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Safety Data Sheet acc. to OSHA HCS

Printing date 08/15/2023 Revision date 08/15/2023

1 Identification

- · Product identifier
- · Trade name: Nevada Pesticide Mixture 3 (CRM)
- · Synonym
- · Article number: 39364
- · Application of the substance / the mixture

This product is for research use - Not for human or veterinary diagnostic or therapeutic use.

- · Details of the supplier of the safety data sheet
- Manufacturer/Supplier: Cayman Chemical Co. 1180 E. Ellsworth Rd. Ann Arbor, MI 48108

USA

- · Information department: Product safety department
- **Emergency telephone number:**

During normal opening times: +1 (734) 971-3335

US/CANADA: 800-424-9300 Outside US/CANADA: 703-741-5970

2 Hazard(s) identification

· Classification of the substance or mixture



GHS02 Flame

Flammable Liquids 2 H225 Highly flammable liquid and vapor.



GHS08 Health hazard

Toxic to Reproduction 1B H360 May damage fertility or the unborn child.



Aquatic Acute 1 H400 Very toxic to aquatic life.

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.

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Acute Toxicity - Oral 4 H302 Harmful if swallowed.

Acute Toxicity - Dermal 4 H312 Harmful in contact with skin.

Acute Toxicity - Inhalation 4 H332 Harmful if inhaled.

Eye Irritation 2A H319 Causes serious eye irritation.

Sensitization - Skin 1 H317 May cause an allergic skin reaction.

· Label elements

· GHS label elements

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

Hazard pictograms









GHS02 GHS07 GHS08 GHS09

Signal word Danger

· Hazard-determining components of labeling:

Acetonitrile
Dimethomorph
Piperonyl Butoxide
Thiamethoxam
Quintozene

· Hazard statements

H225 Highly flammable liquid and vapor.

H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled.

H319 Causes serious eye irritation.
 H317 May cause an allergic skin reaction.
 H360 May damage fertility or the unborn child.
 H410 Very toxic to aquatic life with long lasting effects.

· Precautionary statements

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood. P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ventilating/lighting/equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.
P261 Avoid breathing dust/fume/gas/mist/vapors/spray

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.

P272 Contaminated work clothing must not be allowed out of the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P312 If swallowed: Call a poison center/doctor if you feel unwell.

P330 Rinse mouth.

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with

water/shower.

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P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P321 Specific treatment (see on this label).

P362+P364 Take off contaminated clothing and wash it before reuse.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

P363 Wash contaminated clothing before reuse.

P370+P378 In case of fire: Use CO2, powder or water spray to extinguish.

P391 Collect spillage.

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.

· Classification system:

NFPA ratings (scale 0 - 4)



Health = 2 Fire = 3 Reactivity = 0

· HMIS-ratings (scale 0 - 4)



Health = 2 Fire = 3

Reactivity = 0

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:		
CAS: 75-05-8 RTECS: AL7700000	Acetonitrile	99.2%
CAS: 51-03-6 RTECS: XS8050000	Piperonyl Butoxide	0.1%
CAS: 82-68-8 RTECS: DA6650000	Quintozene	0.1%
CAS: 52315-07-8 RTECS: GZ1250000	Cypermethrin	0.1%
CAS: 110488-70-5 RTECS: QE0478300	Dimethomorph	0.1%
CAS: 131341-86-1 RTECS: UX9347525	Fludioxonil	0.1%
CAS: 153719-23-4 RTECS: RO0470000	Thiamethoxam	0.1%

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			Contd. from page 3)
· Other	ingredients		
CAS:	126833-17-8	Fenhexamid	0.1%
	158062-67-0 S: US4588850	Flonicamid	0.1%

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 eve contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- · 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:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- · 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 product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Dilute with plenty of water.

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.

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See Section 13 for disposal information.

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 Protective 	Action	Criteria	for	Chemical	S

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· PAC-1:			
75-05-8	Acetonitrile	13 ppm	
51-03-6	Piperonyl Butoxide	6.5 mg/m ³	
82-68-8	Quintozene	1.5 mg/m³	
PAC-2:			
75-05-8	Acetonitrile	50 ppm	
51-03-6	6 Piperonyl Butoxide 72 m		
82-68-8	8 Quintozene 2		
· PAC-3:			
75-05-8	Acetonitrile	150 ppm	
51-03-6	Piperonyl Butoxide	1,200 mg/m ³	
82-68-8	Quintozene	62 mg/m³	

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:** Store in accordance with information listed on the product insert.
- · 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:

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

75-0	5-8 Acetonitrile
PEL	Long-term value: 70 mg/m³, 40 ppm
REL	Long-term value: 34 mg/m³, 20 ppm

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TLV Long-term value: 20 ppm

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Skin, A4

82-68-8 Quintozene

TLV Long-term value: 0.5 mg/m³

- · 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:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:



Tightly sealed goggles

9 Physical and chemical properties

- · Information on basic physical and chemical properties
- General Information
- · Appearance:

Form:

Color: According to product specification

· Odor: Ether-like

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· Odor threshold: · Formulation	Not determined. A solution in acetonitrile (1 mg/ml of each compound)
· pH-value:	Not determined.
 Change in condition Melting point/Melting range: Boiling point/Boiling range: 	-46 °C (-50.8 °F) 81 °C (177.8 °F)
· Flash point:	2 °C (35.6 °F)
· Flammability (solid, gaseous):	Highly flammable.
· Auto igniting:	525 °C (977 °F)
· 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: Upper:	4.4 Vol % 16 Vol %
· Vapor pressure at 20 °C (68 °F): · Vapor pressure at 50 °C (122 °F):	98.64 hPa (74 mm Hg) 330 hPa (247.5 mm Hg)
 Density at 20 °C (68 °F): Relative density Vapor density Evaporation rate 	0.79 g/cm³ (6.59255 lbs/gal) Not determined. Not determined. Not determined.
· Solubility in / Miscibility with Water at 25 °C (77 °F):	1000 g/l
· Partition coefficient (n-octanol/water)	: Not determined.
· Viscosity: Dynamic at 20 °C (68 °F): Kinematic:	0.35 mPas Not determined.
· Solvent content: VOC content:	0.00 % 0.0 g/l / 0.00 lb/gal
Solids content:	0.8 %
· 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

· LD/LC50 values that are relevant for classification:				
ATE (Acute Toxicity Estimate)				
Oral	LD50	618 mg/kg (mouse)		
Dermal	LD50	1,505 mg/kg (rabbit)		
Inhalative	LC50/4 h	10.8 mg/l		
75-05-8 A	cetonitrile			
Oral	LD50	617 mg/kg (mouse) (OECD Test Guideline 401)		
Dermal	LD50	1,500 mg/kg (rabbit) (Expert Judgement) Remarks: Classified according to Regulation (EU) 1272/2008, Anne VI (Table 3.1/3.2)		
Inhalative	LC50/4 h	6.022 mg/l (mouse) (OECD Test Guideline 403)		
51-03-6 P	iperonyl Butoxide			
Oral	LD50	2,600 mg/kg (mouse)		
		7,181 mg/kg (rat)		
	LD50	>6 g/kg (rat)		
	Subcutaneous TDLO	1,000 mg/kg (mouse)		
	Intraperitoneal LDLO	1 g/kg (mouse)		
52315-07-	8 Cypermethrin			
Oral	LD50	500 mg/kg (ATE)		
	LD50	57,500 μg/kg (rat)		
Inhalative	LC50/4 h	3.3 mg/l (ATE)		
	Intraperitoneal LD50	404 mg/kg (rat)		
110488-70	0-5 Dimethomorph			
Oral	LD50	3,500 mg/kg (rat)		
131341-86	6-1 Fludioxonil			
Oral	TDLO	11,760 ml/kg/2W intermittent (mouse)		
	TDLO	28 g/kg/28D intermittent (rat)		
153719-23	3-4 Thiamethoxam			
Oral	LDLO	1,563 mg/kg (rat)		
	TDLO	1,287 ml/kg/90D intermittent (mouse)		
	LD50	780 mg/kg (ATE)		

- Primary irritant effect:
- on the skin: No irritant effect.
- · on the eye: Irritating effect.
- · Sensitization: Sensitization possible through skin contact.

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· Additional toxicological information:

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

Harmful Irritant

· Carcinogenic categories

	- 3		
· IARC (I	nternational Agency for Research on Cancer)		
51-03-6	Piperonyl Butoxide	3	
82-68-8	Quintozene	3	
· NTP (Na	ational Toxicology Program)		
None of	f the ingredients is listed.		
· OSHA-0	· OSHA-Ca (Occupational Safety & Health Administration)		
None of	f the ingredients is listed.		

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.
- **Ecotoxical effects:**
- · Remark: Very toxic for fish
- 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.

Also poisonous for fish and plankton in water bodies.

Very toxic for aquatic organisms

- · 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.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

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Transport information	
UN-Number DOT, IMDG, IATA	UN1993
UN proper shipping name DOT IMDG IATA	Flammable liquids, n.o.s. (Acetonitrile) FLAMMABLE LIQUID, N.O.S. (ACETONITRILE) Flammable liquid, n.o.s. (ACETONITRILE)
Transport hazard class(es)	
PAMINABLE COLD	
· Class · Label	3 Flammable liquids 3
· IMDG, IATA	
· Class · Label	3 Flammable liquids 3
Packing group DOT, IMDG, IATA	II
Environmental hazards:	Product contains environmentally hazardou substances: Piperonyl Butoxide
· Special precautions for user · Hazard identification number (Kemler code): · EMS Number: · Stowage Category	Warning: Flammable liquids : 33 F-E, <u>S-E</u> B
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
DOT Quantity limitations	On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· IATA · Remarks:	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 Minimi Quantities exemption, per IATA 2.6.10.

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	Therefore packaging does not have to be labeled as Dangerous Goods/Excepted Quantity.
· UN "Model Regulation":	UN 1993 FLAMMABLE LIQUID, N.O.S. (ACETONITRILE), 3, II, ENVIRONMENTALLY HAZARDOUS

15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.
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· Section 355 (extremely hazardous substances):
None of the ingredients is listed.
· Section 313 (Specific toxic chemical listings):
75-05-8 Acetonitrile

TSCA (Toxic Substances Control Act):

75-05-8	Acetonitrile	ACTIVE
51-03-6	Piperonyl Butoxide	ACTIVE
82-68-8	Quintozene	ACTIVE

· Hazardous Air Pollutants

51-03-6 Piperonyl Butoxide

82-68-8 Quintozene

75-05-8	Acetonitrile
82-68-8	Quintozene

- · Proposition 65
- · Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

Carcinogenic categories

	goo oogooo		
· EPA (En	vironmental Protection Agency)		
75-05-8	Acetonitrile	CBD, D	
· TLV (Threshold Limit Value)			
75-05-8	Acetonitrile	A4	
82-68-8	Quintozene	A4	
NIOSH Ca (National Institute for Occupational Safety and Health)			

NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

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Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

All chemicals may pose unknown hazards and should be used with caution. This SDS applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. Cayman Chemical Company assumes no responsibility for incidental or consequential damages, including lost profits, arising from the use of these data. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Cayman Chemical Company assumes no responsibility for the completeness or accuracy of the information contained herein.

- · **Department issuing SDS:** Environment protection department.
- · Contact: -
- Date of preparation / last revision 08/15/2023
- · 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)

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

Flammable Liquids 2: Flammable liquids – Category 2 Acute Toxicity - Oral 4: Acute toxicity - Category 4

Eye Irritation 2A: Serious eye damage/eye irritation - Category 2A

Sensitization - Skin 1: Skin sensitisation - Category 1

Toxic to Reproduction 1B: Reproductive toxicity – Category 1B

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1