

**Safety Data Sheet**  
acc. to OSHA HCS

Printing date 03/29/2019

Version Number 2

Reviewed on 03/21/2019

**1 Identification**

- **Product identifier**
- **Trade name:** Oregon Pesticides Standard 2 (1X1 mL)
- **Part number:** SOR-105-1
- **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.



GHS07

Acute Tox. 4 H302 Harmful if swallowed.

Eye Irrit. 2A H319 Causes serious eye irritation.

- **Label elements**

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

- **Hazard pictograms**



GHS02



GHS07

- **Signal word** Danger

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

acetonitrile

- **Hazard statements**

Highly flammable liquid and vapor.

Harmful if swallowed.

Causes serious eye irritation.

- **Precautionary statements**

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.

(Contd. on page 2)

## Safety Data Sheet acc. to OSHA HCS

Printing date 03/29/2019

Version Number 2

Reviewed on 03/21/2019

**Trade name: Oregon Pesticides Standard 2 (1X1 mL)**

(Contd. of page 1)

- Use only non-sparking tools.
- Take precautionary measures against static discharge.
- Wash thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Wear protective gloves/protective clothing/eye protection/face protection.
- If swallowed: Call a poison center/doctor if you feel unwell.
- Rinse mouth.
- If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- If eye irritation persists: 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.
- Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Classification system:**

- **NFPA ratings (scale 0 - 4)**



- **HMIS-ratings (scale 0 - 4)**



- **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:**

75-05-8	acetonitrile	99.746%
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### 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; consult doctor in case of complaints.
- **After skin contact:** Immediately rinse with water.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

(Contd. on page 3)

## Safety Data Sheet

### acc. to OSHA HCS

Printing date 03/29/2019

Version Number 2

Reviewed on 03/21/2019

**Trade name: Oregon Pesticides Standard 2 (1X1 mL)**

(Contd. of page 2)

- **After swallowing:** Immediately call a 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.
- **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:**

75-05-8	acetonitrile	13 ppm
60-51-5	dimethoate (ISO)	2.7 mg/m <sup>3</sup>
13194-48-4	ethoprophos (ISO)	0.14 mg/m <sup>3</sup>
121-75-5	malathion (ISO)	15 mg/m <sup>3</sup>
2032-65-7	mercaptodimethur (ISO)	1.4 mg/m <sup>3</sup>
16752-77-5	methomyl	0.91 mg/m <sup>3</sup>
298-00-0	parathion -methyl (ISO)	0.11 mg/m <sup>3</sup>

**PAC-2:**

75-05-8	acetonitrile	50 ppm
60-51-5	dimethoate (ISO)	30 mg/m <sup>3</sup>
13194-48-4	ethoprophos (ISO)	1.6 mg/m <sup>3</sup>
121-75-5	malathion (ISO)	120 mg/m <sup>3</sup>
2032-65-7	mercaptodimethur (ISO)	15 mg/m <sup>3</sup>
16752-77-5	methomyl	10 mg/m <sup>3</sup>
298-00-0	parathion -methyl (ISO)	1.2 mg/m <sup>3</sup>

(Contd. on page 4)

## Safety Data Sheet

### acc. to OSHA HCS

Printing date 03/29/2019

Version Number 2

Reviewed on 03/21/2019

**Trade name: Oregon Pesticides Standard 2 (1X1 mL)**

(Contd. of page 3)

· PAC-3:		
75-05-8	acetonitrile	150 ppm
60-51-5	dimethoate (ISO)	170 mg/m <sup>3</sup>
13194-48-4	ethoprophos (ISO)	9.3 mg/m <sup>3</sup>
121-75-5	malathion (ISO)	390 mg/m <sup>3</sup>
2032-65-7	mercaptopdimethur (ISO)	90 mg/m <sup>3</sup>
16752-77-5	methomyl	23 mg/m <sup>3</sup>
298-00-0	parathion -methyl (ISO)	3.5 mg/m <sup>3</sup>

## 7 Handling and storage

- **Handling:**
- **Precautions for safe handling** No special precautions are necessary if used correctly.
- **Information about protection against explosions and fires:**  
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 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:**

### 75-05-8 acetonitrile

PEL	Long-term value: 70 mg/m <sup>3</sup> , 40 ppm
REL	Long-term value: 34 mg/m <sup>3</sup> , 20 ppm
TLV	Long-term value: 34 mg/m <sup>3</sup> , 20 ppm
	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.  
Avoid contact with the eyes.  
Avoid contact with the eyes and skin.

(Contd. on page 5)

## Safety Data Sheet acc. to OSHA HCS

Printing date 03/29/2019

Version Number 2

Reviewed on 03/21/2019

**Trade name: Oregon Pesticides Standard 2 (1X1 mL)**

(Contd. of page 4)

**· 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:** Colorless

**· Odor:** Aromatic

**· Odor threshold:** Not determined.

**· pH-value:** Not determined.

**· Change in condition**

**Melting point/Melting range:** -46 °C (-50.8 °F)

**Boiling point/Boiling range:** 81 °C (177.8 °F)

**· Flash point:** 2 °C (35.6 °F)

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

**· Ignition temperature:** 525 °C (977 °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:** 4.4 Vol %

(Contd. on page 6)

## Safety Data Sheet

### acc. to OSHA HCS

Printing date 03/29/2019

Version Number 2

Reviewed on 03/21/2019

**Trade name: Oregon Pesticides Standard 2 (1X1 mL)**

(Contd. of page 5)

<b>Upper:</b>	16 Vol %
· <b>Vapor pressure at 20 °C (68 °F):</b>	0 hPa (0 mm Hg)
· <b>Density at 20 °C (68 °F):</b>	0.786 g/cm <sup>3</sup> (6.55917 lbs/gal)
· <b>Relative density</b>	Not determined.
· <b>Vapor density</b>	Not determined.
· <b>Evaporation rate</b>	Not determined.
· <b>Solubility in / Miscibility with Water:</b>	Not miscible or difficult to mix.
· <b>Partition coefficient (n-octanol/water):</b>	Not determined.
· <b>Viscosity:</b>	
<b>Dynamic at 20 °C (68 °F):</b>	0.39 mPas
<b>Kinematic:</b>	Not determined.
· <b>Solvent content:</b>	
<b>Organic solvents:</b>	0.0 %
<b>VOC content:</b>	0.03 %
	0.3 g/l / 0.00 lb/gal
· <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:**

**LD/LC50 values that are relevant for classification:**
**ATE (Acute Toxicity Estimate)**

Oral	LD50	1,323 mg/kg (rat)
Dermal	LD50	>2,005 mg/kg (rabbit)
Inhalative	LC50/4 h	3,596 mg/L (mouse)

**75-05-8 acetonitrile**

Oral	LD50	1,320 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit)
Inhalative	LC50/4 h	3,587 mg/L (mouse)

(Contd. on page 7)

## Safety Data Sheet

### acc. to OSHA HCS

Printing date 03/29/2019

Version Number 2

Reviewed on 03/21/2019

**Trade name: Oregon Pesticides Standard 2 (1X1 mL)**

(Contd. of page 6)

<b>80844-07-1 etofenprox</b>		
Oral	LD50	>42,800 mg/kg (rat)
Dermal	LD50	>2,140 mg/kg (rat)
<b>153233-91-1 etoxazol</b>		
Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)
Inhalative	LC50/4 h	>1.09 mg/L (rat)
<b>120068-37-3 fipronil</b>		
Oral	LD50	97 mg/kg (rat)
Dermal	LD50	354 mg/kg (rabbit)
Inhalative	LC50/4 h	680 mg/L (rat)
<b>121-75-5 malathion (ISO)</b>		
Oral	LD50	1,000 mg/kg (rat)
Dermal	LD50	8,790 mg/kg (rabbit)
<b>16752-77-5 methomyl</b>		
Oral	LD50	17 mg/kg (rat)
Dermal	LD50	5,880 mg/kg (rabbit)
<b>298-00-0 parathion -methyl (ISO)</b>		
Oral	LD50	6.01 mg/kg (rat)
Dermal	LD50	67 mg/kg (rat) 300 mg/kg (rabbit)

- **Primary irritant effect:**

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

- **on the eye:** Irritating effect.

- **Sensitization:** No sensitizing effects known.

- **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)**

121-75-5	malathion (ISO)	2A
298-00-0	parathion -methyl (ISO)	3

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

## 12 Ecological information

- **Toxicity**

- **Aquatic toxicity:** No further relevant information available.

- **Persistence and degradability** No further relevant information available.

(Contd. on page 8)

## Safety Data Sheet

acc. to OSHA HCS

Printing date 03/29/2019

Version Number 2

Reviewed on 03/21/2019

**Trade name: Oregon Pesticides Standard 2 (1X1 mL)**




(Contd. of page 7)

- **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>	UN1648
<b>· UN proper shipping name</b>	
<b>· DOT</b>	Acetonitrile
<b>· IMDG</b>	ACETONITRILE, MARINE POLLUTANT
<b>· IATA</b>	ACETONITRILE
<b>· Transport hazard class(es)</b>	
<b>· DOT, IATA</b>	
	
<b>· Class</b>	3 Flammable liquids
<b>· Label</b>	3
<b>· IMDG</b>	
 	
<b>· Class</b>	3 Flammable liquids
<b>· Label</b>	3

(Contd. on page 9)



## Safety Data Sheet

### acc. to OSHA HCS

Printing date 03/29/2019

Version Number 2

Reviewed on 03/21/2019

**Trade name: Oregon Pesticides Standard 2 (1X1 mL)**

(Contd. of page 8)

· <b>Packing group</b> · <b>DOT, IMDG, IATA</b>	II
· <b>Environmental hazards:</b> · <b>Marine pollutant:</b>	Product contains environmentally hazardous substances: etofenprox, malathion (ISO) Symbol (fish and tree)
· <b>Special precautions for user</b> · <b>Danger code (Kemler):</b> · <b>EMS Number:</b> · <b>Stowage Category</b> · <b>Stowage Code</b>	Warning: Flammable liquids 33 F-E,S-D B SW2 Clear of living quarters.
· <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> · <b>Excepted quantities (EQ)</b>	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· <b>UN "Model Regulation":</b>	UN 1648 ACETONITRILE, 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):**

60-51-5	dimethoate (ISO)
13194-48-4	ethoprophos (ISO)
2032-65-7	mercaptodimethur (ISO)
16752-77-5	methomyl
298-00-0	parathion -methyl (ISO)

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

75-05-8	acetonitrile
60-51-5	dimethoate (ISO)
13194-48-4	ethoprophos (ISO)
72490-01-8	ethyl[2-(4-phenoxyphenoxy)ethyl]carbamate
35554-44-0	imazalil (ISO)
121-75-5	malathion (ISO)
2032-65-7	mercaptodimethur (ISO)

(Contd. on page 10)

## Safety Data Sheet

### acc. to OSHA HCS

Printing date 03/29/2019

Version Number 2

Reviewed on 03/21/2019

**Trade name: Oregon Pesticides Standard 2 (1X1 mL)**

(Contd. of page 9)

298-00-0	parathion -methyl (ISO)	
88671-89-0	myclobutanil	
<b>· TSCA (Toxic Substances Control Act):</b>		
75-05-8	acetonitrile	
60-51-5	dimethoate (ISO)	
<b>· Proposition 65</b>		
<b>· Chemicals known to cause cancer:</b>		
13194-48-4	ethoprophos (ISO)	
72490-01-8	ethyl[2-(4-phenoxyphenoxy)ethyl]carbamate	
35554-44-0	imazalil (ISO)	
143390-89-0	kresoxim-methyl (ISO)	
121-75-5	malathion (ISO)	
<b>· Chemicals known to cause reproductive toxicity for females:</b>		
None of the ingredients is listed.		
<b>· Chemicals known to cause reproductive toxicity for males:</b>		
88671-89-0	myclobutanil	
<b>· Chemicals known to cause developmental toxicity:</b>		
88671-89-0	myclobutanil	
<b>· Carcinogenic categories</b>		
<b>· EPA (Environmental Protection Agency)</b>		
75-05-8	acetonitrile	CBD, D
<b>· TLV (Threshold Limit Value established by ACGIH)</b>		
75-05-8	acetonitrile	A4
121-75-5	malathion (ISO)	A4
16752-77-5	methomyl	A4
298-00-0	parathion -methyl (ISO)	A4
<b>· NIOSH-Ca (National Institute for Occupational Safety and Health)</b>		
None of the ingredients is listed.		
<b>· Chemical safety assessment:</b> 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 preparation / last revision** 03/29/2019 / 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)

(Contd. on page 11)

**Safety Data Sheet**  
acc. to OSHA HCS

Printing date 03/29/2019

Version Number 2

Reviewed on 03/21/2019

**Trade name: Oregon Pesticides Standard 2 (1X1 mL)**

(Contd. of page 10)

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 & Health  
TLV: Threshold Limit Value  
PEL: Permissible Exposure Limit  
REL: Recommended Exposure Limit  
Flam. Liq. 2: Flammable liquids – Category 2  
Acute Tox. 4: Acute toxicity – Category 4  
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A  
· **\* Data compared to the previous version altered.**

US