

according to Regulation (EC) No. 1907/2006 as amended by (EC) No. 2015/830 and US OSHA HCS 2015

Section 1. Identification of the Substance/Mixture and of the Company/Undertaking

- 1.1 Product Code:** 26194
Product Name: Pesticide Mixture 3
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**
Relevant identified uses: For research use only, not for human or veterinary use.
- 1.3 Details of the Supplier of the Safety Data Sheet:**
Company Name: Cayman Chemical Company
 1180 E. Ellsworth Rd.
 Ann Arbor, MI 48108
Web site address: www.caymanchem.com
Information: Cayman Chemical Company +1 (734)971-3335
- 1.4 Emergency telephone number:**
Emergency Contact: CHEMTREC Within USA and Canada: +1 (800)424-9300
 CHEMTREC Outside USA and Canada: +1 (703)527-3887

Section 2. Hazards Identification

- 2.1 Classification of the Substance or Mixture:**
 Flammable Liquids, Category 2
 Acute Toxicity: Inhalation, Category 4
 Acute Toxicity: Oral, Category 4
 Acute Toxicity: Skin, Category 4
 Serious Eye Damage/Eye Irritation, Category 2
 Aquatic Toxicity (Acute), Category 2

2.2 Label Elements:



GHS Signal Word: **Danger**

GHS Hazard Phrases:

H225: Highly flammable liquid and vapor.
 H302: Harmful if swallowed.
 H312: Harmful in contact with skin.
 H319: Causes serious eye irritation.
 H332: Harmful if inhaled.
 H401: Toxic to aquatic life.

GHS Precaution Phrases:

P210: Keep away from {heat/sparks/open flames/hot surfaces}. - No smoking.
 P261: Avoid breathing {dust/fume/gas/mist/vapors/spray}.
 P264: Wash {hands} thoroughly after handling.
 P273: Avoid release to the environment.
 P280: Wear {protective gloves/protective clothing/eye protection/face protection}.

GHS Response Phrases:

P301+312: IF SWALLOWED: P312: Call a POISON CENTER or doctor/physician if you feel unwell.
 P302+352: IF ON SKIN: Wash with plenty of soap and water.
 P303+361+353: IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P321: Specific treatment {see ... on this label}.

P330: Rinse mouth.

P337+313: If eye irritation persists, get medical advice/attention.

P362+364: Take off contaminated clothing and wash it before reuse.

GHS Storage and Disposal Phrases:

Please refer to Section 7 for Storage and Section 13 for Disposal information.

2.3 Adverse Human Health Can cause fatal cyanide poisoning.

Effects and Symptoms: Causes serious eye irritation.
Harmful if swallowed, inhaled, or absorbed through the skin.
Material may be irritating to the mucous membranes and upper respiratory tract.
May be fatal if swallowed, inhaled, or absorbed through the skin.
May cause skin or respiratory system irritation.
Several hours may elapse from exposure to onset of symptoms.
Toxic to aquatic life.
To the best of our knowledge, the toxicological properties have not been thoroughly investigated.

Section 3. Composition/Information on Ingredients

CAS # / RTECS #	Hazardous Components (Chemical Name)/ REACH Registration No.	Concentration	EC No./ EC Index No.	GHS Classification
2312-35-8 WT2900000	Propargite	0.01 %	219-006-1 607-151-00-7	Skin Corr. 2: H315 Eye Damage 1: H318 Acute Tox.(I) 3: H331 Carcinogen 2: H351 Aquatic (A) 1: H400 Aquatic (C) 1: H410
63-25-2 FC5950000	Carbaryl	0.01 %	200-555-0 006-011-00-7	Acute Tox.(O) 4: H302 Acute Tox.(I) 4: H332 Carcinogen 2: H351 Aquatic (A) 1: H400
88671-89-0 XZ5257000	Myclobutanil 01-0000015794-62	0.01 %	NA 613-134-00-5	Acute Tox.(O) 4: H302 Eye Damage 2A: H319 Toxic Repro. 2: H361d Aquatic (C) 2: H411
110488-70-5 QE0478300	Morpholine, 4-[3-(4-chlorophenyl)-3-(3,4-dimethoxyphenyl)-1-oxo -2-propenyl]-	0.01 %	404-200-2 613-102-00-0	Aquatic (C) 2: H411
153233-91-1 RP6795100	Etoxazol	0.01 %	604-891-2 603-199-00-8	Aquatic (A) 1: H400 Aquatic (C) 1: H410
148477-71-8 NA	Spirodiclofen	0.01 %	604-636-5 NA	Skin Sens. 1: H317
153719-23-4 RO0470000	4H-1,3,5-Oxadiazin-4-imine, 3-[(2-chloro-5-thiazolyl)methyl]tetrahydro-5-methyl-N -nitro- 01-0000017497-60	0.01 %	428-650-4 613-267-00-9	Acute Tox.(O) 4: H302 Aquatic (A) 1: H400 Aquatic (C) 1: H410
158062-67-0 US4588850	Fonicamid	0.01 %	605-127-0 616-216-00-9	Acute Tox.(O) 4: H302
80844-07-1 DA0670000	Ethofenprox 01-0000015736-64	0.01 %	407-980-2 604-091-00-3	Aquatic (A) 1: H400 Aquatic (C) 1: H410
298-02-2	Phorate	0.01 %	206-052-2	Acute Tox.(O) 2: H300

TD9450000			015-033-00-6	Acute Tox.(D) 1: H310 Aquatic (A) 1: H400 Aquatic (C) 1: H410
10265-92-6 TB4970000	Methamidophos	0.01 %	233-606-0 015-095-00-4	Acute Tox.(O) 2: H300 Acute Tox.(D) 3: H311 Acute Tox.(I) 2: H330 Aquatic (A) 1: H400
41198-08-7 TE6975000	Profenofos	0.01 %	255-255-2 015-135-00-0	Acute Tox.(O) 4: H302 Acute Tox.(D) 4: H312 Acute Tox.(I) 4: H332 Aquatic (A) 1: H400 Aquatic (C) 1: H410
6923-22-4 TC4375000	Monocrotophos	0.01 %	230-042-7 015-072-00-9	Acute Tox.(O) 2: H300 Acute Tox.(D) 3: H311 Acute Tox.(I) 2: H330 Mutagen 2: H341 Aquatic (A) 1: H400 Aquatic (C) 1: H410
2597-03-7 AI7875000	Phenthoate	0.01 %	219-997-0 015-097-00-5	Acute Tox.(O) 4: H302 Acute Tox.(D) 4: H312 Aquatic (A) 1: H400 Aquatic (C) 1: H410
29232-93-7 TF1410000	Pirimiphos methyl	0.01 %	249-528-5 015-134-00-5	Acute Tox.(O) 4: H302 Aquatic (A) 1: H400 Aquatic (C) 1: H410
75-05-8 AL7700000	Acetonitrile 01-2119471307-38	99.85 %	200-835-2 608-001-00-3	Flam. Liq. 2: H225 Acute Tox.(O) 4: H302 Acute Tox.(D) 4: H312 Eye Damage 2: H319 Acute Tox.(I) 4: H332

Section 4. First Aid Measures

4.1 Description of First Aid

Measures:

In Case of Inhalation: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.

In Case of Skin Contact: Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

In Case of Eye Contact: Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examined and tested by medical personnel.

In Case of Ingestion: Wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by medical personnel.

4.2 Important Symptoms and Effects, Both Acute and Delayed: Exposure may cause: asphyxia, cyanosis, depression, diarrhea, dizziness, drowsiness, excitement, headache, impaired judgement, lack of coordination, nausea, rash, vomiting, stupor, death. Treat as cyanide poisoning. Always have on hand a cyanide first-aid kit, together with proper instructions. The onset of symptoms is generally delayed pending conversion to cyanide.

Note for the Doctor: Acetonitrile is metabolized to cyanide. Patients with significant exposures must be observed for signs of cyanide poisoning and treated accordingly.

Section 5. Fire Fighting Measures

- 5.1 Suitable Extinguishing** Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.
Media: Use water spray to cool fire-exposed containers.
Unsuitable Extinguishing A solid water stream may be inefficient.
Media:
- 5.2 Flammable Properties and Hazards:** Can release vapors that form explosive mixtures at temperatures at or above the flashpoint.
 Container explosion may occur under fire conditions.
 Emits toxic fumes under fire conditions.
 Sensitive to static discharge.
 Vapors can travel to a source of ignition and flash back.
 No data available.
- Flash Pt:** 2.00 C Method Used: Closed Cup
Explosive Limits: LEL: 3.0% at 25.0 C UEL: 16.0% at 25.0 C
Autoignition Pt: 524.00 C
- 5.3 Fire Fighting Instructions:** As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.
 Note: Flammable as diluted in acetonitrile.

Section 6. Accidental Release Measures

- 6.1 Protective Precautions,** Avoid breathing vapors and provide adequate ventilation.
Protective Equipment and Emergency Procedures: As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator, and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).
- 6.2 Environmental Precautions:** Take steps to avoid release into the environment, if safe to do so.
- 6.3 Methods and Material For Containment and Cleaning Up:** Contain spill and collect, as appropriate.
 Transfer to a chemical waste container for disposal in accordance with local regulations.

Section 7. Handling and Storage

- 7.1 Precautions To Be Taken in Handling:** Avoid breathing dust/fume/gas/mist/vapours/spray.
 Avoid prolonged or repeated exposure.
 Keep away from sources of ignition.
 Take precautionary measures against static discharge.
- 7.2 Precautions To Be Taken in Storing:** Keep away from heat, sparks, and flame.
 Keep container tightly closed.
 Store in accordance with information listed on the product insert.

Section 8. Exposure Controls/Personal Protection

8.1 Exposure Parameters:

CAS #	Chemical Name	Jurisdiction	Recommended Exposure Limits	Notations
63-25-2	Carbaryl	ACGIH TLV	TLV: 5 mg/m3 (IFV)	
		France VL	TWA: 5 mg/m3	
		OSHA PELs	PEL: 5 mg/m3	
88671-89-0	Myclobutanil	ACGIH TLV	CEIL: 5 mg/m3 (salts)	
		France VL	TWA: 5 mg/m3	
		OSHA PELs	TWA: 5 mg/m3	
		Britain EH40	TWA: 5.0 mg/m3	Skin Absorption
298-02-2	Phorate	ACGIH TLV	TLV: 0.05 mg/m3	

298-02-2 Phorate (continued)	France VL	STEL: 0.2 mg/m3 TWA: 0.05 mg/m3	
	Britain EH40	TWA: 0.05 mg/m3 () STEL: 0.2 mg/m3 ()	Skin Absorption
6923-22-4 Monocrotophos	ACGIH TLV	TLV: 0.05 mg/m3 (Inhalation)	
	France VL	TWA: 0.25 mg/m3	
75-05-8 Acetonitrile	ACGIH TLV	TLV: 20 ppm	
	Europe	TWA: 70 mg/m3 (40 ppm)	Skin Absorption
	France VL	TWA: 70 mg/m3 (40 ppm) STEL: ()	
	OSHA PELs	PEL: 40 ppm	
	Britain EH40	TWA: 68 mg/m3 (40 ppm) STEL: 102 mg/m3 (60 ppm)	

8.2 Exposure Controls:

8.2.1 Engineering Controls Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne (Ventilation etc.): levels below recommended exposure limits.

8.2.2 Personal protection equipment:

Eye Protection: Safety glasses

Protective Gloves: Compatible chemical-resistant gloves

Other Protective Clothing: Lab coat

Respiratory Equipment NIOSH approved respirator, as conditions warrant.

(Specify Type):

Work/Hygienic/Maintenance Practices: Do not take internally.

Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower.

Wash thoroughly after handling.

No data available.

Section 9. Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

Physical States: [] Gas [X] Liquid [] Solid

Appearance and Odor: A solution in acetonitrile

pH: No data.

Melting Point: No data.

Boiling Point: No data.

Flash Pt: 2.00 C Method Used: Closed Cup

Evaporation Rate: No data.

Flammability (solid, gas): No data available.

Explosive Limits: LEL: 3.0% at 25.0 C UEL: 16.0% at 25.0 C

Vapor Pressure (vs. Air or mm Hg): 73 MM_HG at 20.0 C

Vapor Density (vs. Air = 1): No data.

Specific Gravity (Water = 1): No data.

Solubility in Water: No data.

Octanol/Water Partition Coefficient: No data.

Autoignition Pt: 524.00 C

Decomposition Temperature: No data.

Viscosity: No data.

9.2 Other Information

Percent Volatile: No data.

Section 10. Stability and Reactivity

10.1 Reactivity: No data available.

10.2 Stability: Unstable [] Stable [X]

10.3 Stability Note(s): Stable if stored in accordance with information listed on the product insert.

Polymerization: Will occur [] Will not occur [X]

10.4 Conditions To Avoid: heat, flames, and sparks

10.5 Incompatibility - Materials acids

To Avoid: alkali metals

bases

oxidizing agents

reducing agents

10.6 Hazardous carbon dioxide

Decomposition or carbon monoxide

Byproducts: hydrogen cyanide

nitrogen oxides

Section 11. Toxicological Information

11.1 Information on The toxicological effects of this product have not been thoroughly studied.

Toxicological Effects: Acetonitrile - Toxicity Data: Oral LD50 (rat): 2,460 mg/kg; Oral LD50 (mouse): 269 mg/kg; Oral LD50 (rabbit): 50 mg/kg; Oral TDLO (man): 64 mg/kg; Skin LD50 (rabbit): 980 mg/kg; Inhalation TCLO (human): 160 ppm (4h); Inhalation LC50 (rat): 7,551 ppm (8h);

Acetonitrile - Irritation Data: Skin (rabbit) 500 mg mild; Eye (rabbit): 100 µl (24 hr) moderate;

Chronic Toxicological Acetonitrile - Investigated as a mutagen, primary irritant, reproductive effector, and tumorigen.

Effects: Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here.

See actual entry in RTECS for complete information.

Acetonitrile RTECS Number: AL7700000

Carcinogenicity: NTP? No IARC Monographs? No OSHA Regulated? No

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
2312-35-8	Propargite	n.a.	n.a.	n.a.	n.a.
63-25-2	Carbaryl	n.a.	3	A4	n.a.
88671-89-0	Myclobutanil	n.a.	n.a.	n.a.	n.a.
110488-70-5	Morpholine, 4-[3-(4-chlorophenyl)-3-(3,4-dimethoxyphenyl)-1-oxo-2-prop enyl]-	n.a.	n.a.	n.a.	n.a.
153233-91-1	Etoxazol	n.a.	n.a.	n.a.	n.a.
148477-71-8	Spirodiclofen	n.a.	n.a.	n.a.	n.a.
153719-23-4	4H-1,3,5-Oxadiazin-4-imine, 3-[(2-chloro-5-thiazolyl)methyl]tetrahydro-5-methyl-N-nitro-	n.a.	n.a.	n.a.	n.a.
158062-67-0	Flonicamid	n.a.	n.a.	n.a.	n.a.
80844-07-1	Ethofenprox	n.a.	n.a.	n.a.	n.a.
298-02-2	Phorate	n.a.	n.a.	n.a.	n.a.
10265-92-6	Methamidophos	n.a.	n.a.	n.a.	n.a.

41198-08-7	Profenofos	n.a.	n.a.	n.a.	n.a.
6923-22-4	Monocrotophos	n.a.	n.a.	A4	n.a.
2597-03-7	Phenthoate	n.a.	n.a.	n.a.	n.a.
29232-93-7	Pirimiphos methyl	n.a.	n.a.	n.a.	n.a.
75-05-8	Acetonitrile	n.a.	n.a.	A4	n.a.

Section 12. Ecological Information

- 12.1 Toxicity:** Avoid release into the environment.
Runoff from fire control or dilution water may cause pollution.
- 12.2 Persistence and Degradability:** No data available.
- 12.3 Bioaccumulative Potential:** No data available.
- 12.4 Mobility in Soil:** No data available.
- 12.5 Results of PBT and vPvB assessment:** No data available.
- 12.6 Other adverse effects:** No data available.

Section 13. Disposal Considerations

- 13.1 Waste Disposal Method:** Dispose in accordance with local, state, and federal regulations.

Section 14. Transport Information

14.1 LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Acetonitrile Solution

DOT Hazard Class: 3 FLAMMABLE LIQUID

UN/NA Number: 1648 **Packing Group:** II



14.1 LAND TRANSPORT (European ADR/RID):

ADR/RID Shipping Name: Acetonitrile Solution

UN Number: 1648 **Packing Group:** II

Hazard Class: 3 - FLAMMABLE LIQUID

14.3 AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: Acetonitrile Solution

UN Number: 1648 **Packing Group:** II

Hazard Class: 3 - FLAMMABLE LIQUID **IATA Classification:** 3

Additional Transport Information: Transport in accordance with local, state, and federal regulations.

When sold in quantities of less than or equal to 1 mL, or 1 g, with an Excepted Quantity Code of E1, E2, E4, or E5, this item meets the De Minimis Quantities exemption, per IATA 2.6.10. Therefore packaging does not have to be labeled as Dangerous Goods/Excepted Quantity.



SAFETY DATA SHEET

Pesticide Mixture 3

Section 15. Regulatory Information

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
2312-35-8	Propargite	No	Yes 10 LB	Yes
63-25-2	Carbaryl	No	Yes 100 LB	Yes
88671-89-0	Myclobutanil	No	No	Yes-Cat. N106
110488-70-5	Morpholine, 4-[3-(4-chlorophenyl)-3-(3,4-dimethoxyphenyl)-1-oxo-2-propenyl]-	No	No	No
153233-91-1	Etoxazol	No	No	No
148477-71-8	Spirodiclofen	No	No	No
153719-23-4	4H-1,3,5-Oxadiazin-4-imine, 3-[(2-chloro-5-thiazolyl)methyl]tetrahydro-5-methyl-N-nitro-	No	No	No
158062-67-0	Flonicamid	No	No	No
80844-07-1	Ethofenprox	No	No	No
298-02-2	Phorate	Yes 10 LB	Yes 10 LB	No
10265-92-6	Methamidophos	Yes 100 LB	No	No
41198-08-7	Profenofos	No	No	Yes
6923-22-4	Monocrotophos	Yes 10 LB *	No	No
2597-03-7	Phenthoate	No	No	No
29232-93-7	Pirimiphos methyl	No	No	Yes
75-05-8	Acetonitrile	No	Yes 5000 LB	Yes

CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
2312-35-8	Propargite	CAA HAP,ODC: No; CWA NPDES: Yes; TSCA: No; CA PROP.65: Yes: Canc+RDTox.
63-25-2	Carbaryl	CAA HAP,ODC: HAP: NvHAP; CWA NPDES: Yes; TSCA: Yes - Inventory; CA PROP.65: Yes: Canc+RDTox(M)
88671-89-0	Myclobutanil	CAA HAP,ODC: Yes - Cat.; CWA NPDES: No; TSCA: No; CA PROP.65: Yes: RDTox(M)
110488-70-5	Morpholine, 4-[3-(4-chlorophenyl)-3-(3,4-dimethoxyphenyl)-1-oxo-2-propenyl]-	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No
153233-91-1	Etoxazol	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No
148477-71-8	Spirodiclofen	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: Yes: Canc.
153719-23-4	4H-1,3,5-Oxadiazin-4-imine, 3-[(2-chloro-5-thiazolyl)methyl]tetrahydro-5-methyl-N-nitro-	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No
158062-67-0	Flonicamid	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No
80844-07-1	Ethofenprox	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No
298-02-2	Phorate	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No



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Pesticide Mixture 3

10265-92-6	Methamidophos	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No
41198-08-7	Profenofos	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No
6923-22-4	Monocrotophos	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No
2597-03-7	Phenthoate	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No
29232-93-7	Pirimiphos methyl	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No
75-05-8	Acetonitrile	CAA HAP,ODC: HAP: VHAP; CWA NPDES: No; TSCA: Yes - Inventory, 8A PAIR; CA PROP.65: No

Regulatory Information

This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC)

Statement:

No.1272/2008.

Section 16. Other Information

Revision Date:

11/26/2018

Additional Information About

No data available.

This Product:**Company Policy or Disclaimer:**

DISCLAIMER: This information is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.