

Safety Data Sheet

according to WHS Regulations

Date of issue: 28.01.2026

Revision: 28.01.2026

1 Identification

- **Product identifier**
- **Trade name:** Organophosphorous Pesticide Standard (1X1 mL)
- **Part number:** SPM-630-1
- **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-msds_author@agilent.com
- **Emergency telephone number:** CHEMTREC®: +(61) - 290372994

2 Hazard(s) 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 - inhalation – Category 2

H330 Fatal if inhaled.



GHS08 health hazard

Aspiration hazard – Category 1

H304 May be fatal if swallowed and enters airways.



GHS07

Skin corrosion/irritation – Category 2

H315 Causes skin irritation.

Eye damage/irritation – Category 2A

H319 Causes serious eye irritation.

Specific target organ toxicity (single exposure) – Category 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).
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· Hazard pictograms

· Signal word Danger
· Hazard-determining components of labelling:

HEXANE (44.9469 %)
acetone (53.9499 %)
parathion (ISO) (0.1379 %)
azinphos-methyl (ISO) (0.1379 %)

· Hazard statements

H225 Highly flammable liquid and vapour.
H301 Toxic if swallowed.
H330 Fatal if inhaled.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
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/sparks/open flames/hot surfaces. No smoking.
P260	Do not breathe vapours.
P284	Wear respiratory protection.
P241	Use explosion-proof electrical/ventilating/lighting equipment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P240	Ground/bond container and receiving equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P320	Specific treatment is urgent (see on this label).
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P312	Call a POISON CENTER/doctor if you feel unwell.
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P330	Rinse mouth.
P331	Do NOT induce vomiting.
P370+P378	In case of fire: Use CO ₂ , powder or water spray to extinguish.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P362+P364	Take off contaminated clothing and wash it before reuse.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.

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P403+P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.
P501 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:

67-64-1	acetone ⚠ Flammable liquids – Category 2, H225; ⚠ Eye damage/irritation – Category 2A, H319; Specific target organ toxicity (single exposure) – Category 3, H336	53.9499%
	HEXANE ⚠ Flammable liquids – Category 2, H225; ⚠ Aspiration hazard – Category 1, H304; ⚠ Skin corrosion/irritation – Category 2, H315; Specific target organ toxicity (single exposure) – Category 3, H336	44.9469%
56-38-2	parathion (ISO) ⚠ Acute toxicity - oral – Category 1, H300; Acute toxicity - dermal – Category 3, H311; Acute toxicity - inhalation – Category 1, H330; ⚠ Specific target organ toxicity (repeated exposure) – Category 1, H372	0.1379%
86-50-0	azinphos-methyl (ISO) ⚠ Acute toxicity - oral – Category 1, H300; Acute toxicity - dermal – Category 3, H311; Acute toxicity - inhalation – Category 1, H330; ⚠ Skin sensitisation – Category 1, H317	0.1379%
121-75-5	malathion (ISO) ⚠ Acute toxicity - oral – Category 4, H302; Skin sensitisation – Category 1, H317	0.1379%
298-00-0	parathion -methyl (ISO) ⚠ Flammable liquids – Category 3, H226; ⚠ Acute toxicity - oral – Category 1, H300; Acute toxicity - dermal – Category 3, H311; Acute toxicity - inhalation – Category 1, H330; ⚠ Specific target organ toxicity (repeated exposure) – Category 2, H373	0.1379%
298-04-4	disulfoton ⚠ Acute toxicity - oral – Category 1, H300; Acute toxicity - dermal – Category 1, H310	0.1379%
563-12-2	ethion (ISO) ⚠ Acute toxicity - oral – Category 3, H301; ⚠ Acute toxicity - dermal – Category 4, H312	0.1379%
8065-48-3	demeton ⚠ Flammable liquids – Category 3, H226; ⚠ Acute toxicity - oral – Category 1, H300; Acute toxicity - dermal – Category 1, H310	0.1379%

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

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4 First Aid Measures

· General information:

Immediately remove any clothing soiled by the product.
Remove breathing equipment only after contaminated clothing have been completely removed.
In case of irregular breathing or respiratory arrest provide artificial respiration.

· After inhalation:

Supply fresh air or oxygen; call for 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.

· 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

· Suitable extinguishing agents:

CO₂, 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.

· 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.

7 Handling and Storage

· Handling:**· Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
Only handle and refill product in closed systems.

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- Prevent formation of aerosols.
- **Information about fire - and explosion protection:**
 - Keep ignition sources away - Do not smoke.
 - Protect against electrostatic charges.
 - Keep respiratory protective device available.
- **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

- **Appropriate engineering controls** No further data; see section 7.

- **Ingredients with limit values that require monitoring at the workplace:**

67-64-1 acetone

WES	Short-term value: 2375 mg/m ³ , 1000 ppm
	Long-term value: 1185 mg/m ³ , 500 ppm

HEXANE

WES	Short-term value: 3500 mg/m ³ , 1000 ppm
	Long-term value: 1760 mg/m ³ , 500 ppm

86-50-0 azinphos-methyl (ISO)

WES	Long-term value: 0.2 mg/m ³
	Sk, Sen

298-00-0 parathion -methyl (ISO)

WES	Long-term value: 0.2 mg/m ³
	Sk

298-04-4 disulfoton

WES	Long-term value: 0.1 mg/m ³
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563-12-2 ethion (ISO)

WES	Long-term value: 0.4 mg/m ³
	Sk

8065-48-3 demeton

WES	Long-term value: 0.11 mg/m ³ , 0.01 ppm
	Sk

- **Additional information:** The lists valid during the making were used as basis.
- **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.
 - Do not inhale gases / fumes / aerosols.
 - Avoid contact with the eyes and skin.

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· 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.

· 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

· 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

· General Information
· Appearance:
· Form:

Fluid

· Colour:

According to product specification

· Odour:

Characteristic

· Odour threshold:

Not determined

· pH-value:

Not determined

· Change in condition
· Melting point/freezing point:

Undetermined

· Initial boiling point and boiling range:

55.8-56.6 °C

· Flash point:

<-20 °C

· Flammability

Highly flammable.

· Auto-ignition temperature:

465 °C

· Decomposition temperature:

Not determined

· Ignition temperature:

Product is not selfigniting.

· Explosive properties:

Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

· Explosion limits:
· Lower:

2.6 Vol %

· Upper:

13 Vol %

· Vapour pressure at 20 °C:

175 hPa

· Vapour pressure at 50 °C:

800 hPa

· Density at 20 °C:

0.75989 g/cm³
· Relative density

Not determined

· Vapour density

Not determined

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· 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:	54.6 %
· VOC (EC)	54.64 %
· Solids content:	0.3 %
· Other information	
· Particle characteristics	Not applicable
· Physical state	Liquid

10 Stability and Reactivity

- **Reactivity** No further relevant information available.
- **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**
Toxic if swallowed.
Fatal if inhaled.

· LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates)

Oral	LD50	130 mg/kg
Dermal	LD50	3,971 mg/kg
Inhalative	LC50/4 h	1.73 mg/L

67-64-1 acetone

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

56-38-2 parathion (ISO)

Oral	LD50	2 mg/kg (rat)
Dermal	LD50	6.8 mg/kg (rat)

86-50-0 azinphos-methyl (ISO)

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

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121-75-5 malathion (ISO)

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

298-00-0 parathion -methyl (ISO)

Oral	LD50	6.01 mg/kg (rat)
Dermal	LD50	67 mg/kg (rat)
		300 mg/kg (rabbit)

298-04-4 disulfoton

Oral	LD50	2 mg/kg (rat)
Dermal	LD50	20 mg/kg (rat)

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)

8065-48-3 demeton

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

- **Primary irritant effect:**
- **Skin corrosion/irritation** Causes skin irritation.
- **Serious eye damage/irritation** Causes serious eye irritation.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** May cause drowsiness or dizziness.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** May be fatal if swallowed and enters airways.

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.
- **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

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· **Other adverse effects** No further relevant information available.

13 Disposal considerations

· **Waste treatment methods**

· **Recommendation**

Dispose of contents/container in accordance with local/regional/national/international regulations.
Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

· **Uncleaned packaging:**

· **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

· **Not Regulated, De minimus Quantities**

-

· **UN-Number**

· **ADG, IMDG, IATA**

UN1993

· **UN proper shipping name**

· **ADG**

· **IMDG**

· **IATA**

1993 FLAMMABLE LIQUID, N.O.S. (ACETONE, HEXANE), ENVIRONMENTALLY HAZARDOUS
FLAMMABLE LIQUID, N.O.S. (ACETONE, HEXANE),
MARINE POLLUTANT
FLAMMABLE LIQUID, N.O.S. (ACETONE, HEXANE)

· **Transport hazard class(es)**

· **ADG, IMDG**

· **Class**

3 Flammable liquids.

· **Label**

3

· **IATA**

· **Class**

3 Flammable liquids.

· **Label**

3

· **Packing group**

· **ADG, IMDG, IATA**

II

· **Environmental hazards:**

Product contains environmentally hazardous substances:
azinphos-methyl (ISO)

· **Marine pollutant:**

Symbol (fish and tree)

· **Special marking (ADG):**

Symbol (fish and tree)

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· Special precautions for user	Warning: Flammable liquids.
· Hazard identification number (Kemler code):	33
· EMS Number:	F-E, <u>S-E</u>
· Stowage Category	B
· Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable
· Transport/Additional information:	
· ADG	1L
· Limited quantities (LQ)	Code: E2
· Excepted quantities (EQ)	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· Transport category	2
· Tunnel restriction code	D/E
· IMDG	1L
· Limited quantities (LQ)	Code: E2
· Excepted quantities (EQ)	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN 1993 FLAMMABLE LIQUID, N.O.S. (ACETONE, HEXANE), 3, II, ENVIRONMENTALLY HAZARDOUS

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15 Regulatory information

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

· **Australian Inventory of Industrial Chemicals**

67-64-1 acetone

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

67-64-1	acetone	S5
56-38-2	parathion (ISO)	S7
86-50-0	azinphos-methyl (ISO)	S7
121-75-5	malathion (ISO)	S3, S5, S6
298-00-0	parathion -methyl (ISO)	S6, S7
298-04-4	disulfoton	S6, S7
333-41-5	diazinon (ISO)	S5, S6
563-12-2	ethion (ISO)	S7
8065-48-3	demeton	S7

· **Australia: Priority Existing Chemicals**

None of the ingredients is listed.

· **Directive 2012/18/EU**

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

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- **Seveso category**
E1 Hazardous to the Aquatic Environment
P5c FLAMMABLE LIQUIDS
- **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.

- **Relevant phrases**

H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H300 Fatal if swallowed.
H301 Toxic if swallowed.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H310 Fatal in contact with skin.
H311 Toxic in contact with skin.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H330 Fatal if inhaled.
H336 May cause drowsiness or dizziness.
H372 Causes damage to organs through prolonged or repeated exposure.
H373 May cause damage to organs through prolonged or repeated exposure.

- **Contact:**

- **Abbreviations and acronyms:**

ADR: Accord relatif au transport international 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)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Flammable liquids – Category 2: Flammable liquids – Category 2
Flammable liquids – Category 3: Flammable liquids – Category 3
Acute toxicity - oral – Category 1: Acute toxicity – Category 1
Acute toxicity - oral – Category 4: Acute toxicity – Category 4
Acute toxicity - dermal – Category 3: Acute toxicity – Category 3
Acute toxicity - inhalation – Category 2: Acute toxicity – Category 2
Skin corrosion/irritation – Category 2: Skin corrosion/irritation – Category 2
Eye damage/irritation – Category 2A: Serious eye damage/eye irritation – Category 2A
Skin sensitisation – Category 1: Skin sensitisation – Category 1
Specific target organ toxicity (single exposure) – Category 3: Specific target organ toxicity (single exposure) – Category 3
Specific target organ toxicity (repeated exposure) – Category 1: Specific target organ toxicity (repeated exposure) – Category 1
Specific target organ toxicity (repeated exposure) – Category 2: Specific target organ toxicity (repeated exposure) – Category 2
Aspiration hazard – Category 1: Aspiration hazard – Category 1

- *** Data compared to the previous version altered.**