

# Safety Data Sheet

## acc. to OSHA HCS

Printing date 03/30/2019

Version Number 2

Reviewed on 03/30/2019

### 1 Identification

- **Product identifier**
- **Trade name:** Organochlorine Pesticides Standard (1X1 mL)
- **Part number:** PPM-508D-1
- **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**



GHS02 Flame

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



GHS06 Skull and crossbones

Acute Tox. 3 H311 Toxic in contact with skin.



GHS08 Health hazard

Carc. 2 H351 Suspected of causing cancer.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

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



GHS02



GHS06



GHS07



GHS08

- **Signal word** Danger

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**· Hazard-determining components of labeling:**

tert-butyl methyl ether  
hexachlorobenzene  
chlorpyrifos (ISO)  
cis-chlordane  
permethrin (ISO)  
chlorothalonil (ISO)  
5-ethoxy-3-trichloromethyl-1,2,4-thiadiazole  
propachlor (ISO)  
trifluralin (ISO) (containing < 0,5 ppm NPDA)

**· Hazard statements**

Highly flammable liquid and vapor.  
Toxic in contact with skin.  
Causes skin irritation.  
May cause an allergic skin reaction.  
Suspected of causing cancer.

**· Precautionary statements**

Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
Keep container tightly closed.  
Ground/bond container and receiving equipment.  
Use explosion-proof electrical/ventilating/lighting/equipment.  
Use only non-sparking tools.  
Take precautionary measures against static discharge.  
Avoid breathing dust/fume/gas/mist/vapors/spray  
Wash thoroughly after handling.  
Contaminated work clothing must not be allowed out of the workplace.  
Wear protective gloves/protective clothing/eye protection/face protection.  
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
If exposed or concerned: Get medical advice/attention.  
Call a poison center/doctor if you feel unwell.  
Specific treatment (see on this label).  
Take off immediately all contaminated clothing and wash it before reuse.  
If skin irritation or rash occurs: Get medical advice/attention.  
In case of fire: Use for extinction: CO<sub>2</sub>, powder or water spray.  
Store in a well-ventilated place. Keep cool.  
Store locked up.  
Dispose of contents/container in accordance with local/regional/national/international regulations.

**· Classification system:**
**· NFPA ratings (scale 0 - 4)**

**· HMIS-ratings (scale 0 - 4)**


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

## 3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

### · **Dangerous components:**

1634-04-4	tert-butyl methyl ether	98.244%
52645-53-1	permethrin (ISO)	0.2703%
1897-45-6	chlorothalonil (ISO)	0.135%
2593-15-9	5-ethoxy-3-trichloromethyl-1,2,4-thiadiazole	0.135%
118-74-1	hexachlorobenzene	0.135%
5103-74-2	trans-chlordane	0.135%
1918-16-7	propachlor (ISO)	0.135%
1582-09-8	trifluralin (ISO) (containing < 0,5 ppm NPDA)	0.135%

## 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:**  
Supply fresh air and to be sure call for a 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:** If symptoms persist consult doctor.
- **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>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **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 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:

1634-04-4	tert-butyl methyl ether	50 ppm
1897-45-6	chlorothalonil (ISO)	0.13 mg/m <sup>3</sup>
510-15-6	chlorobenzilate (ISO)	8.4 mg/m <sup>3</sup>
118-74-1	hexachlorobenzene	0.006 mg/m <sup>3</sup>
2921-88-2	chlorpyrifos (ISO)	0.6 mg/m <sup>3</sup>
1582-09-8	trifluralin (ISO) (containing < 0,5 ppm NPDA)	1.2 mg/m <sup>3</sup>

### · PAC-2:

1634-04-4	tert-butyl methyl ether	570 ppm
1897-45-6	chlorothalonil (ISO)	1.4 mg/m <sup>3</sup>
510-15-6	chlorobenzilate (ISO)	92 mg/m <sup>3</sup>
118-74-1	hexachlorobenzene	14 mg/m <sup>3</sup>
2921-88-2	chlorpyrifos (ISO)	15 mg/m <sup>3</sup>
1582-09-8	trifluralin (ISO) (containing < 0,5 ppm NPDA)	13 mg/m <sup>3</sup>

### · PAC-3:

1634-04-4	tert-butyl methyl ether	5300* ppm
1897-45-6	chlorothalonil (ISO)	8.6 mg/m <sup>3</sup>
510-15-6	chlorobenzilate (ISO)	550 mg/m <sup>3</sup>
118-74-1	hexachlorobenzene	91 mg/m <sup>3</sup>
2921-88-2	chlorpyrifos (ISO)	44 mg/m <sup>3</sup>
1582-09-8	trifluralin (ISO) (containing < 0,5 ppm NPDA)	78 mg/m <sup>3</sup>

## 7 Handling and storage

- **Handling:**
- **Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Open and handle receptacle with care.

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Prevent formation of aerosols.

- **Information about protection against explosions and fires:**

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Keep respiratory protective device available.

- **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 receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

- **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:**

**1634-04-4 tert-butyl methyl ether**

TLV Long-term value: 180 mg/m<sup>3</sup>, 50 ppm

**118-74-1 hexachlorobenzene**

TLV Long-term value: 0.002 mg/m<sup>3</sup>  
Skin

- **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 skin.

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

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- **Penetration time of glove material**  
For normal use: nitrile rubber: 1 hour  
For direct contact with the chemical: butyl rubber: >4 hours
- **Eye protection:**



Tightly sealed goggles

## 9 Physical and chemical properties

### · Information on basic physical and chemical properties

#### · General Information

#### · Appearance:

Form:	Fluid
Color:	Colorless
Odor:	Characteristic
Odor threshold:	Not determined.

· pH-value: Not determined.

#### · Change in condition

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	55 °C (131 °F)

· Flash point: 0 °C (32 °F)

· Flammability (solid, gaseous): Not applicable.

· Ignition temperature: 374 °C (705.2 °F)

· Decomposition temperature: Not determined.

· Auto igniting: Product is not selfigniting.

· Danger of explosion: Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

#### · Explosion limits:

Lower:	1.6 Vol %
Upper:	8.4 Vol %

· Vapor pressure at 20 °C (68 °F): 279 hPa (209.3 mm Hg)

· Density at 20 °C (68 °F): 0.74 g/cm<sup>3</sup> (6.1753 lbs/gal)

· Relative density: Not determined.

· Vapor density: Not determined.

· Evaporation rate: Not determined.

#### · Solubility in / Miscibility with

Water at 25 °C (77 °F): 51 g/l

· Partition coefficient (n-octanol/water): Not determined.

#### · Viscosity:

Dynamic: Not determined.

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<b>Kinematic:</b>	Not determined.
· <b>Solvent content:</b>	
<b>Organic solvents:</b>	98.2 %
<b>VOC content:</b>	98.24 %
	982.4 g/l / 8.20 lb/gal
<b>Solids content:</b>	1.4 %
· <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:**

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

### ATE (Acute Toxicity Estimate)

Oral	LD50	3,730 mg/kg
Dermal	LD50	998 mg/kg
Inhalative	LC50/4 h	4,113 mg/L (rat)

### 1634-04-4 tert-butyl methyl ether

Oral	LD50	4,000 mg/kg (rat)
Dermal	LD50	1,000 mg/kg (rabbit)
Inhalative	LC50/4 h	23,576 mg/L (rat)

### 1897-45-6 chlorothalonil (ISO)

Oral	LD50	10,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit)
Inhalative	LC50/4 h	220 mg/L (rat)

### 2593-15-9 5-ethoxy-3-trichloromethyl-1,2,4-thiadiazole

Oral	LD50	1,077 mg/kg (rat)
Dermal	LD50	1,700 mg/kg (rabbit)
Inhalative	LC50/4 h	5.7 mg/L (rat)

### 510-15-6 chlorobenzilate (ISO)

Oral	LD50	700 mg/kg (rat)
Dermal	LD50	>1,000 mg/kg (rabbit)

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**118-74-1 hexachlorobenzene**

Oral	LD50	10,000 mg/kg (rat)
Inhalative	LC50/4 h	3,600 mg/L (rat)

**2921-88-2 chlorpyrifos (ISO)**

Oral	LD50	60 mg/kg (mouse) 135 mg/kg (rat)
Dermal	LD50	120 mg/kg (mouse) 202 mg/kg (rat)
Inhalative	LC50/4 h	>200 mg/L (rat)

**5103-71-9 cis-chlordane**

Oral	LD50	500 mg/kg (rat)
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**5103-74-2 trans-chlordane**

Oral	LD50	275 mg/kg (mouse)
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**1918-16-7 propachlor (ISO)**

Oral	LD50	710 mg/kg (rat)
Dermal	LD50	380 mg/kg (rabbit)

**1582-09-8 trifluralin (ISO) (containing < 0,5 ppm NPDA)**

Oral	LD50	1,930 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rat)

**· Primary irritant effect:**
**· on the skin:** Irritant to skin and mucous membranes.

**· on the eye:** No irritating effect.

**· Sensitization:** Sensitization possible through skin contact.

**· Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

Toxic

Irritant

**· Carcinogenic categories**
**· IARC (International Agency for Research on Cancer)**

1634-04-4	tert-butyl methyl ether	3
52645-53-1	permethrin (ISO)	3
1897-45-6	chlorothalonil (ISO)	2B
510-15-6	chlorobenzilate (ISO)	3
118-74-1	hexachlorobenzene	2B
1582-09-8	trifluralin (ISO) (containing < 0,5 ppm NPDA)	3

**· NTP (National Toxicology Program)**

118-74-1	hexachlorobenzene	R
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**· OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

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### 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.
- **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.

### 14 Transport information

- |   |  |
|---|--|
| · <b>Not Regulated, De minimus Quantities</b>                                       | -  |
| · <b>UN-Number</b>  |  |
| · <b>DOT, IMDG, IATA</b>  | UN1993   |
| · <b>UN proper shipping name</b>  |  |
| · <b>DOT</b>  | Flammable liquids, n.o.s. (Methyl tert-butyl ether)                                      |
| · <b>IMDG</b>   | FLAMMABLE LIQUID, N.O.S. (METHYL tert-BUTYL ETHER, chlorpyrifos (ISO)), MARINE POLLUTANT |
| · <b>IATA</b>   | FLAMMABLE LIQUID, N.O.S. (METHYL tert-BUTYL ETHER)                                       |
| · <b>Transport hazard class(es)</b>   |  |
| · <b>DOT, IATA</b>  |  |
|  |  |
| · <b>Class</b>  | 3 Flammable liquids  |

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· <b>Label</b>	3
· <b>IMDG</b>	
 	
· <b>Class</b>	3 Flammable liquids
· <b>Label</b>	3
· <b>Packing group</b>	
· <b>DOT, IMDG, IATA</b>	II
· <b>Environmental hazards:</b>	Product contains environmentally hazardous substances: permethrin (ISO), chlorpyrifos (ISO)
· <b>Marine pollutant:</b>	Symbol (fish and tree)
· <b>Special precautions for user</b>	Warning: Flammable liquids
· <b>Danger code (Kemler):</b>	33
· <b>EMS Number:</b>	F-E, S-E
· <b>Stowage Category</b>	B
· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>DOT</b>	
· <b>Quantity limitations</b>	On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L
· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	1L
· <b>Excepted quantities (EQ)</b>	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· <b>UN "Model Regulation":</b>	UN 1993 FLAMMABLE LIQUID, N.O.S. (METHYL TERT-BUTYL ETHER), 3, II, ENVIRONMENTALLY HAZARDOUS

## 15 Regulatory information

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

### · Section 355 (extremely hazardous substances):

None of the ingredients is listed.

### · Section 313 (Specific toxic chemical listings):

1634-04-4	tert-butyl methyl ether
52645-53-1	permethrin (ISO)
1897-45-6	chlorothalonil (ISO)
510-15-6	chlorobenzilate (ISO)
118-74-1	hexachlorobenzene

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1918-16-7	propachlor (ISO)
1582-09-8	trifluralin (ISO) (containing < 0,5 ppm NPDA)

**· TSCA (Toxic Substances Control Act):**

1634-04-4	tert-butyl methyl ether
1897-45-6	chlorothalonil (ISO)
510-15-6	chlorobenzilate (ISO)
118-74-1	hexachlorobenzene

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

52645-53-1	permethrin (ISO)
1897-45-6	chlorothalonil (ISO)
2593-15-9	5-ethoxy-3-trichloromethyl-1,2,4-thiadiazole
5103-74-2	trans-chlordane
1918-16-7	propachlor (ISO)
1582-09-8	trifluralin (ISO) (containing < 0,5 ppm NPDA)

**· Proposition 65**
**· Chemicals known to cause cancer:**

1897-45-6	chlorothalonil (ISO)
2593-15-9	5-ethoxy-3-trichloromethyl-1,2,4-thiadiazole
510-15-6	chlorobenzilate (ISO)
118-74-1	hexachlorobenzene
1918-16-7	propachlor (ISO)

**· Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

**· Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

**· Chemicals known to cause developmental toxicity:**

118-74-1	hexachlorobenzene
2921-88-2	chlorpyrifos (ISO)

**· Carcinogenic categories**
**· EPA (Environmental Protection Agency)**

118-74-1	hexachlorobenzene	B2
1582-09-8	trifluralin (ISO) (containing < 0,5 ppm NPDA)	C

**· TLV (Threshold Limit Value established by ACGIH)**

1634-04-4	tert-butyl methyl ether	A3
118-74-1	hexachlorobenzene	A3
2921-88-2	chlorpyrifos (ISO)	A4

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

None of the ingredients is listed.

**· National regulations:**
**· Additional classification according to Decree on Hazardous Materials:**  
Carcinogenic hazardous material group III (dangerous).

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· **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** 03/30/2019 / 1· **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

ELINCS: European List of Notified 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 &amp; Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Flam. Liq. 2: Flammable liquids – Category 2

Acute Tox. 3: Acute toxicity – Category 3

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Skin Sens. 1: Skin sensitisation – Category 1

Carc. 2: Carcinogenicity – Category 2

· **\* Data compared to the previous version altered.**

US