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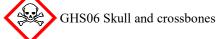
**1 Identification** 

Agilent

- · Product identifier
- · Trade name: Chlordane
- · Part number: PST-110, PST-110-10MG
- · CAS Number:
- 57-74-9
- **EC number:** 200-349-0
- **Index number:** 602-047-00-8
- · Application of the substance / the mixture Reagents and Standards for Analytical Chemical Laboratory Use
- · Details of the supplier of the safety data sheet
- **Manufacturer/Supplier:** Agilent Technologies, Inc. 5301 Stevens Creek Blvd. Santa Clara, CA 95051 USA
- Information department: Telephone: 800-227-9770
  e-mail: pdl-msds\_author@agilent.com
  Emergency telephone number: CHEMTREC®: 1-800-424-9300

## 2 Hazard(s) identification

· Classification of the substance or mixture



Acute Tox. 3 H301 Toxic if swallowed. Acute Tox. 3 H311 Toxic in contact with skin. Acute Tox. 2 H330 Fatal if inhaled.



GHS08 Health hazard

H351 Suspected of causing cancer.

· Label elements

Carc. 2

• GHS label elements The substance is classified and labeled according to the Globally Harmonized System (GHS). • Hazard pictograms



· Signal word Danger

- Hazard-determining components of labeling: chlordane (ISO)
- · Hazard statements

Toxic if swallowed or in contact with skin.

US

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## Safety Data Sheet acc. to OSHA HCS

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	(Cantil afrees 1)
Fatal if inhaled.	(Contd. of page 1)
Suspected of causing cancer.	
· Precautionary statements	
Obtain special instructions before use.	
1	
Do not handle until all safety precautions have been read and understood.	
Do not breathe dust/fume/gas/mist/vapors/spray.	
Wash thoroughly after handling.	
Do not eat, drink or smoke when using this product.	
Use only outdoors or in a well-ventilated area.	
Wear protective gloves/protective clothing/eye protection/face protection.	
[In case of inadequate ventilation] wear respiratory protection.	
If swallowed: Immediately call a poison center/doctor.	
Rinse mouth.	
If on skin: Wash with plenty of water.	
IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
IF exposed or concerned: Get medical advice/attention.	
Call a poison center/doctor if you feel unwell.	
Specific treatment is urgent (see on this label).	
Take off immediately all contaminated clothing and wash it before reuse.	
Store in a well-ventilated place. Keep container tightly closed.	
Store locked up.	
Dispose of contents/container in accordance with local/regional/national/international regulations.	
· Classification system:	
· NFPA ratings (scale 0 - 4)	
Health = 2 Fire = $0$	
Reactivity = $0$	
· HMIS-ratings (scale 0 - 4)	
HEALTH 3 Health = $3$	
FIRE 0 Fire = $0$	
$\frac{1}{\text{REACTIVITY}[0]} \text{Reactivity} = 0$	
REACTIVITY U Reactivity - 0	
· Other hazards	
· Results of PBT and vPvB assessment	
• <b>PBT:</b> Not applicable.	
• <b>vPvB:</b> Not applicable.	
(1, D. 1. co. approver.	
3 Composition/information on ingredients	
· Chemical characterization: Substances	
· CAS No. Description	
57-74-9 chlordane (ISO)	
· Identification number(s)	
· EC number: 200-349-0	
· Index number: 602-047-00-8	
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Trade name: Chlordane

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#### 4 First-aid measures

#### · Description of first aid measures

· General information:

Immediately remove any clothing soiled by the product.

- Remove breathing apparatus only after contaminated clothing have been completely removed.
- In case of irregular breathing or respiratory arrest provide artificial respiration.
- · After inhalation:

Supply fresh air or oxygen; call for doctor.

- In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- · After swallowing: Do not induce vomiting; immediately call for medical help.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

#### **5 Fire-fighting measures**

- · Extinguishing media
- Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- · Special hazards arising from the substance or mixture
- During heating or in case of fire poisonous gases are produced.
- · Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

#### **6 Accidental release measures**

- · Personal precautions, protective equipment and emergency procedures Mount respiratory protective device.
- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13.
- Ensure adequate ventilation.
- · Reference to other sections
- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.
- · Protective Action Criteria for Chemicals

· PAC-1: 4.5 mg/m<sup>3</sup> · PAC-2:  $50 \text{ mg/m}^3$ · PAC-3:

500 mg/m<sup>3</sup>

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#### 7 Handling and storage

· Handling:

· Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

- Prevent formation of aerosols.
- Information about protection against explosions and fires: Keep respiratory protective device available.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- Specific end use(s) No further relevant information available.

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

• Additional information about design of technical systems: No further data; see item 7.

- · Control parameters
- · Components with limit values that require monitoring at the workplace: Not required.
- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:
- Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the eyes and skin.

· Breathing equipment:

When used as intended with Agilent instruments, the use of the product under normal laboratory conditions and with standard practices does not result in significant airborne exposures and therefore respiratory protection is not needed.

Under an emergency condition where a respirator is deemed necessary, use a NIOSH or equivalent approved device/equipment with appropriate organic or acid gas cartridge.

· Protection of hands:

Although not recommended for constant contact with the chemicals or for clean-up, nitrile gloves 11-13 mil thickness are recommended for normal use. The breakthrough time is 1 hr. For cleaning a spill where there is direct contact of the chemical, butyl rubber gloves are recommended 12-15 mil thickness with breakthrough times exceeding 4 hrs. Supplier recommendations should be followed.

· Material of gloves

For normal use: nitrile rubber, 11-13 mil thickness

- For direct contact with the chemical: butyl rubber, 12-15 mil thickness
- The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
- · Penetration time of glove material
- For normal use: nitrile rubber: 1 hour

For direct contact with the chemical: butyl rubber: >4 hours

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· Eye protection: Goggles recommended during refilling.

## 9 Physical and chemical properties

<ul> <li>Information on basic physical and chemical properties</li> <li>General Information</li> <li>Appearance:</li> <li>Form: Fluid</li> <li>Color: Not determined.</li> <li>Odor: Characteristic</li> <li>Odor threshold: Not determined.</li> <li>of the termined.</li> <li>of the termined.</li> <li>pH-value: Not determined.</li> <li>Change in condition         <ul> <li>Melting point/Melting range: 105-107 °C (221-224.6 °F)</li> <li>Boiling point/Melting range: 175 °C (347 °F)</li> <li>Flash point: Not applicable.</li> <li>Flammability (solid, gaseous): Not applicable.</li> <li>Decomposition temperature: Not determined.</li> <li>Auto igniting: Not determined.</li> <li>Danger of explosion: Product does not present an explosion hazard.</li> <li>Explosion limits:                 Lover: Not determined.</li> <li>Vapor pressure at 25 °C (77 °F): 0.000013 hPa (0 mm Hg)</li> <li>Density at 20 °C (68 °F): 1.59 g/cm³ (13.26855 lbs/gal)</li> <li>Relative density Not determined.</li> <li>Vapor density Not determined.</li> <li>Vapor density Not determined.</li> <li>Solubility in / Miscibility with Water: Not miscible or difficult to mix.</li> </ul> </li> </ul>		
· Appearance:FluidForm:FluidColor:Not determined.· Odor threshold:Not determined.· Odor threshold:Not determined.· pH-value:Not determined.· Change in condition Melting point/Melting range:105-107 °C (221-224.6 °F) 175 °C (347 °F)· Flash point:Not applicable.· Flash point:Not applicable.· Flammability (solid, gaseous):Not applicable.· Decomposition temperature:Not determined.· Danger of explosion:Product does not present an explosion hazard.· Explosion limits: Lower: Upper:Not determined.· Vapor pressure at 25 °C (77 °F):0.000013 hPa (0 mm Hg)· Density at 20 °C (68 °F):1.59 g/cm³ (13.26855 lbs/gal)· Relative density · Vapor densityNot determined.· Solubility in / Miscibility withNot determined.<	· Information on basic physical and chemical properties	
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• Decomposition temperature:       Not determined.         • Auto igniting:       Not determined.         • Danger of explosion:       Product does not present an explosion hazard.         • Explosion limits:       Image: Not determined.         Lower:       Not determined.         Upper:       Not determined.         • Vapor pressure at 25 °C (77 °F):       0.000013 hPa (0 mm Hg)         • Density at 20 °C (68 °F):       1.59 g/cm³ (13.26855 lbs/gal)         • Relative density       Not determined.         • Vapor density       Not determined.         • Vapor density       Not determined.         • Solubility in / Miscibility with       Kelative density	· Flash point:	Not applicable.
· Auto igniting:       Not determined.         · Danger of explosion:       Product does not present an explosion hazard.         · Explosion limits:       Image: Not determined.         Lower:       Not determined.         Upper:       Not determined.         · Vapor pressure at 25 °C (77 °F):       0.000013 hPa (0 mm Hg)         · Density at 20 °C (68 °F):       1.59 g/cm³ (13.26855 lbs/gal)         · Relative density       Not determined.         · Vapor density       Not determined.         · Vapor density       Not determined.         · Solubility in / Miscibility with       Vetermined.	· Flammability (solid, gaseous):	Not applicable.
• Danger of explosion:       Product does not present an explosion hazard.         • Explosion limits:       Not determined.         Lower:       Not determined.         Upper:       Not determined.         • Vapor pressure at 25 °C (77 °F):       0.000013 hPa (0 mm Hg)         • Density at 20 °C (68 °F):       1.59 g/cm <sup>3</sup> (13.26855 lbs/gal)         • Relative density       Not determined.         • Vapor density       Not determined.         • Solubility in / Miscibility with       Vatermined.	· Decomposition temperature:	Not determined.
• Explosion limits:       Not determined.         Lower:       Not determined.         Upper:       Not determined.         • Vapor pressure at 25 °C (77 °F):       0.000013 hPa (0 mm Hg)         • Density at 20 °C (68 °F):       1.59 g/cm <sup>3</sup> (13.26855 lbs/gal)         • Relative density       Not determined.         • Vapor density       Not determined.         • Vapor density       Not determined.         • Solubility in / Miscibility with       Vatermined.	· Auto igniting:	Not determined.
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• Density at 20 °C (68 °F):       1.59 g/cm³ (13.26855 lbs/gal)         • Relative density       Not determined.         • Vapor density       Not determined.         • Evaporation rate       Not determined.         • Solubility in / Miscibility with       Value	Upper:	Not determined.
• Relative density       Not determined.         • Vapor density       Not determined.         • Evaporation rate       Not determined.         • Solubility in / Miscibility with       Value	· Vapor pressure at 25 °C (77 °F):	0.000013 hPa (0 mm Hg)
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• Evaporation rate     Not determined.       • Solubility in / Miscibility with     • • • • • • • • • • • • • • • • • • •		
• Evaporation rate     Not determined.       • Solubility in / Miscibility with     • • • • • • • • • • • • • • • • • • •	· Vapor density	Not determined.
	· Evaporation rate	Not determined.
	· Solubility in / Miscibility with	
		Not miscible or difficult to mix.
· Partition coefficient (n-octanol/water): Not determined.	· Partition coefficient (n-octanol/water	): Not determined.
· Viscosity:	· Viscosity:	
Dynamic: Not determined.		Not determined.
Kinematic: Not determined.		Not determined.
VOC content: 0.00 %	VOC content:	0.00 %
0.0 g/l / 0.00 lb/gal		0.0 g/l / 0.00 lb/gal
• Other information No further relevant information available.	· Other information	

## **10 Stability and reactivity**

· Reactivity No further relevant information available.

· Chemical stability

· Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.



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<sup>(</sup>Contd. on page 6)

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- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available. · Hazardous decomposition products: No dangerous decomposition products known.

## **11** Toxicological information

- · Information on toxicological effects
- Acute toxicity:

#### · LD/LC50 values that are relevant for classification:

#### **ATE (Acute Toxicity Estimate)**

Oral		367 mg/kg (rat)
Dermal	LD50	>1,600 mg/kg (rat)
Inhalative	LC50/4 h	0.5 mg/L

#### 57-74-9 chlordane (ISO)

Oral	LD50	367 mg/kg (rat)
Dermal	LD50	>1,600 mg/kg (rat)

- · Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: No irritating effect.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:

#### · Carcinogenic categories

· IARC (International Agency for Research on Cancer)

#### · NTP (National Toxicology Program)

Substance is not listed.

#### · OSHA-Ca (Occupational Safety & Health Administration)

Substance is not listed.

### **12 Ecological information**

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:
- Water hazard class 3 (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

- Danger to drinking water if even extremely small quantities leak into the ground. · Results of PBT and vPvB assessment
- **PBT:** Not applicable.

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• **vPvB:** Not applicable.

• Other adverse effects No further relevant information available.

## **13 Disposal considerations**

· Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· Uncleaned packagings:

• Recommendation: Disposal must be made according to official regulations.

· UN-Number · DOT, IMDG, IATA	UN2810
· · · · · ·	0112010
· UN proper shipping name	
· DOT	Toxic, liquids, organic, n.o.s. (chlordane (ISO))
· IMDG	TOXIC LIQUID, ORGANIC, N.O.S. (chlordane (ISO)), MARIN
	POLLUTANT
·IATA	TOXIC LIQUID, ORGANIC, N.O.S. (chlordane (ISO))
· Transport hazard class(es)	
DOT, IATA	
· Class	6.1 Toxic substances
· Label	6.1
·IMDG	
Class • Label	6.1 Toxic substances 6.1
	0.1
· Packing group	
· DOT, IMDG, IATA	III
Environmental hazards:	
Marine pollutant:	Symbol (fish and tree)
· Special precautions for user	Warning: Toxic substances
Danger code (Kemler):	60
· EMS Number:	F-A,S-A
· Stowage Category	A



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	(Contd. of page
Stowage Code	SW2 Clear of living quarters.
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
DOT	
Quantity limitations	On passenger aircraft/rail: 60 L
- •	On cargo aircraft only: 220 L
Hazardous substance:	1 lbs, 0.454 kg
IMDG	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
UN "Model Regulation":	UN 2810 TOXIC LIQUID, ORGANIC, N.O.S. (CHLORDANE (ISO)), 6.1, III

## **15 Regulatory information**

 $\cdot$  Safety, health and environmental regulations/legislation specific for the substance or mixture  $\cdot$  Sara

· Section 355 (extremely hazardous substances):

Substance is listed.

• Section 313 (Specific toxic chemical listings):

Substance is listed.

· TSCA (Toxic Substances Control Act):

Substance is not listed.

· TSCA new (21st Century Act): (Substances not listed)

57-74-9 chlordane (ISO)

· Proposition 65

· Chemicals known to cause cancer:

Substance is listed.

 $\cdot$  Chemicals known to cause reproductive toxicity for females:

Substance is not listed.

 $\cdot$  Chemicals known to cause reproductive toxicity for males:

Substance is not listed.

· Chemicals known to cause developmental toxicity:

Substance is not listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

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B2

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· TLV (Threshold Limit Value established by ACGIH)

#### · NIOSH-Ca (National Institute for Occupational Safety and Health)

Substance is listed.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### **16 Other information**

The information contained in this document is based on Agilent's state of knowledge at the time of preparation. No warranty as to its accurateness, completeness or suitability for a particular purpose is expressed or implied.

- · Department issuing SDS: Document Control / Regulatory
- · Contact: regulatory@ultrasci.com
- Date of preparation / last revision 03/23/2019 / 2
- · Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Acute Tox. 3: Acute toxicity - Category 3

- Acute Tox. 2: Acute toxicity Category 2
- Carc. 2: Carcinogenicity Category 2
- \* Data compared to the previous version altered.



A3

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