1 Identification

- **Product identifier**
- **Trade name**: Hexachlorophene
- **Part number**: RCC-166
- **CAS Number**: 70-30-4
- **EC number**: 200-733-8
- **Index number**: 604-015-00-9
- **Relevant identified uses of the substance or mixture and uses advised against**

Reagents and Standards for Analytical Chemical Laboratory Use

- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier**: Agilent Technologies Australia Pty Ltd
  679 Springvale Road
  Mulgrave
  Victoria 3170, Australia
- **Further information obtainable from**: Telephone: 1800 802 402
e-mail: pdl-mds_author@agilent.com
- **Emergency telephone number**: CHEMTREC®: +(61) - 290372994

2 Hazard(s) Identification

- **Classification of the substance or mixture**
  - skull and crossbones
  - Acute Tox. 3 H301 Toxic if swallowed.
  - Acute Tox. 3 H311 Toxic in contact with skin.

- **Label elements**
- **GHS label elements**
  - The substance is classified and labelled according to the Globally Harmonised System (GHS).
- **Hazard pictograms**

- **Signal word** Danger
- **Hazard-determining components of labelling**: 2,2'-methylenebis-(3,4,6-tri-chlorophenol)
- **Hazard statements**
  - Toxic if swallowed.
  - Toxic in contact with skin.
- **Precautionary statements**
  - If medical advice is needed, have product container or label at hand.
  - Keep out of reach of children.

(Contd. on page 2)
Trade name: Hexachlorophene

Read label before use.  
Wash thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Wear protective gloves / protective clothing.  
IF SWALLOWED: Immediately call a POISON CENTER/ doctor.  
Rinse mouth.  
IF ON SKIN: Wash with plenty of water.  
Call a POISON CENTER/doctor if you feel unwell.  
Specific measures (see on this label).  
Remove/Take off immediately all contaminated clothing.  
Wash contaminated clothing before reuse.  
Store locked up.  
Dispose of contents/container in accordance with local/regional/national/international regulations.  

Other hazards
Results of PBT and vPvB assessment
PBT: Not applicable.  
vPvB: Not applicable.

3 Composition and Information on Ingredients

Chemical characterisation: Substances
CAS No. Description
70-30-4 2,2'-methylenebis-(3,4,6-tri-chlorophenol)
Identification number(s)
EC number: 200-733-8
Index number: 604-015-00-9

4 First Aid Measures

Description of first aid measures
General information:  
Immediately remove any clothing soiled by the product.  
In case of irregular breathing or respiratory arrest provide artificial respiration.  
After inhalation: 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; call for medical help immediately.  
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 extinguishing methods suitable to surrounding conditions.  
Special hazards arising from the substance or mixture No further relevant information available.
Trade name: Hexachlorophene

· Advice for firefighters
· Protective equipment: No special measures required.

6 Accidental Release Measures

· Personal precautions, protective equipment and emergency procedures Not required.
· Environmental precautions:
  Do not allow product to reach sewage system or any water course.
  Inform respective authorities in case of seepage into water course or sewage system.
  Do not allow to enter sewers/ surface or ground water.
· Methods and material for containment and cleaning up:
  Dispose contaminated material as waste according to item 13.
· 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.

7 Handling and Storage

· Handling:
· Precautions for safe handling Thorough dedusting.
· Information about fire - and explosion protection: No special measures required.
· 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 container tightly sealed.
· Specific end use(s) No further relevant information available.

8 Exposure controls and personal protection

· Additional information about design of technical facilities: No further data; see item 7.
· Control parameters
· Ingredients with limit values that require monitoring at the workplace: Not required.
· Additional information: The lists valid during the making 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.
· Respiratory protection:
  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.
Trade name: Hexachlorophene

· Protection of hands:
  Although not recommended for constant contact with the chemicals or for clean up, nitrile gloves 11-13mil thickness are recommended for normal use. The breakthrough time is 1hr. For cleaning a spill where there is direct contact of the chemical, butyl rubber gloves are recommended 12-15mil 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

· Eye protection: Not required.

9 Physical and Chemical Properties

· Information on basic physical and chemical properties
  · General Information
    · Appearance:
      Form: Solid
      Colour: Not determined.
    · Odour:
      Odour: Characteristic
      Odour threshold: Not determined.
  · pH-value: Not applicable.

· Change in condition
  · Melting point/freezing point: 166-167 °C
  · Initial boiling point and boiling range: Undetermined.

· Flash point: Not applicable.

· Flammability (solid, gas):
  · Product is not flammable.

· Decomposition temperature: Not determined.

· Auto-ignition temperature: Not determined.

· Explosive properties:
  · Product does not present an explosion hazard.

· Explosion limits:
  · Lower: Not determined.
  · Upper: Not determined.

· Vapour pressure: Not applicable.

· Density:
  · Not determined.
· Relative density
  · Not determined.
· Vapour density
  · Not applicable.
· Evaporation rate
  · Not applicable.

· Solubility in / Miscibility with water:
  · Insoluble.

· Partition coefficient: n-octanol/water:
  · Not determined.
Trade name: Hexachlorophene

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**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.
  - **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.

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**11 Toxicological Information**

- **Information on toxicological effects**
  - **Acute toxicity**
    - **LD/LC50 values relevant for classification:**
      - **ATE (Acute Toxicity Estimates)**
        - Oral LD50 60 mg/kg (rat)
        - Dermal LD50 300 mg/kg
        - Inhalative LC50/4 h 340 mg/L (rat)
      - 70-30-4 2,2'-methylenebis-(3,4,6-tri-chlorophenol)
        - Oral LD50 60 mg/kg (rat)
        - Inhalative LC50/4 h 340 mg/L (rat)
  - **Primary irritant effect:**
    - **Skin corrosion/irritation** No irritant effect.
    - **Serious eye damage/irritation** No irritating effect.
    - **Respiratory or skin sensitisation** No sensitising effects known.
Trade name: Hexachlorophene

- **Additional ecological information:**
- **General notes:**
  Water hazard class 3 (German Regulation) (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.
  - **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

### 13 Disposal considerations

- **Waste treatment methods**
  - **Recommendation**
    Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
  - **Recommendation:** Disposal must be made according to official regulations.

### 14 Transport information

<table>
<thead>
<tr>
<th>UN-Number</th>
<th>UN2875</th>
</tr>
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<tbody>
<tr>
<td><strong>UN proper shipping name</strong></td>
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</tr>
<tr>
<td>ADG</td>
<td>2875 HEXACHLOROPHENE, ENVIRONMENTALLY HAZARDOUS</td>
</tr>
<tr>
<td>IMDG, IATA</td>
<td>HEXACHLOROPHENE</td>
</tr>
</tbody>
</table>

- **Transport hazard class(es)**
  - **ADG**
    - **Class** 6.1 Toxic substances.
    - **Label** 6.1
  - **IMDG, IATA**
    - **Class** 6.1 Toxic substances.
    - **Label** 6.1
  - **Packing group**
    - **ADG, IMDG, IATA** III
### Environmental hazards:
- Special marking (ADG): Symbol (fish and tree)
- Special precautions for user: Warning: Toxic substances.
- Danger code (Kemler): 60
- EMS Number: 6.1-04
- Stowage Category: A
- Transport in bulk according to Annex II of Marpol and the IBC Code: Not applicable.

### Transport/Additional information:
- ADG
  - Limited quantities (LQ): 5 kg
  - Excepted quantities (EQ): Code: E1
    - Maximum net quantity per inner packaging: 30 g
    - Maximum net quantity per outer packaging: 1000 g
- Transport category: 2
- Tunnel restriction code: E
- IMDG
  - Limited quantities (LQ): 5 kg
  - Excepted quantities (EQ): Code: E1
    - Maximum net quantity per inner packaging: 30 g
    - Maximum net quantity per outer packaging: 1000 g
- UN "Model Regulation": UN 2875 HEXACHLOROPHENE, 6.1, III, ENVIRONMENTALLY HAZARDOUS

### 15 Regulatory information
- Safety, health and environmental regulations/legislation specific for the substance or mixture
  - Australian Inventory of Chemical Substances
    - Substance is listed.
  - Standard for the Uniform Scheduling of Medicines and Poisons
    - S2, S4, S6
  - Directive 2012/18/EU
  - Named dangerous substances - ANNEX I
    - Substance is not listed.
  - Seveso category E1 Hazardous to the Aquatic Environment
  - Qualifying quantity (tonnes) for the application of lower-tier requirements: 100 t
  - Qualifying quantity (tonnes) for the application of upper-tier requirements: 200 t
  - 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
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
IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
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
Acute Tox. 3: Acute toxicity – Category 3