

**Safety Data Sheet**  
according to WHS Regulations

Printing date 11.09.2018

Revision: 11.09.2018

Hazardous according to criteria of Australian Safety and Compensation Council.

**1 Identification**

- English additional compounds
- Product identifier
- Product Name: Pesticide Locking Standard, Part Number 5190-1441
- Part Number: 5190-1441
- Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
- Application of the substance / the mixture  
Reagents and Standards for Analytical Chemistry Laboratory Use  
3 x 1 ml ampoules
- Details of the supplier of the safety data sheet
- Manufacturer/Supplier:  
Agilent Technologies Australia Pty Ltd  
679 Springvale Road  
Muggrave  
Victoria 3170, Australia
- Further information obtainable from: product safety department
- Emergency telephone number: CHEMTREC®: +(61) - 290372994

**2 Hazard(s) Identification**

- Classification of the substance or mixture



flame

Flam. Liq. 2 H225 Highly flammable liquid and vapour.



health hazard

Repr. 2 H361 Suspected of damaging fertility or the unborn child.  
STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.  
Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.



Skin Irrit. 2 H315 Causes skin irritation.  
STOT SE 3 H336 May cause drowsiness or dizziness.

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



GHS02



GHS07



GHS08

- Signal word Danger
- Hazard-determining components of labelling:  
n-hexane
- Hazard statements  
H225 Highly flammable liquid and vapour.

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- H315 Causes skin irritation.  
 H361 Suspected of damaging fertility or the unborn child.  
 H336 May cause drowsiness or dizziness.  
 H373 May cause damage to organs through prolonged or repeated exposure.  
 H304 May be fatal if swallowed and enters airways.
- **Precautionary statements**  
 If medical advice is needed, have product container or label at hand.  
 Keep out of reach of children.  
 Read label before use.  
 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.  
 Specific treatment (see on this label).  
 Do NOT induce vomiting.  
 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 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: Mixtures**
- **Description:** Mixture of substances listed below with nonhazardous additions.

- **Dangerous components:**

110-54-3	n-hexane ⚠ Flam. Liq. 2, H225; ⚠ Repr. 2, H361; STOT RE 2, H373; Asp. Tox. 1, H304; ⚠ Skin Irrit. 2, H315; STOT SE 3, H336	99.997%
<b>CHEMICAL IDENTIFICATION OF THE SUBSTANCE/PREPARATION</b>		
5598-13-0	chlorpyrifos-methyl ⚠ Skin Sens. 1, H317	0.001%
62-73-7	dichlorvos (ISO) ⚠ Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 2, H330; ⚠ Skin Sens. 1, H317	0.001%
2385-85-5	dodecachloropentacyclo[5.2.1.0 <sup>2</sup> .6.0 <sup>3</sup> .9.0 <sup>4</sup> .8]decane ⚠ Carc. 2, H351; Repr. 2, H361; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312	0.001%

- **Additional information:** For the wording of the listed hazard phrases refer to section 16.

### 4 First Aid Measures

- **Description of first aid measures**
- **General information:** Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- **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.
- **After swallowing:** Do not give anything to eat or drink - Do not induce vomiting
- **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:** CO<sub>2</sub>, sand, extinguishing powder. Do not use water.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards arising from the substance or mixture** No further relevant information available.

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- **Advice for firefighters**
- **Protective equipment:** No special measures required.

## 6 Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures** Wear protective equipment. Keep unprotected persons away.
- **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:**
  - Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
  - Dispose contaminated material as waste according to item 13.
  - Ensure adequate ventilation.
  - Do not flush with water or aqueous cleansing agents
- **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**
  - Ensure good ventilation/exhaustion at the workplace.
  - Prevent formation of aerosols.
- **Information about fire - and explosion protection:**
  - Keep ignition sources away - Do not smoke.
  - Protect against electrostatic charges.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
  - **Requirements to be met by storerooms and receptacles:** Store in a cool location.
  - **Information about storage in one common storage facility:** Not required.
  - **Further information about storage conditions:**
    - Keep container tightly sealed.
    - Store in cool, dry conditions in well sealed receptacles.
- **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:**

**110-54-3 n-hexane**

WES | Long-term value: 72 mg/m<sup>3</sup>, 20 ppm

- **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.
  - Avoid contact with the skin.
  - Avoid contact with the eyes and skin.
- **Respiratory protection:**
  - In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

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**Protection of hands:**


Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

**Material of gloves**

Nitrile Glove

 Thickness:  $\geq 0.11$  mm

Breakthrough time: &gt; 480 minutes

**Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye protection:**


Tightly sealed goggles

**9 Physical and Chemical Properties**
**Information on basic physical and chemical properties**
**General Information**
**Appearance:**

<b>Form:</b>	Liquid
<b>Colour:</b>	Colourless
<b>Odour:</b>	Pungent
<b>Odour threshold:</b>	Not applicable.

**pH-value:** Not determined.

**Change in condition**

<b>Melting point/freezing point:</b>	-98°C (-144°F)
<b>Initial boiling point and boiling range:</b>	64.7°C (148.5°F)

**Flash point:** 9.7°C (49.5°F) - closed cup

**Flammability (solid, gas):** Not applicable.

**Ignition temperature:** 455.0°C (851.0°F) at 1,013 hPa (760 mmHg)

**Decomposition temperature:** Not applicable.

**Auto-ignition temperature:** Product is not selfigniting.

**Explosive properties:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

**Explosion limits:**

<b>Lower:</b>	6 Vol %
<b>Upper:</b>	36 Vol %

**Vapour pressure:** 130.3 hPa (97.7 mmHg) at 20.0°C (68.0°F)  
546.6 hPa (410.0 mmHg) at 50.0°C (122.0°F)  
169.27 hPa (126.96 mmHg) at 25.0°C (77.0°F)

**Density:** Not applicable.  
**Relative density:** 0.791 g/mL at 25°C (77°F)  
**Vapour density:** 1.11  
**Evaporation rate:** Not applicable.

**Solubility in / Miscibility with water:** Miscible

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· <b>Partition coefficient: n-octanol/water:</b>	log Pow: -0.77
· <b>Viscosity:</b>	
<b>Dynamic:</b>	Not applicable.
<b>Kinematic:</b>	Not applicable.
· <b>Solvent content:</b>	
<b>Organic solvents:</b>	100.0 %
<b>VOC (EC)</b>	100.00 %
<b>Solids content:</b>	0.0 %
· <b>Other information</b>	No further relevant information available.

## 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.

## 11 Toxicological Information

- **Information on toxicological effects**
- **Acute toxicity**
- **Primary irritant effect:**
- **Skin corrosion/irritation** Irritant to skin and mucous membranes.
- **Serious eye damage/irritation** No irritating effect.
- **Respiratory or skin sensitisation** No sensitising effects known.
- **Additional toxicological information:**  
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:  
Irritant
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**  
Repr. 2

## 12 Ecological Information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Toxic for fish
- **Additional ecological information:**
- **General notes:**  
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water  
Do not allow product to reach ground water, water course or sewage system.  
Danger to drinking water if even small quantities leak into the ground.  
Also poisonous for fish and plankton in water bodies.  
Toxic for aquatic organisms
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

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 · *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**

<ul style="list-style-type: none"> <li>· <i>UN-Number</i></li> <li>· <i>ADG, IMDG, IATA</i></li> </ul>	UN1208
<ul style="list-style-type: none"> <li>· <i>UN proper shipping name</i></li> <li>· <i>ADG</i></li> <li>· <i>IMDG</i></li> <li>· <i>IATA</i></li> </ul>	1208 HEXANES, ENVIRONMENTALLY HAZARDOUS HEXANES, MARINE POLLUTANT HEXANES
<ul style="list-style-type: none"> <li>· <i>Transport hazard class(es)</i></li> <li>· <i>ADG, IMDG</i></li> </ul>	
 	
<ul style="list-style-type: none"> <li>· <i>Class</i></li> <li>· <i>Label</i></li> </ul>	3 Flammable liquids. 3
<ul style="list-style-type: none"> <li>· <i>IATA</i></li> </ul>	
	
<ul style="list-style-type: none"> <li>· <i>Class</i></li> <li>· <i>Label</i></li> </ul>	3 Flammable liquids. 3
<ul style="list-style-type: none"> <li>· <i>Packing group</i></li> <li>· <i>ADG, IMDG, IATA</i></li> </ul>	II
<ul style="list-style-type: none"> <li>· <i>Environmental hazards:</i></li> <li>· <i>Marine pollutant:</i></li> <li>· <i>Special marking (ADG):</i></li> </ul>	Product contains environmentally hazardous substances: dodecachloropentacyclo[5.2.1.0 <sup>2</sup> ,6.0 <sup>2</sup> ,9.0 <sup>2</sup> ,8]decane, chlorpyrifos-methyl Symbol (fish and tree) Symbol (fish and tree)
<ul style="list-style-type: none"> <li>· <i>Special precautions for user</i></li> <li>· <i>Danger code (Kemler):</i></li> <li>· <i>EMS Number:</i></li> <li>· <i>Stowage Category</i></li> </ul>	Warning: Flammable liquids. 33 F-E,S-D E
<ul style="list-style-type: none"> <li>· <i>Transport in bulk according to Annex II of Marpol and the IBC Code</i></li> </ul>	Not applicable.
<ul style="list-style-type: none"> <li>· <i>Transport/Additional information:</i></li> </ul>	
<ul style="list-style-type: none"> <li>· <i>ADG</i></li> <li>· <i>Limited quantities (LQ)</i></li> <li>· <i>Excepted quantities (EQ)</i></li> </ul>	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
<ul style="list-style-type: none"> <li>· <i>Transport category</i></li> <li>· <i>Tunnel restriction code</i></li> </ul>	2 D/E

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<ul style="list-style-type: none"> <li>· <b>IMDG</b></li> <li>· <b>Limited quantities (LQ)</b></li> <li>· <b>Excepted quantities (EQ)</b></li> </ul>	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
<ul style="list-style-type: none"> <li>· <b>UN "Model Regulation":</b></li> </ul>	UN 1208 HEXANES, 3, II, ENVIRONMENTALLY HAZARDOUS

**15 Regulatory information**

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**

- **Australian Inventory of Chemical Substances**

All ingredients are listed.

- **Standard for the Uniform Scheduling of Medicines and Poisons**

5598-13-0	chlorpyrifos-methyl	S6
62-73-7	dichlorvos (ISO)	S5, S6, S7
2385-85-5	dodecachloropentacyclo[5.2.1.0 <sup>2</sup> .6.0 <sup>3</sup> .9.0 <sup>4</sup> .8]decane	S7

- **GHS label elements** The product is classified and labelled according to the Globally Harmonised System (GHS).

- **Hazard pictograms**



GHS02



GHS07



GHS08

- **Signal word** Danger

- **Hazard-determining components of labelling:**

*n*-hexane

- **Hazard statements**

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H361 Suspected of damaging fertility or the unborn child.

H336 May cause drowsiness or dizziness.

H373 May cause damage to organs through prolonged or repeated exposure.

H304 May be fatal if swallowed and enters airways.

- **Precautionary statements**

If medical advice is needed, have product container or label at hand.

Keep out of reach of children.

Read label before use.

IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

Specific treatment (see on this label).

Do NOT induce vomiting.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Directive 2012/18/EU**

- **Named dangerous substances - ANNEX I** None of the ingredients is listed.

- **Seveso category**

E2 Hazardous to the Aquatic Environment

P5c FLAMMABLE LIQUIDS

- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 200 t

- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t

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

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### 16 Other information

*Disclaimer: 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.*

#### · **Relevant phrases**

- H225 Highly flammable liquid and vapour.
- H301 Toxic if swallowed.
- H302 Harmful if swallowed.
- H304 May be fatal if swallowed and enters airways.
- H311 Toxic in contact with skin.
- H312 Harmful in contact with skin.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H330 Fatal if inhaled.
- H336 May cause drowsiness or dizziness.
- H351 Suspected of causing cancer.
- H361 Suspected of damaging fertility or the unborn child.
- H373 May cause damage to organs through prolonged or repeated exposure.

#### · **Department issuing SDS: product safety department**

#### · **Contact:**

Agilent Technologies Australia Pty Ltd  
1800 802 402

#### · **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  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
VOC: Volatile Organic Compounds (USA, EU)  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
Flam. Liq. 2: Flammable liquids – Category 2  
Skin Irrit. 2: Skin corrosion/irritation – Category 2  
Repr. 2: Reproductive toxicity – Category 2  
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3  
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2  
Asp. Tox. 1: Aspiration hazard – Category 1