

# MSDS

# Material Safety Data Sheet

Date prepared: Sep 5, 2014

Date revised: N/A (first edition)

## Section 1 - General Information

**Chemical Name:**  $\delta$ -HCH  
**CAS Reg. Number:** 319-86-8  
**Catalog Number:** 1ST20023  
**Manufacturer's Name:** A Chemtek, Inc.  
100 Barber Avenue  
Worcester, MA 01606, USA

**Telephone Number:** 508-471-4121

**Fax Number:** 508-845-9201


*For R & D use only*

## Section 2 - Hazardous Ingredients/Identity Information

### Classification of the substance or mixture

Acute toxicity, Oral (Category 3), H301  
Acute toxicity, Dermal (Category 4), H312  
Carcinogenicity (Category 2), H351  
Acute aquatic toxicity (Category 1), H400  
Chronic aquatic toxicity (Category 1), H410

### Label elements

Pictogram	
Signal word	Danger
Hazard statement(s)	
H301	Toxic if swallowed.
H312	Harmful in contact with skin.
H351	Suspected of causing cancer.
H410	Very toxic to aquatic life with long lasting effects.
Precautionary statement(s)	
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P264	Wash skin 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.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P322	Specific measures (see supplemental first aid instructions on this label).
P330	Rinse mouth.
P363	Wash contaminated clothing before reuse.
P391	Collect spillage.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant

## Section 3 - Composition/Information on Ingredients

**Formula:** C<sub>6</sub>H<sub>6</sub>CL<sub>6</sub>  
**Molecular Weight:** 290.83 g/mol  
**CAS-No.** 319-86-8

## Section 4 - First Aid Measures

### If inhaled

If breathed in, move person into fresh air. If not breathing give artificial respiration.

### In case of skin contact

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Wash off with soap and plenty of water.

## In case of eye contact

Flush eyes with water as a precaution.

## If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

## Section 5 - Fire-Fighting Measures

### Suitable extinguishing media

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

### Special protective equipment for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

## Section 6 - Accidental Release Measures

### Personal precautions

Avoid dust formation

### Environmental precautions

Do not let product enter drains.

### Methods for cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal.

## Section 7 - Handling and Storage

### Handling

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

### Storage

Keep container tightly closed in a dry and well-ventilated place.  
Recommended storage temperature: -20 °C

## Section 8 - Exposure Controls/Personal Protection

### Contains no substances with occupational exposure limit values

### Personal protective equipment

#### Respiratory protection

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Hand protection

For prolonged or repeated contact use protective gloves

#### Eye protection

Safety glasses

#### Hygiene measures

General industrial hygiene practice

## Section 9 - Physical and Chemical Properties

### Appearance:

Form	Solid
Color	Colourless

### Safety data

pH:	not available
Melting point:	not available
Boiling point:	not available
Flash point:	not available
Lower explosion limit:	not available
Upper explosion limit:	not available
Water solubility:	not available

## Section 10 - Stability and Reactivity

### Storage stability

Stable under recommended storage conditions

### Materials to avoid

Strong oxidizing agents

### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions.

- Carbon oxides, Hydrogen chloride gas.

## Section 11 - Toxicological Information

### Acute toxicity:

LD50 Oral - rat - 1,000 mg/kg

Inhalation: no data available

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No data available

**Irritation and corrosion:** not available

**Sensitization:** not available

**Respiratory or skin sensitization:** not available

## Chronic exposure

IARC: 2B - Group 2B: Possibly carcinogenic to humans (  $\delta$ -HCH )

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

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## Potential health effects

Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.

Skin: May be harmful if absorbed through skin. May cause skin irritation.

Eyes: May cause eye irritation.

Ingestion: May be harmful if swallowed.

## Section 12 - Ecological Information

### Elimination information (persistence and degradability)

Toxicity to fish LC50 - other fish - 2.83 mg/l - 96.0 h

**Ecotoxicity effects:** not available

**Further information on ecology:** other fish - 33 d - 0.955 mg/l

## Section 13 - Disposal Considerations

**Product** Observe all federal, state, and local environmental regulations.

**Contaminated packaging** Dispose of as unused product.

## Section 14- Transport Information

### DOT (US):

UN number: 3077 Class: 9 Packing group: III

Proper shipping name: Environmentally hazardous substances, solid, n.o.s. (1 $\alpha$ ,2 $\alpha$ ,3 $\alpha$ ,4 $\beta$ ,5 $\alpha$ ,6 $\beta$ )-1,2,3,4,5,6-Hexachlorocyclohexane)

Reportable Quantity (RQ): 1 lbs

Poison Inhalation Hazard: No

### IMDG:

UN number: 3077 Class: 9 Packing group: III EMS-No: F-A, S-F

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (1 $\alpha$ ,2 $\alpha$ ,3 $\alpha$ ,4 $\beta$ ,5 $\alpha$ ,6 $\beta$ )-1,2,3,4,5,6-Hexachlorocyclohexane)

Marine pollutant: yes

### IATA:

UN number: 3077 Class: 9 Packing group: III

Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (1 $\alpha$ ,2 $\alpha$ ,3 $\alpha$ ,4 $\beta$ ,5 $\alpha$ ,6 $\beta$ )-1,2,3,4,5,6-Hexachlorocyclohexane)

## Section 15 - Regulatory Information

### SARA 302 Components

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SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

$\delta$ -HCH

CAS-NO.

Revision Date

319-86-8

1993-04-24

### SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the

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threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### Massachusetts Right To Know Components

δ-HCH CAS-No.319-86-8 Revision Date: 1993-04-24

### Pennsylvania Right To Know Components

δ-HCH CAS-No.319-86-8 Revision Date: 1993-04-24

### New Jersey Right To Know Components

δ-HCH CAS-No.319-86-8 Revision Date: 1993-04-24

### California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

### Section 16 - Other Information

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. A Chemtek shall not be held liable for any damage resulting from handling or from contact with the above product.

First Standard