

# CSAScientific CSAIngredients CSAPathology

# Safety Data Sheet Carbol Thionin

SDS no. AXBXW6L2 • Version 1.0 • Date of issue: 2023-03-01

#### **SECTION 1: Identification**

#### **GHS Product identifier**

Product name Carbol Thionin

## Recommended use of the chemical and restrictions on use

Laboratory and Analytical Reagent

## Supplier's details

Name ChemSupply Australia Pty Ltd

Address 38-50 Bedford Street

5013 Gillman South Australia

Australia

Telephone 08 8440 2000

email www.chemsupply.com

**Emergency phone number** 

CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)

## **SECTION 2: Hazard identification**

## **General hazard statement**

Not classified as dangerous goods according to the Australian Dangerous Goods Code (ADG).

Classified as Hazardous according to the Globally Harmonised System of classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

## Classification of the substance or mixture

## GHS classification in accordance with: UN GHS revision 7

- Germ cell mutagenicity, Cat. 2
- Serious eye damage/eye irritation, Cat. 2A
- Skin corrosion/irritation, Cat. 2

## GHS label elements, including precautionary statements

## **Pictograms**



## Signal word Warning

Hazard statement(s)

H303May be harmful if swallowedH315Causes skin irritationH319Causes serious eye irritationH333May be harmful if inhaled

H341 Suspected of causing genetic defects

Precautionary statement(s)

P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312 Wear protective gloves/protective clothing/eye protection/face protection.
IF SWALLOWED: Call a POISON CENTER/doctor/physcian if you feel unwell,

P302+P352 IF ON SKIN: Wash with plenty of water/soap

P304+P312 IF INHALED: Call a POISON CENTER/doctor/physcian if you feel unwell.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P308+P313 IF exposed or concerned: Get medical advice/attention.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.

P501 Dispose of contents/container to an approved waste disposal facility

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

#### **Mixtures**

Other components either not classified as Hazardous under the GHS, or below cut-off concentrations to be classified as Hazardous.

**Hazardous components** 

Component	Concentration
PHENOL (CAS no.: 108-95-2; EC no.: 203-632-7; Index no.: 604-001-00-2)	<= 2 % (weight)
CLASSIFICATIONS, Corm cell mutagenicity Cot 2, Acute toxicity inhelation Co	at 2. Aquita tovigity, darmal, Cat 2. Aquita tovigity, and Cat 2. Capacific target argan

CLASSIFICATIONS: Germ cell mutagenicity, Cat. 2; Acute toxicity, inhalation, Cat. 3; Acute toxicity, dermal, Cat. 3; Acute toxicity, oral, Cat. 3; Specific target organ toxicity following repeated exposure, Cat. 2; Skin corrosion/irritation, Cat. 1B. HAZARDS: H301 - Toxic if swallowed; H311 - Toxic in contact with skin; H314 - Causes severe skin burns and eye damage; H331 - Toxic if inhaled; H341 - Suspected of causing genetic defects [route]; H373 - May cause damage to organs [organs] through prolonged or repeated exposure [route]. [SCLs/M-factors/ATEs]: \*; Skin Corr. 1B; H314:  $C \ge 3$  %; Skin Irrit. 2; H315: 1 %  $\le C < 3$  %; Eye Irrit. 2; H319: 1 %  $\le C < 3$  %

Thionin acetate salt (CAS no.: 78338-22-4) < 0.1 % (weight

CLASSIFICATIONS: Serious eye damage/eye irritation, Cat. 2A; Skin corrosion/irritation, Cat. 2; Specific target organ toxicity following single exposure, Cat. 3. HAZARDS: H315 - Causes skin irritation; H319 - Causes serious eye irritation; H335 - May cause respiratory irritation.

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

## **Description of necessary first-aid measures**

General advice First Aid Facilities: Maintain eyewash fountain in work area.

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

Consult a physician.

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In case of skin contact If skin or hair contact occurs, remove contaminated clothing and flush skin and hair

with running water.

In case of eye contact Continue rinsing eyes during transport to hospital. Rinse thoroughly with plenty of water

for at least 15 minutes and consult a physician.

If swallowed, do NOT induce vomiting. Seek medical advice

## Most important symptoms/effects, acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

#### Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically based on judgement of doctor and individual reactions of the patient.

# **SECTION 5: Fire-fighting measures**

## Suitable extinguishing media

Specific Methods: Small fire: Use dry chemical, CO2, water spray or foam.

Large fire: Use water spray, fog or foam.

If safe to do so, move undamaged containers from the fire area. Cool containers with flooding quantities of water until well after the fire is out.

#### Specific hazards arising from the chemical

Solutions will not burn or support combustion. Decomposition products include oxides of nitrogen.

## Special protective actions for fire-fighters

Fire fighters should wear full protective clothing and self-contained breathing apparatus (SCBA) operated in positive pressure mode. Fight fire from safe location.

## **SECTION 6: Accidental release measures**

## Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment. Avoid dust formation. For personal protection see section 8.

## Methods and materials for containment and cleaning up

Do NOT touch or walk through this product. Stop leak if safe to do so. Prevent entry into waterways, drains, confined areas. Prevent dust cloud. Use clean non-sparking tools to collect material and place it into loosely-covered plastic containers for later disposal. Wash area down with excess water.

## **SECTION 7: Handling and storage**

#### **Precautions for safe handling**

Use personal protective equipment as required. Keep container closed when not in use. Never return spills in original containers for re-use. Keep out of the reach of children.

## Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well-ventilated area, out of direct sunlight. Store in suitable, labelled containers. Keep containers tightly closed. Store away from incompatible materials. Ensure that storage conditions comply with applicable local and national regulations.

# **SECTION 8: Exposure controls/personal protection**

## **Control parameters**

CAS: 108-95-2 Phenol

AU/SWA (Australia): 1 ppm; 4 mg/m3 TWA inhalation; NIOSH: 5 ppm, (C) 15.6 ppm [15-min] REL inhalation

## **Appropriate engineering controls**

Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, gas, etc.) below recommended exposure limits.

#### Individual protection measures, such as personal protective equipment (PPE)

## **Eye/face protection**

The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate. Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336.

## Skin protection

Clean impervious clothing should be worn. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.

Hand Protection: Normally not required but if in doubt ensure hand protection should complies with AS 2161, Occupational protective gloves - Selection, use and maintenance.

## **Body protection**

Solubility

Suitable protective workwear, e.g. cotton overalls buttoned at neck and wrist is recommended. Chemical resistant apron is recommended where large quantities are handled.

## **Respiratory protection**

If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable vapor/ mist filter should be used. Refer to relevant regulations for further information concerning respiratory protective requirements. Reference should be made to Australian Standards AS/ NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

Miscible

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

## **Basic physical and chemical properties**

Physical state Liquid **Appearance** Liquid Dark blue Color Odor No data available. Odor threshold No data available. No data available. Melting point/freezing point Boiling point or initial boiling point and boiling range No data available. No data available. **Flammability** No data available. Lower and upper explosion limit/flammability limit No data available. Flash point No data available. **Explosive properties** Auto-ignition temperature No data available. Decomposition temperature No data available. No data available. Oxidizing properties Acidic рΗ Kinematic viscosity No data available.

Partition coefficient n-octanol/water (log value)

Vapor pressure Evaporation rate

Density and/or relative density

Relative vapor density

No data available.

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No data available.

No data available.

No data available.

1.1

No data available.

#### **Particle characteristics**

No data available.

## Supplemental information regarding physical hazard classes

No data available.

## **Further safety characteristics (supplemental)**

No data available.

# **SECTION 10: Stability and reactivity**

#### Reactivity

Stable under normal conditions of storage and handling.

Reacts with incompatible materials

## **Chemical stability**

Stable under recommended storage conditions.

## Possibility of hazardous reactions

None under normal use conditions.

#### **Conditions to avoid**

Avoid storing in direct sunlight and avoid extremes of temperature.

#### **Incompatible materials**

No data available.

## **Hazardous decomposition products**

Other decomposition products - No data available In the event of fire: see section 5

# **SECTION 11: Toxicological information**

## Information on toxicological effects

# **Acute toxicity**

Harmful if swallowed. Ingestion of this product will cause nausea, vomiting, abdominal pain, and chemical burns to the mouth, throat and stomach.

The ATE (dermal) of the mixture is: 2444.44 mg/kg bw The ATE (vapor inhalation) of the mixture is: 24.44 mg/l The ATE (oral) of the mixture is: 1111.11 mg/kg bw

#### Skin corrosion/irritation

Causes skin irritation. May cause an allergic skin reaction. Skin contact will cause redness, itching and swelling. Repeated exposure may cause skin dryness and cracking and may lead to dermatitis.

#### Serious eye damage/irritation

Causes serious eye irritation. On eye contact this product will cause tearing, stinging, blurred vision, and redness.

## Respiratory or skin sensitization

Inhalation of product vapours may cause irritation of nose, throat and respiratory system and possible harmful corrosive effects to the respiratory system. Not expected to be a respiratory or skin sensitiser.

## **Germ cell mutagenicity**

Suspected of causing genetic defects

#### Carcinogenicity

No data available.

## Reproductive toxicity

No data available.

#### Summary of evaluation of the CMR properties

No data available.

## Specific target organ toxicity (STOT) - single exposure

May cause respiratory irritation.

## Specific target organ toxicity (STOT) - repeated exposure

No data available.

## **Aspiration hazard**

No data available.

## **Additional information**

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PHENOL: \*TOXICITY:

typ. dose mode specie amount units other

LDLo orl inf 10 mg/kg

LDLo orl hmn 14 gm/kg

LDLo orl hmn 140 mg/kg

LD50 orl rat 317 mg/kg

LD50 skn rat 669 mg/kg

LD50 orl mus 270 mg/kg

LDLo orl dog 500 mg/kg

LD50 skn rbt 850 mg/kg

LC50 ihl rat 316 mg/m3

LC50 ihl mus 177 mg/m3

LD50 ipr rat 127 mg/kg

LD50 scu rat 460 mg/kg

LD50 ipr mus 180 mg/kg

LD50 scu mus 344 mg/kg

LD50 ivn mus 112 mg/kg

LDLo par dog 2000 mg/kg

LDLo orl cat 80 mg/kg

LDLo scu cat 80 mg/kg

LDLo par cat 500 mg/kg

LDLo orl rbt 420 mg/kg LC50 ihl mam 74 mg/m3

LDLo ipr rbt 620 mg/kg

LDLo scu rbt 620 mg/kg

LDLo ivn rbt 180 mg/kg

LDLo par rbt 300 mg/kg

LDLo ipr gpg 300 mg/kg

LDLo scu gpg 450 mg/kg

LDLo scu frg 75 mg/kg

LDLo par frg 290 mg/kg

LDLo scu frg 290 mg/kg

\*AQTX/TLM96: Not available

#### \*SAX TOXICITY EVALUATION:

THR: Human poison by ingestion. An experimental poison by ingestion, subcutaneous, intravenous, parenteral and intraperitoneal routes. Moderately toxic by skin contact. A severe eye and skin irritant. An experimental carcinogen and neoplastigen. Human mutagenic data. Absorption of phenolic solutions through the skin may be very rapid, and can cause death within 30 minutes to several hours by exposure of as little as 64 square inches of skin. A common air contaminant.

#### \*CARCINOGENICITY:

Tumorigenic Data:

TDLo: skn-mus 16 gm/kg/40W-I TD : skn-mus 4000 mg/kg/24W-I

Review: IARC Cancer Review: Human Inadequate Evidence

IARC Cancer Review: Animal Inadequate Evidence

IARC: Not classifiable as a human carcinogen (Group 3) [610]

Status: NCI Carcinogenesis Bioassay (Water); Negative: Male and Female Rat,

Male and Female Mouse [620]

#### \*MUTATION DATA:

test lowest dose I test lowest dose

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sce-hmn:lym 5 umol/L | mrc-asn 15 umol/L dnd-mam:lym 250 mmol/L | dni-mus-orl 20 gm/kg mma-sat 40 umol/plate | dni-hmn:hla 1 mmol/L cyt-ofs-mul 300 nL/L | oms-hmn:hla 17 mg/L oms-hmn:lym 5 umol/L | oms-rbt:bmr 250 umol/L dni-mus:lym 800 umol/L | dns-rat-orl 4 gm/kg sln-dmg:ovr 100 ppm |

## \*TERATOGENICITY:

Reproductive Effects Data:

TDLo: ipr-rat 600 mg/kg (12-14D preg)
TDLo: orl-rat 300 mg/kg (6-15D preg)
TDLo: orl-rat 1200 mg/kg (6-15D preg)
TDLo: orl-mus 2300 mg/kg (6-15D preg)
TDLo: orl-mus 2600 mg/kg (6-15D preg)
TDLo: orl-mus 2800 mg/kg (6-15D preg)

TDLo: orl-mus 4 gm/kg (6-15D preg)

\*STANDARDS, REGULATIONS & RECOMMENDATIONS:

OSHA: Federal Register (1/19/89) and 29 CFR 1910.1000 Subpart Z

Transitional Limit: PEL-TWA 5 ppm (skin) [610]

Final Limit: PEL-TWA 5 ppm (skin) [610]

ACGIH: TLV-TWA 5 ppm (skin) [015,415,421,610]

NIOSH Criteria Document: Recommended Exposure Limit to this compound-air:

TWA 20 mg/m3; Ceiling Limit 60 mg/m3/15M [015]

NFPA Hazard Rating: Health (H): 3

Flammability (F): 2 Reactivity (R): 0

H3: Materials extremely hazardous to health but areas may be entered

with extreme care (see NFPA for details).

F2: Materials which must be moderately heated before ignition will occur

(see NFPA for details).

RO: Materials which are normally stable even under fire exposure conditions

and which are not reactive with water (see NFPA for details).

#### \*OTHER TOXICITY DATA:

Skin and Eye Irritation Data:

skn-rbt 500 mg/24H SEV

skn-rbt 535 mg open SEV

eye-rbt 5 mg SEV

eye-rbt 5 mg/30S rns MLD

skn-rbt 100 mg MLD

Review: Toxicology Review-5

Standard and Regulations: DOT-Hazard: Poison B; Label: Poison

DOT-Hazard: Poison B; Label: Poison, liquid

DOT-IMO: Poison B; Label: Poison

Status: EPA Genetox Program 1986, Negative: N crassa-reversion

EPA TSCA Chemical Inventory, 1986

EPA TSCA Test Submission (TSCATS) Data Base, March 1988 NIOSH Analytical Methods: see Phenol, 3502; Phenol and p-Cresol

in urine, 8305

Meets criteria for proposed OSHA Medical Records Rule

## **SECTION 12: Ecological information**

#### **Toxicity**

No data available.

## Persistence and degradability

No data available.

# **Bioaccumulative potential**

No data available.

#### Mobility in soil

No data available.

# Results of PBT and vPvB assessment

No data available.

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## **Endocrine disrupting properties**

No data available.

## Other adverse effects

No data available.

# **SECTION 13: Disposal considerations**

## **Disposal methods**

#### **Product disposal**

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers.

## Other disposal recommendations

Do not discharge this material into waterways, drains and sewers.

# **SECTION 14: Transport information**

## ADG (Road and Rail)

Not dangerous goods

#### **IMDG**

Not dangerous goods

#### IATA

Not dangerous goods

# **SECTION 15: Regulatory information**

# **SECTION 16: Other information**

#### **Further information/disclaimer**

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