

MSDS

Material Safety Data Sheet

Date prepared: Sep 5, 2015

Date revised: N/A (first edition)

Section 1 - General Information

Chemical Name: Permethrin
CAS Reg. Number: 52645-53-1
Catalog Number: 1ST20227
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 4)

Acute toxicity, Inhalation (Category 4)

Acute toxicity, Dermal (Category 5)

Skin irritation (Category 3)

Skin sensitisation (Category 1)

Acute aquatic toxicity (Category 1)

Chronic aquatic toxicity (Category 1)



Pictogram

Signal word

Warning

Hazard statement(s)

H302 + H332 Harmful if swallowed or if inhaled

H313 May be harmful in contact with skin.

H316 Causes mild skin irritation.

H317 May cause an allergic skin reaction.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P273 Avoid release to the environment.

P280 Wear protective gloves.

P501 Dispose of contents/ container to an approved waste disposal plant.

Section 3 - Composition/Information on Ingredients

Formula: C₂₁H₂₀Cl₂O₃

Molecular Weight: 391.29 g/mol

CAS-No. 52645-53-1

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

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

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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 Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see section 8.

Environmental precautions Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Methods for cleaning up Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

Section 7 - Handling and Storage

Handling Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Storage Keep container tightly closed in a dry and well-ventilated place.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Recommended storage temperature: RT.

Section 8 - Exposure Controls/Personal Protection

Contains no substances with occupational exposure limit values

Personal protective equipment

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. 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 Semi-solid melting to a liquid

Color not available

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, Strong bases

Hazardous decomposition products Hazardous decomposition products formed under fire conditions.

- Carbon oxides, Hydrogen chloride gas

Section 11 - Toxicological Information

Acute toxicity:

Oral LD50

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LD50 Oral - rat - 383 mg/kg

Inhalation LC50

LC50 Inhalation - rat - 485 mg/m³

Dermal LD50

LD50 Dermal - rabbit - > 2,000 mg/kg

Irritation and corrosion: not available

Sensitization: not available

Respiratory or skin sensitization: not available

Chronic exposure

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

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

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.

Potential health effects

Inhalation: no data available

Skin: no data available

Eyes: no data available

Ingestion: no data available

Section 12 - Ecological Information

Elimination information (persistence and degradability) not available

Ecotoxicity effects: not available

Further information on ecology: not available

Section 13 - Disposal Considerations

Product Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging Dispose of as unused product.

Section 14- Transport Information

DOT (US):

Not dangerous goods

IMDG:

Not dangerous goods

IATA:

Not dangerous goods

Section 15 - Regulatory Information

SARA 302 Components

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

SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

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New Jersey Right To Know Components

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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.

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