

Safety Data Sheet

according to HPR, Schedule 1

Printing date 04/22/2019

Version Number 1

Reviewed on 04/22/2019

1 Identification

- **Product identifier**
- **Trade name:** Appendix IX Pesticides / Herbicides Standard (1 x 1 mL)
- **Part number:** PPM-650-1
- **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.



GHS06 Skull and crossbones

Acute Toxicity (Oral) - Category 3

H301 Toxic if swallowed.

Acute Toxicity (Dermal) – Category 3

H311 Toxic in contact with skin.



GHS08 Health hazard

Carcinogenicity - Category 1B

H350 May cause cancer.



GHS07

Acute Toxicity (Inhalation) - Category 4

H332 Harmful if inhaled.

Eye Irritation - Category 2A

H319 Causes serious eye 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:

acetone
fensulfothion (ISO)
azinphos-methyl (ISO)
captan (ISO)
malathion (ISO)
phosalone

· Hazard statements

Highly flammable liquid and vapour.
Toxic if swallowed or in contact with skin.
Harmful if inhaled.
Causes serious eye irritation.
May cause an allergic skin reaction.
May cause cancer.
May cause drowsiness or dizziness.

· Precautionary statements

If medical advice is needed, have product container or label at hand.
Keep out of reach of children.
Read label before use.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Ground and bond container and receiving equipment.
Use explosion-proof [electrical/ventilating/lighting] equipment.
Use non-sparking tools.
Take actions to prevent static discharges.
Avoid breathing dust/fume/gas/mist/vapours/spray.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Contaminated work clothing should not be allowed out of the workplace.
Wear protective gloves/protective clothing/eye protection/face protection.
If swallowed: Immediately call a poison center/doctor.
Rinse mouth.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing.
IF exposed or concerned: Get medical advice/attention.
Call a poison center/doctor if you feel unwell.
Take off contaminated clothing and wash it before reuse.
Specific measures (see on this label).
If skin irritation or rash occurs: Get medical advice/attention.

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If eye irritation persists: Get medical advice/attention.

Wash contaminated clothing before reuse.

In case of fire: Use for extinction: CO₂, powder or water spray.

Store in a well-ventilated place. Keep container tightly closed.

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)**



3 Composition/Information on ingredients

· **Chemical characterization: Mixtures**

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

· **Dangerous components:**

67-64-1	acetone	93.933% w/w
86-50-0	azinphos-methyl (ISO)	0.253% w/w
2425-06-1	captafol (ISO)	0.253% w/w
133-06-2	captan (ISO)	0.253% w/w
63-25-2	carbaryl (ISO)	0.253% w/w
121-75-5	malathion (ISO)	0.253% w/w
2310-17-0	phosalone	0.253% w/w
95-06-7	sulfallate (ISO)	0.253% w/w

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.

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. If symptoms persist, consult a doctor.

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- **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 Firefighting 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** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** Mouth respiratory protective device.

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.

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.

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· **Specific end use(s)** No further relevant information available.

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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:**

67-64-1 acetone

EL Short-term value: 500 ppm
Long-term value: 250 ppm

EV Short-term value: 750 ppm
Long-term value: 500 ppm

86-50-0 azinphos-methyl (ISO)

EL Long-term value: 0.2 mg/m³
vapour + inhalable aerosol, Skin; S(D)

EV Long-term value: 0.2 mg/m³
inhalable, vapour and aerosol, Skin

2425-06-1 captafol (ISO)

EL Long-term value: 0.1 mg/m³
Skin; IARC 2A; S(D), S(R)

EV Long-term value: 0.1 mg/m³
Skin

133-06-2 captan (ISO)

EL Long-term value: 5 mg/m³
inhalable; S(D)

EV Long-term value: 5 mg/m³
inhalable

· **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.

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.

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- **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.

- **pH-value:** Not determined.

- **Change in condition**

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: 56 °C

- **Flash point:** -17 °C

- **Flammability (solid, gaseous):** Not applicable.

- **Ignition temperature:** 465 °C

- **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: 2.6 Vol %

Upper: 13 Vol %

- **Vapor pressure at 20 °C:** 245.3 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.

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· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	96.0 %
Solids content:	3.3 %
· 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.
- **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	140 mg/kg
Dermal	LD50	371 mg/kg
Inhalative	LC50/4 h	15 mg/L

67-64-1 acetone

Oral	LD50	5,800 mg/kg (rat)
Dermal	LD50	20,000 mg/kg (rabbit)

86-50-0 azinphos-methyl (ISO)

Oral	LD50	7 mg/kg (rat)
Dermal	LD50	250 mg/kg (rat)

2425-06-1 captafol (ISO)

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

133-06-2 captan (ISO)

Oral	LD50	9,000 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rat)

63-25-2 carbaryl (ISO)

Oral	LD50	230 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit)

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1563-66-2 carbofuran (ISO)

Oral	LD50	5 mg/kg (rat)
Dermal	LD50	120 mg/kg (rat)

56-72-4 coumaphos (ISO)

Oral	LD50	13 mg/kg (rat)
Dermal	LD50	860 mg/kg (rat)
		500 mg/kg (rabbit)

7700-17-6 crotoxyphos (ISO)

Oral	LD50	38.4 mg/kg (rat)
Dermal	LD50	385 mg/kg (rabbit)

8065-48-3 demeton

Oral	LD50	1.7 mg/kg (rat)
Dermal	LD50	8.2 mg/kg (rat)

141-66-2 (E)-3-(dimethylamino)-1-methyl-3-oxoprop-1-enyl dimethyl phosphate

Oral	LD50	13 mg/kg (rat)
Dermal	LD50	181 mg/kg (rat)
		168 mg/kg (rabbit)
Inhalative	LC50/4 h	90 mg/L (rat)

78-34-2 dioxathion (ISO)

Oral	LD50	23 mg/kg (rat)
Dermal	LD50	63 mg/kg (rat)
Inhalative	LC50/4 h	1,398 mg/L (rat)

2104-64-5 O-ethyl O-4-nitrophenyl phenylphosphonothioate

Oral	LD50	7 mg/kg (rat)
Dermal	LD50	25 mg/kg (rat)
		30 mg/kg (rabbit)

563-12-2 ethion (ISO)

Oral	LD50	13 mg/kg (rat)
Dermal	LD50	62 mg/kg (rat)
Inhalative	LC50/4 h	864 mg/L (rat)

115-90-2 fensulfothion (ISO)

Oral	LD50	3.5 mg/kg (rat)
Dermal	LD50	3 mg/kg (rat)

55-38-9 fenthion (ISO)

Oral	LD50	180 mg/kg (rat)
Dermal	LD50	330 mg/kg (rat)
Inhalative	LC50/4 h	800 mg/L (rat)

121-75-5 malathion (ISO)

Oral	LD50	1,000 mg/kg (rat)
Dermal	LD50	8,790 mg/kg (rabbit)

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7786-34-7 mevinphos (ISO)

Oral LD50 3 mg/kg (rat)

Dermal LD50 4 mg/kg (rat)

6923-22-4 monocrotophos (ISO)

Dermal LD50 270 mg/kg (rabbit)

152-16-9 schradan (ISO)

Oral LD50 13.5 mg/kg (rat)

Dermal LD50 15 mg/kg (rat)

2310-17-0 phosalone

Oral LD50 85 mg/kg (rat)

Dermal LD50 1,000 mg/kg (rabbit)

732-11-6 phosmet (ISO)

Oral LD50 92.5 mg/kg (rat)

Dermal LD50 1,150 mg/kg (rat)

>3,160 mg/kg (rabbit)

Inhalative LC50/4 h 54 mg/L (rat)

13171-21-6 phosphamidon

Oral LD50 8 mg/kg (rat)

Dermal LD50 374 mg/kg (rat)

80 mg/kg (rabbit)

Inhalative LC50/4 h 135 mg/L (rat)

95-06-7 sulfallate (ISO)

Oral LD50 850 mg/kg (rat)

13071-79-9 S-tert-butylthiomethyl O,O-diethylphosphorodithioate

Oral LD50 4.5 mg/kg (rat)

· Primary irritant effect:

· **on the skin:** No irritant effect.

· **on the eye:** 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

Harmful

Irritant

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

2425-06-1 captafol (ISO)

2A

133-06-2 captan (ISO)

3

63-25-2 carbaryl (ISO)

3

121-75-5 malathion (ISO)

2A

315-18-4 mexacarbate (ISO)

3

95-06-7 sulfallate (ISO)

2B

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· NTP (National Toxicology Program)

2425-06-1 captafol (ISO)

R

95-06-7 sulfallate (ISO)

R

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

· Not Regulated, De minimus Quantities -

· UN-Number
· DOT/TDG, ADR, IMDG, IATA

UN3021

· UN proper shipping name
· DOT/TDG
· ADR

Pesticides, liquid, flammable, toxic (Acetone, S-tert-butylthiomethyl O,O-diethylphosphorodithioate)
3021 PESTICIDE, LIQUID, FLAMMABLE, TOXIC, N.O.S.
(ACETONE, S-tert-butylthiomethyl O,O-diethylphosphorodithioate), ENVIRONMENTALLY
HAZARDOUS

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CA

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· **IMDG** PESTICIDE, LIQUID, FLAMMABLE, TOXIC, N.O.S.
(ACETONE, S-tert-butylthiomethyl O,O-diethylphosphorodithioate), MARINE POLLUTANT

· **IATA** PESTICIDE, LIQUID, FLAMMABLE, TOXIC, N.O.S.
(ACETONE, S-tert-butylthiomethyl O,O-diethylphosphorodithioate)

· **Transport hazard class(es)**

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



· **Class** 3 Flammable liquids

· **Label** 3, 6.1

· **ADR**



· **Class** 3 Flammable liquids

· **Label** 3+6.1

· **IMDG**



· **Class** 3 Flammable liquids

· **Label** 3/6.1

· **IATA**



· **Class** 3 Flammable liquids

· **Label** 3 (6.1)

· **Packing group**

· **DOT/TDG, ADR, IMDG, IATA** II

· **Environmental hazards:** Product contains environmentally hazardous substances: azinphos-methyl (ISO)

· **Marine pollutant:** Symbol (fish and tree)

· **Special marking (ADR):** Symbol (fish and tree)

· **Special precautions for user** Warning: Flammable liquids

· **Danger code (Kemler):** 336

· **EMS Number:** F-E,S-D

· **Stowage Category** B

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· Stowage Code	SW2 Clear of living quarters.
· Transport in bulk according to Annex II of MARPOL/73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
· DOT/TDG	
· Quantity limitations	On passenger aircraft/rail: 1 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
· IMDG	
· Limited quantities (LQ)	1L
· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN 3021 PESTICIDE, LIQUID, FLAMMABLE, TOXIC, N.O.S. (ACETONE, S-TERT-BUTYLTHIOMETHYL O,O-DIETHYLPHOSPHORODITHIOATE), 3 (6.1), II, ENVIRONMENTALLY HAZARDOUS

15 Regulatory information

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

· Section 355 (extremely hazardous substances):	
86-50-0	azinphos-methyl (ISO)
1563-66-2	carbofuran (ISO)
56-72-4	coumaphos (ISO)
8065-48-3	demeton
141-66-2	(E)-3-(dimethylamino)-1-methyl-3-oxoprop-1-enyl dimethyl phosphate
78-34-2	dioxathion (ISO)
2104-64-5	O-ethyl O-4-nitrophenyl phenylphosphonothioate
563-12-2	ethion (ISO)
115-90-2	fensulfothion (ISO)
7786-34-7	mevinphos (ISO)
315-18-4	mexacarbate (ISO)
6923-22-4	monocrotophos (ISO)
152-16-9	schradan (ISO)
732-11-6	phosmet (ISO)
13171-21-6	phosphamidon
13071-79-9	S-tert-butylthiomethyl O,O-diethylphosphorodithioate

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· Section 313 (Specific toxic chemical listings):

133-06-2	captan (ISO)
63-25-2	carbaryl (ISO)
1563-66-2	carbofuran (ISO)
55-38-9	fenthion (ISO)
121-75-5	malathion (ISO)
7786-34-7	mevinphos (ISO)

· TSCA (Toxic Substances Control Act):

67-64-1	acetone	ACTIVE
133-06-2	captan (ISO)	ACTIVE
63-25-2	carbaryl (ISO)	ACTIVE
1563-66-2	carbofuran (ISO)	ACTIVE
152-16-9	schradan (ISO)	ACTIVE

· Canadian substance listings:
· Canadian Domestic Substances List (DSL)

67-64-1	acetone
133-06-2	captan (ISO)
121-75-5	malathion (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:
· 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.

· Date of the latest revision of the safety data sheet 04/22/2019 / -

· 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