPa at 25 °C
Vapor density: Not available.
Relative density: Not available.
Solubility(ies)
  Solubility (water): 0.01 g/l
Partition coefficient (n-octanol/water): 5.4
Auto-ignition temperature: Not available.
Decomposition temperature: Not available.
Viscosity: Not available.
Other information
  Density: 1.5698 g/cm³ estimated
  Molecular formula: C₁₀-H₅-Cl₇-O
  Molecular weight: 389.4 g/mol
  Specific gravity: 1.57 at 9 °C

10. Stability and reactivity
Reactivity: The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability: Material reacts with water.
Possibility of hazardous reactions: Hazardous polymerization does not occur.
Conditions to avoid: Exposure to water vapor. Contact with incompatible materials.
Incompatible materials: Strong oxidizing agents.
Hazardous decomposition products: No hazardous decomposition products are known.

11. Toxicological information
Information on likely routes of exposure
  Ingestion: Fatal if swallowed.
  Inhalation: Prolonged inhalation may be harmful.
  Skin contact: Fatal in contact with skin.
  Eye contact: Direct contact with eyes may cause temporary irritation.
Symptoms related to the physical, chemical and toxicological characteristics
  Direct contact with eyes may cause temporary irritation.
Information on toxicological effects
  Acute toxicity: Fatal in contact with skin. Fatal if swallowed.
Test Results

<table>
<thead>
<tr>
<th>Product</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heptachlor epoxide (Isomer B) (CAS 1024-57-3)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Acute</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Dermal</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Guinea pig</td>
<td>116 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Rabbit</td>
<td>500 - 2000 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Rat</td>
<td>119 mg/kg</td>
</tr>
<tr>
<td><strong>Inhalation</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LC50</td>
<td>Rat</td>
<td>200 mg/l, 4 Hours</td>
</tr>
<tr>
<td><strong>Oral</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Cat</td>
<td>67 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Guinea pig</td>
<td>116 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Hamster</td>
<td>100 - 160 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Mouse</td>
<td>68 - 180 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Rabbit</td>
<td>80 - 90 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Rat</td>
<td>40 - 100 mg/kg</td>
</tr>
<tr>
<td>TD</td>
<td>Calf</td>
<td>20 mg/kg</td>
</tr>
<tr>
<td><strong>Other</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Mouse</td>
<td>10 mg/kg</td>
</tr>
</tbody>
</table>

* Estimates for product may be based on additional component data not shown.

**Skin corrosion/irritation**
- Prolonged skin contact may cause temporary irritation.

**Serious eye damage/eye irritation**
- Direct contact with eyes may cause temporary irritation.

**Respiratory or skin sensitization**
- **Respiratory sensitization**
  - Not available.
- **Skin sensitization**
  - This product is not expected to cause skin sensitization.
- **Germ cell mutagenicity**
  - No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

**Carcinogenicity**
- Suspected of causing cancer.

**IARC Monographs. Overall Evaluation of Carcinogenicity**
- Heptachlor epoxide (Isomer B) (CAS 1024-57-3) 2B Possibly carcinogenic to humans.

- Not listed.

**Reproductive toxicity**
- Suspected of damaging fertility or the unborn child.

**Specific target organ toxicity - single exposure**
- Not classified.

**Specific target organ toxicity - repeated exposure**
- May cause damage to organs through prolonged or repeated exposure.

**Aspiration hazard**
- Not available.

**Chronic effects**
- Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects. May cause damage to organs through prolonged or repeated exposure.

**12. Ecological information**

**Ecotoxicity**
- Very toxic to aquatic life with long lasting effects. Accumulation in aquatic organisms is expected.

<table>
<thead>
<tr>
<th>Product</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heptachlor epoxide (Isomer B) (CAS 1024-57-3)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Aquatic</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crustacea</td>
<td>EC50</td>
<td>Water flea (Daphnia pulex)</td>
</tr>
<tr>
<td>Fish</td>
<td>LC50</td>
<td>Bluegill (Lepomis macrochirus)</td>
</tr>
</tbody>
</table>

* Estimates for product may be based on additional component data not shown.

**Persistence and degradability**
- No data is available on the degradability of this product.

**Bioaccumulative potential**
- Not available.

**Partition coefficient n-octanol / water (log Kow)**
- 5.4
Mobility in soil
No data available.

Other adverse effects
No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions
Consult authorities before disposal. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations
Dispose in accordance with all applicable regulations.

Hazardous waste code
The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

US RCRA Hazardous Waste P List: Reference
Heptachlor epoxide (isomer B) (CAS 1024-57-3) P059

Waste from residues / unused products
Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging
Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information

DOT

UN number
UN2811

UN proper shipping name
Toxic solids, organic, n.o.s.

Transport hazard class(es)
Class 6.1 (PGI, II)
Subsidiary risk -
Label(s) 6.1

Packing group
II

Special precautions for user
Read safety instructions, SDS and emergency procedures before handling.

Special provisions
IB8, IP2, IP4, T3, TP33

Packaging exceptions
153

Packaging non bulk
212

Packaging bulk
242

IATA

UN number
UN2811

UN proper shipping name
Toxic solid, organic, n.o.s.

Transport hazard class(es)
Class 6.1 (PGI, II)
Subsidiary risk -

Packing group
II

Environmental hazards
No.

ERG Code
6L

Special precautions for user
Read safety instructions, SDS and emergency procedures before handling.

Other information
Passenger and cargo aircraft
Allowed.

Cargo aircraft only
Allowed.

IMDG

UN number
UN2811

UN proper shipping name
TOXIC SOLID, ORGANIC, N.O.S.

Transport hazard class(es)
Class 6.1 (PGI, II)
Subsidiary risk -

Packing group
II

Environmental hazards
No.

EmS
F-A, S-A

Special precautions for user
Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable.
15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

One or more components are not listed on TSCA.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Heptachlor epoxide (Isomer B) (CAS 1024-57-3) Listed.

SARA 304 Emergency release notification

Not regulated.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - Yes
Delayed Hazard - Yes
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical

Yes

SARA 313 (TRI reporting)

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS number</th>
<th>% by wt.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heptachlor epoxide (Isomer B)</td>
<td>1024-57-3</td>
<td>100</td>
</tr>
</tbody>
</table>

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Heptachlor epoxide (Isomer B) (CAS 1024-57-3)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Clean Water Act (CWA)

Section 112(r) (40 CFR 68.130)

Hazardous substance

Priority pollutant

Safe Drinking Water Act (SDWA)

0 mg/l

0.0002 mg/l

US state regulations

US. Massachusetts RTK - Substance List

Heptachlor epoxide (Isomer B) (CAS 1024-57-3)

US. New Jersey Worker and Community Right-to-Know Act

Heptachlor epoxide (Isomer B) (CAS 1024-57-3) 500 LBS
US. Pennsylvania RTK - Hazardous Substances
Heptachlor epoxide (Isomer B) (CAS 1024-57-3)

US. Rhode Island RTK
Heptachlor epoxide (Isomer B) (CAS 1024-57-3)

US. California Proposition 65
WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance
Heptachlor epoxide (Isomer B) (CAS 1024-57-3) Listed: July 1, 1988

US - California Proposition 65 - CRT: Listed date/Developmental toxin
Heptachlor epoxide (Isomer B) (CAS 1024-57-3) Listed: August 20, 1999

International Inventories

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>Australian Inventory of Chemical Substances (AICS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Domestic Substances List (DSL)</td>
<td>No</td>
</tr>
<tr>
<td>Canada</td>
<td>Non-Domestic Substances List (NDSL)</td>
<td>No</td>
</tr>
<tr>
<td>China</td>
<td>Inventory of Existing Chemical Substances in China (IECSC)</td>
<td>No</td>
</tr>
<tr>
<td>Europe</td>
<td>European Inventory of Existing Commercial Chemical Substances (EINECS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Europe</td>
<td>European List of Notified Chemical Substances (ELINCS)</td>
<td>No</td>
</tr>
<tr>
<td>Japan</td>
<td>Inventory of Existing and New Chemical Substances (ENCS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Korea</td>
<td>Existing Chemicals List (ECL)</td>
<td>Yes</td>
</tr>
<tr>
<td>New Zealand</td>
<td>New Zealand Inventory</td>
<td>No</td>
</tr>
<tr>
<td>Philippines</td>
<td>Philippine Inventory of Chemicals and Chemical Substances (PICCS)</td>
<td>Yes</td>
</tr>
<tr>
<td>United States &amp; Puerto Rico</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
<td>No</td>
</tr>
</tbody>
</table>

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date 09-15-2014
Version # 01
NFPA ratings
Health: 2
Flammability: 0
Instability: 0
Special hazards: W-

Disclaimer
The above information is believed to be correct on the date it was last revised and must not be considered all inclusive. The information has been obtained only by a search of available literature and is only a guide for handling the chemicals. OSHA regulations require that if other hazards become evident, an upgraded SDS must be made available to the employee within three months. RESPONSIBILITY for updates lies with the employer and not with CHEM SERVICE, Inc.

Persons not specifically and properly trained should not handle this chemical or its container. This product is furnished FOR LABORATORY USE ONLY! Our products may NOT BE USED as drugs, cosmetics, agricultural or pesticide products, food additives or as household chemicals.

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