

MSDS

Material Safety Data Sheet

Date prepared: July 25, 2014

Date revised: N/A (first edition)

Section 1 - General Information

Chemical Name: Oxychlorane solution, 100ppm
Synonyms: NA
CAS Reg. Number: 27304-13-8
Catalog Number: 1ST20519-100M
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

Emergency Overview

OSHA Hazards

Carcinogen, Target Organ Effect, Toxic by ingestion

Target Organs

Liver, Kidney, Gastrointestinal tract, Bone marrow

GHS Classification

Acute toxicity, Oral (Category 4)

Carcinogenicity (Category 1B)

Acute aquatic toxicity (Category 2)

GHS Label elements, including precautionary statements



Pictogram

Signal word

Danger

Hazard statement(s)

H302 Harmful if swallowed.

H350 May cause cancer.

H401 Toxic to aquatic life.

Precautionary statement(s)

P201 Obtain special instructions before use.

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

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: Toxic if swallowed.

Section 3 - Hazardous Components/Identity Information

Hazardous Components	CAS #	Concentration
Methanol	67-56-1	Balance
Oxychlorane	27304-13-8	0.01%

Section 4 - First Aid Measures

EYE CONTACT: Check for and remove any contact lenses. IMMEDIATELY flush Eyes with running water for at least 15 minutes while keeping eyes open. COLD water may be used. Seek medical attention.

SKIN CONTACT: After contact with skin, wash with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. COLD water

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may be used. Cover the irritated skin with an emollient. Seek medical attention.
Wash any contaminated clothing before reusing.

INHALATION: Remove victim from source of exposure to fresh air. If breathing is difficult administer oxygen. Seek medical attention.

INGESTION: Do not induce vomiting. Give water to victim to drink. Seek medical attention.

Section 5 - Fire-Fighting Measures

Flammable properties

Flash point 9.7 °C (49.5 °F) - closed cup
Ignition temperature 455 °C (851 °F)

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 Avoid contact with skin and eyes. Avoid formation of dust and aerosols.
Provide appropriate exhaust ventilation at places where dust is formed.

Storage Keep container tightly closed in a dry and well-ventilated place.
Store at -20°C.

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 particle respirator type N100 (US) or type P3 (EN 143) 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 Liquid
Color Colorless

Safety data

pH: not available
Melting point: -98 °C (-144 °F)
Boiling point: 64.7 °C (148.5 °F)
Flash point: 9.7 °C (49.5 °F) - closed cup
Ignition temperature: 455 °C (851 °F)
Lower explosion limit: 6 %(V)
Upper explosion limit: 36 %(V)
Water solubility: not available

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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: no data available
Other information on acute toxicity no data available
Irritation and corrosion: not available
Sensitization: not available
Respiratory or skin sensitization: not available
Chronic exposure
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, NTP, or OSHA.
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: Toxic if swallowed.

Section 12 - Ecological Information

Toxicity not available
Persistence and degradability not available
Bioaccumulative potential not available
Mobility in soil not available
Results of PBT and vPvB assessment not available
Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life.

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	IATA
Proper Shipping Name: Methanol	Proper Shipping Name: Methanol
UN#: 1230	UN#: 1230
Class: 3	Class: 3
Packing Group: II	Packing Group: II
Small quantities exempted	Small quantities exempted

Section 15 - Regulatory Information

This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Section 16 - Other Information

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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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