

Safety Data Sheet

according to HPR, Schedule 1

Printing date 07/05/2024

Version Number 4

Reviewed on 07/05/2024

1 Identification

- **Product identifier**
- **Trade name:** Organochlorine Pesticides Standard (1X1 mL)
- **Part number:** PPM-808G-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 identification

- **Classification of the substance or mixture**



GHS02 Flame

Flammable Liquids - Category 2

H225 Highly flammable liquid and vapour.



GHS08 Health hazard

Respiratory Sensitizer - Category 1

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Carcinogenicity - Category 1B

H350 May cause cancer.

Reproductive Toxicity - Category 1B

H360 May damage fertility or the unborn child.

Specific Target Organ Toxicity - Repeated Exposure - Category 2

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

Aspiration Hazard - Category 1

H304 May be fatal if swallowed and enters airways.



GHS07

Skin Irritation - Category 2

H315 Causes skin irritation.

Skin Sensitizer - Category 1

H317 May cause an allergic skin reaction.

Specific Target Organ Toxicity - Single Exposure - Category 3

H336 May cause drowsiness or dizziness.

- **Label elements**

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

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· Hazard pictograms



· Signal word Danger

· Hazard-determining components of labeling:

toluene
 captafol (ISO)
 n-hexane
 mirex
 quintozone (ISO)
 perthane
 dicofol (ISO)
 trifluralin (ISO) (containing < 0,5 ppm NPDA)
 chlorothalonil (ISO)
 propachlor (ISO)
 5-ethoxy-3-trichloromethyl-1,2,4-thiadiazole
 alachlor (ISO)
 permethrin (ISO)

· Hazard statements

H225 Highly flammable liquid and vapour.
 H315 Causes skin irritation.
 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 H317 May cause an allergic skin reaction.
 H350 May cause cancer.
 H360 May damage 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

P101 If medical advice is needed, have product container or label at hand.
 P102 Keep out of reach of children.
 P103 Read label before use.
 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P241 Use explosion-proof [electrical/ventilating/lighting] equipment.
 P260 Do not breathe dust/fume/gas/mist/vapours/spray.
 P284 [In case of inadequate ventilation] wear respiratory protection.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P240 Ground and bond container and receiving equipment.
 P242 Use non-sparking tools.
 P243 Take actions to prevent static discharges.
 P264 Wash thoroughly after handling.
 P271 Use only outdoors or in a well-ventilated area.
 P272 Contaminated work clothing should not be allowed out of the workplace.
 P201 Obtain special instructions before use.
 P202 Do not handle until all safety precautions have been read and understood.
 P301+P310 If swallowed: Immediately call a poison center/doctor.
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

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P321 Specific treatment (see on this label).
 P342+P311 If experiencing respiratory symptoms: Call a poison center/doctor.
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P312 Call a poison center/doctor if you feel unwell.
 P308+P313 IF exposed or concerned: Get medical advice/attention.
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
 P314 Get medical advice/attention if you feel unwell.
 P331 Do NOT induce vomiting.
 P370+P378 In case of fire: Use CO₂, powder or water spray to extinguish.
 P362+P364 Take off contaminated clothing and wash it before reuse.
 P405 Store locked up.
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.
 P403+P235 Store in a well-ventilated place. Keep cool.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



· **HMIS-ratings (scale 0 - 4)**



3 Composition/Information on ingredients

· **Chemical characterization: Mixtures**

· **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**

108-88-3	toluene	30-60% w/w *
110-54-3	n-hexane	30-60% w/w *
72-56-0	perthane	0.1-1% w/w *
82-68-8	quintozene (ISO)	0.1-1% w/w *
115-32-2	dicofol (ISO)	0.1-1% w/w *
117-80-6	dichlone (ISO)	0.1-1% w/w *
1582-09-8	trifluralin (ISO) (containing < 0,5 ppm NPDA)	0.1-1% w/w *
1836-75-5	nitrofen (ISO)	0.1-1% w/w *
1897-45-6	chlorothalonil (ISO)	0.1-1% w/w *
1918-16-7	propachlor (ISO)	0.1-1% w/w *
2385-85-5	mirex	0.1-1% w/w *
2425-06-1	captafol (ISO)	0.1-1% w/w *
2593-15-9	5-ethoxy-3-trichloromethyl-1,2,4-thiadiazole	0.1-1% w/w *
15972-60-8	alachlor (ISO)	0.1-1% w/w *

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Trade name: Organochlorine Pesticides Standard (1X1 mL)

52645-53-1 permethrin (ISO)

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0.1-1% w/w *

* Actual concentration ranges are withheld as a trade secret.

4 First-aid measures

· Description of first aid measures**· General information:**

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· 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.**· 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:**CO₂, 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**

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.

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 section 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.

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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 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 section 7.
- **Control parameters**

Components with limit values that require monitoring at the workplace:
108-88-3 toluene

EL	TWA: 20 ppm
R	
EV	TWA: 20 ppm

110-54-3 n-hexane

EL	TWA: 20 ppm
Skin	
EV	TWA: 176 mg/m ³ , 50 ppm

82-68-8 quitozene (ISO)

EL	TWA: 0.5 mg/m ³
EV	TWA: 0.5 mg/m ³

1897-45-6 chlorothalonil (ISO)

EL	IARC 2B
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2425-06-1 captafol (ISO)

EL	TWA: 0.1 mg/m ³
	IARC 2A; S(D), S(R)
EV	TWA: 0.1 mg/m ³
Skin	

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15972-60-8 alachlor (ISO)

EL	TWA: 1.0 mg/m ³ vapour and inhalable aerosol, S(D)
EV	TWA: 1 mg/m ³ inhalable vapour and aerosol

- **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
- **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:** According to product specification
- **Odor:** Characteristic
- **Odor threshold:** Not determined.

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· pH-value:	Not determined.
· Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	69 °C
· Flash point:	-22 °C
· Flammability (solid, gaseous):	Highly flammable.
· Auto igniting:	240 °C
· Decomposition temperature:	Not determined.
· Ignition temperature:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· Explosion limits:	
Lower:	1.2 Vol %
Upper:	7.4 Vol %
· Vapor pressure at 20 °C:	110 hPa
· Vapor pressure at 50 °C:	540 hPa
· Density:	Not determined.
· Relative density	Not determined.
· Vapor density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with Water:	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	97.9 %
Solids content:	2.1 %
· Other information	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.

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· **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	179,252 mg/kg (rat)
Dermal	LD50	164,690 mg/kg (rabbit)
Inhalative	LC50/4 h	4,238 mg/L (rat)

108-88-3 toluene

Oral	LD50	5,580 mg/kg (rat)
Dermal	LD50	12,124 mg/kg (rabbit)
Inhalative	LC50/4 h	5,320 mg/L (mouse) 28.1 mg/L (rat)

110-54-3 n-hexane

Oral	LD50	5,000 mg/kg (rat)
Dermal	LD50	3,000 mg/kg (rabbit)

72-56-0 perthane

Oral	LD50	6,600 mg/kg (rat)
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82-68-8 quitozene (ISO)

Oral	LD50	1,100 mg/kg (rat)
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115-32-2 dicofol (ISO)

Oral	LD50	575 mg/kg (rat)
Dermal	LD50	1,870 mg/kg (rat) 1,870 mg/kg (rabbit)
Inhalative	LC50/4 h	>5,000 mg/L (rat)

117-80-6 dichlone (ISO)

Oral	LD50	160 mg/kg (rat)
Dermal	LD50	500 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)

1836-75-5 nitrofen (ISO)

Oral	LD50	740 mg/kg (rat)
Dermal	LD50	5,000 mg/kg (rabbit)

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)

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1918-16-7 propachlor (ISO)

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

2385-85-5 mirex

Oral	LD50	235 mg/kg (rat)
Dermal	LD50	800 mg/kg (rabbit)

2425-06-1 captafol (ISO)

Oral	LD50	2,500 mg/kg (rat)
Dermal	LD50	15,400 mg/kg (rabbit)

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)

15972-60-8 alachlor (ISO)

Oral	LD50	930 mg/kg (rat)
Dermal	LD50	3,500 mg/kg (rabbit)

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

· on the eye: No irritating effect.

· Sensitization:

Sensitization possible through inhalation.

Sensitization possible through skin contact.

· Additional toxicological information:

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

Harmful

Irritant

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

108-88-3	toluene	3
82-68-8	quintozone (ISO)	3
115-32-2	dicofol (ISO)	3
1582-09-8	trifluralin (ISO) (containing < 0,5 ppm NPDA)	3
1836-75-5	nitrofen (ISO)	2B
1897-45-6	chlorothalonil (ISO)	2B
2385-85-5	mirex	2B
2425-06-1	captafol (ISO)	2A
52645-53-1	permethrin (ISO)	3

· NTP (National Toxicology Program)

1836-75-5	nitrofen (ISO)	R
2385-85-5	mirex	R
2425-06-1	captafol (ISO)	R

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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:

1836-75-5 nitrofen (ISO)

- **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

- | | |
|---|--|
| · Not Regulated, De minimis Quantities | - |
| · UN-Number | UN1993 |
| · DOT/TDG, ADR, IMDG, IATA | UN1993 |
| · UN proper shipping name | Flammable liquids, n.o.s. (Hexanes, Toluene) |
| · DOT/TDG | 1993 Flammable liquids, n.o.s. (Hexanes, Toluene), |
| · ADR | ENVIRONMENTALLY HAZARDOUS |
| · IMDG | FLAMMABLE LIQUID, N.O.S. (HEXANES, TOLUENE), |
| | MARINE POLLUTANT |
| · IATA | FLAMMABLE LIQUID, N.O.S. (HEXANES, TOLUENE) |

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· **Transport hazard class(es)**

· **DOT/TDG (Transport dangerous goods):**

· **Class**

3 Flammable liquids

· **Label**

3

· **ADR, IMDG**

· **Class**

3 Flammable liquids

· **Label**

3

· **IATA**

· **Class**

3 Flammable liquids

· **Label**

3

· **Packing group**

· **DOT/TDG, ADR, IMDG, IATA**

II

· **Environmental hazards:**

Product contains environmentally hazardous substances: nitrofen (ISO), n-hexane

· **Marine pollutant:**

Symbol (fish and tree)

· **Special marking (ADR):**

Symbol (fish and tree)

· **Special precautions for user**

Warning: Flammable liquids

· **Hazard identification number (Kemler code):** 33

· **EMS Number:**

F-E,S-E

· **Stowage Category**

B

· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

· **Transport/Additional information:**

· **DOT/TDG**

· **Quantity limitations**

On passenger aircraft/rail: 5 L
On cargo aircraft only: 60 L

· **ADR**

· **Excepted quantities (EQ)**

Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

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- | | |
|--|---|
| <ul style="list-style-type: none"> · IMDG · Limited quantities (LQ) · Excepted quantities (EQ) | <p>1L
Code: E2
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 500 ml</p> |
| <ul style="list-style-type: none"> · UN "Model Regulation": | <p>UN 1993 FLAMMABLE LIQUID, N.O.S. (HEXANES, TOLUENE), 3, II, ENVIRONMENTALLY HAZARDOUS</p> |

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):**

108-88-3	toluene
110-54-3	n-hexane
82-68-8	quintozene (ISO)
115-32-2	dicofol (ISO)
1582-09-8	trifluralin (ISO) (containing < 0,5 ppm NPDA)
1836-75-5	nitrofen (ISO)
1897-45-6	chlorothalonil (ISO)
1918-16-7	propachlor (ISO)
15972-60-8	alachlor (ISO)
52645-53-1	permethrin (ISO)

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

108-88-3	toluene	ACTIVE
110-54-3	n-hexane	ACTIVE
82-68-8	quintozene (ISO)	ACTIVE
117-80-6	dichlone (ISO)	ACTIVE
1836-75-5	nitrofen (ISO)	ACTIVE
1897-45-6	chlorothalonil (ISO)	ACTIVE

· **Canadian substance listings:**

· **Canadian Domestic Substances List (DSL)**

108-88-3	toluene
110-54-3	n-hexane
117-80-6	dichlone (ISO)
1582-09-8	trifluralin (ISO) (containing < 0,5 ppm NPDA)
1897-45-6	chlorothalonil (ISO)
2675-77-6	chloroneb

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· Canadian Non-Domestic Substances List (NDSL)

82-68-8	quintozene (ISO)
1836-75-5	nitrofen (ISO)

· Canadian Ingredient Disclosure list (limit 0.1%)

None of the ingredients is listed.

· Canadian Ingredient Disclosure list (limit 1%)

All ingredients are listed.

· National regulations:**· Additional classification according to Decree on Hazardous Materials:**

Carcinogenic hazardous material group III (dangerous).

· Information about limitation of use:

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation.

Exceptions can be made by the authorities in certain cases.

· 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:** pdl-acg-regulatory-cq@agilent.com**· Date of the latest revision of the safety data sheet** 07/05/2024 / 3**· Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

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)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

· * Data compared to the previous version altered.

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