



Maxunitech North America, Inc.

SAFETY DATA SHEET

Issue Date 29-May-2024

Version #1

1. IDENTIFICATION**Product identifier****Product Name** Maxunitech® Pinoxaden EC**Other means of identification****Synonyms** Pinoxaden: 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl 2,2-dimethylpropanoate (CAS name)**Registration Number(s)** 95009-12**Recommended use of the chemical and restrictions on use****Recommended Use** Herbicide**Uses advised against** Use according to label**Supplier's details**Maxunitech North America, Inc.
11601 Shadow Creek Pkwy, Suite 111-573
Pearland, TX
77584, USA
1-855-462-9621**Emergency telephone number****Company Phone Number** 1-855-462-9621**Emergency Telephone** For spills or transportation accidents, Chemtrec, 1-800-424-9300.**2. HAZARDS IDENTIFICATION****Classification of the substance or mixture****Classification according to OSHA Hazard Communication Standard (29 CFR 1910.1200)**

Acute oral - Category 5

Acute dermal - Category 5

Specific target organ toxicity (repeated exposure) - Category 2

Hazardous to aquatic environment, acute - Category 1

Hazardous to aquatic environment, chronic - Category 1

GHS label elements, including precautionary statements**Warning****Hazard Statements**

H303: May be harmful if swallowed

H313: May be harmful in contact with skin



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H371: May cause damage to organs (respiratory tract)

H400: Very toxic to aquatic life

H410: Very toxic to aquatic life with long lasting effects

Precautionary Statements - Prevention

P260 Do not breathe dust/fume/gas/mist/vapors/spray.

P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P273 Avoid release to the environment.

Precautionary Statements - Response

P301+P317 IF SWALLOWED: Get medical help.

P302 + P317 IF ON SKIN: Get medical help.

P308+P316 IF exposed or concerned: Get emergency medical help immediately.

P391 Collect spillage.

Precautionary statement(s) Storage

P405 Store locked up.

Precautionary Statements - Disposal

P501 Dispose of contents/container to in accordance with local regulations.

Hazards not otherwise classified (HNOC)

No hazards not otherwise classified were identified.

Other Information

Harmful to aquatic life.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Not applicable

Mixture

Chemical Name	CAS No.	%
Solvent naphtha (petroleum), heavy aromatic	64742-94-5	20-60
Pinoxaden	243973-20-8	9.89
Cloquintocet-mexyl	99607-70-2	1-5

4. FIRST AID MEASURES

Description of necessary first aid measures

Eye contact	Flush eyes with clean water, holding eyelids apart for a minimum of 15-20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eye.
Skin contact	Immediately remove contaminated clothing and wash skin, hair and fingernails thoroughly with soap and water. Flush skin with plenty of water for 15-20 minutes.
Inhalation	Move victim to fresh air. If not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.
Ingestion	If swallowed, immediately contact Syngenta, a poison control centre, doctor or nearest hospital for treatment advice. Do not induce vomiting unless directed by a physician or a poison control center. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person.



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Most important symptoms and effects, both acute and delayed

Contains petroleum distillate - vomiting may cause aspiration pneumonia.

Indication of immediate medical attention and special treatment needed, if necessary

There is no specific antidote if this product is ingested. Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use foam, carbon dioxide, dry powder, halon extinguishant or water fog or mist, (avoid use of water jet). Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion. Prevent use of contaminated buildings, area, and equipment until decontaminated. Water runoff can cause environmental damage. Contain run-off water with, for example, temporary earth barriers.

Special hazards arising from the chemical

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Hazardous Combustion Products

During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

Explosion data

Sensitivity to Mechanical Impact

No information available.

Sensitivity to Static Discharge

No information available.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Make sure all personnel involved in the spill cleanup follow good industrial hygiene practices. A small spill can be handled routinely. Use adequate ventilation and wear equipment and clothing as described in Section 8 and/or the product label.

Other

For further clean-up instructions, call Maxunitech North America, Inc. Emergency Hotline number listed in Section 1 "Product and Company Identification" above.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities.

Methods for Containment

Contain spillage, and then collect with non-combustible absorbent material, (eg. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

Methods for cleaning up

Clean contaminated surface thoroughly. Clean with detergents. Avoid solvents. Retain and dispose of contaminated wash water.

7. HANDLING AND STORAGE

Handling

KEEP OUT OF REACH OF CHILDREN. Prevent eating, drinking, tobacco use, and cosmetic application in areas where there is a potential for exposure to the material. Avoid breathing vapours or spray mist. Wear full protective clothing and equipment (see Section 8). After work, rinse gloves and remove protective equipment, and wash hands thoroughly with soap and water after handling, and before eating, tobacco use, drinking, applying cosmetics or using the toilet. Wash contaminated clothing before re-use and separate from household laundry. Keep containers closed when not in use. Protect product, wash or rinse water, and contaminated materials from uncontrolled release into the environment, or from access by animals, birds or



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unauthorized people.

Storage

Store in original container only in a well-ventilated, cool, dry, secure area. Protect from heat, sparks and flame. Do not expose sealed containers to temperatures above 35 °C. Keep separate from other products to prevent cross contamination. Rotate stock. Clean up spilled material immediately.

Incompatible products

None known

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Solvent naphtha, petroleum, heavy aromatic 64742-94-5	TWA - 200 mg/m ³ (non-aerosol as total hydrocarbon)	TWA - 400 mg/m ³ (hydrocarbons, unspecified)	-

Appropriate engineering controls

Engineering measures

The following recommendations for exposure controls/personal protection are intended for the manufacture, formulation, packaging and use of this product.

Consult the product label for commercial applications and/or on- farm applications.

Containment and/or segregation is the most reliable technical protection measure if exposure cannot be eliminated.

The extent of these protection measures depends on the actual risks in use.

Maintain air concentrations below occupational exposure standards.

Where necessary, seek additional occupational hygiene advice.

Individual protection measures, such as personal protective equipment

Eye/Face Protection

Where eye contact is likely, wear chemical goggles or a full-face shield. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Skin and Body Protection

Where contact is likely, wear chemical-resistant gloves (such as nitrile or butyl), coveralls, socks and chemical-resistant footwear. For overhead exposure, wear chemical-resistant headgear.

Hand protection

Use protective gloves made of chemical materials such as nitrile or neoprene. Wash the outside of gloves with soap and water before reuse. Check regularly for leaks.

Respiratory protection

A respirator is not normally required when handling this substance. A combination gas/vapour/particulate respirator should be used until effective engineering controls are installed to comply with occupational exposure limits, or until exposure limits are established. Use a NIOSH certified respirator with a combination acid gas/organic vapour cartridge or canister and any N, P or R prefilter. Use a self-contained breathing apparatus in cases of emergency spills, when exposure levels are unknown, or under any circumstances where air-purifying respirators may not provide adequate protection.

Hygiene measures

Clean water should be available for washing in case of eye or skin contamination. Wash skin prior to eating, drinking, chewing gum or using tobacco. Shower or bathe at the end of working. Remove and wash contaminated clothing before re-use. Launder work clothing separately from regular household laundry.

General information

Avoid breathing dust, vapours or aerosols. Avoid contact with eye, skin and clothing. Wash thoroughly after handling and before eating, applying cosmetics or using tobacco.



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9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Yellow to orange liquid
Physical State	Liquid
Color	Yellow to orange
Odor	Aromatic
Odor threshold	not information available
pH	3.0-7.0, 1% aqueous solution @ 20°C
Density	1.0 - 1.1 g/mL (20 °C)
Melting point/freezing point	< -10 °C
Boiling Point/Range	No information available
Flash point	> 93 °C
Flame extension	Not Applicable
Evaporation Rate	No information available
Flammability (solid, gas)	Not Applicable
Flammability Limit in Air	
Upper flammability limit:	No information available
Lower flammability limit:	No information available
Vapor pressure	3.5 x 10 ⁻⁹ mmHg @ 25 °C (Pinoxaden Technical)
Vapor density	No information available
Water solubility	200 mg/L @ 25 °C (Pinoxaden Technical)
Solubility in other solvents	No information available
Partition coefficient	No information available
Autoignition temperature	No information available
Decomposition temperature	No information available
Viscosity	6.76 @ 20°C, 3.87 @ 40°C
Explosive properties	Not explosive
Oxidizing properties	No information available
Bulk density	Not Applicable

10. STABILITY AND REACTIVITY

Reactivity	None reasonably foreseeable.
Chemical stability	Stable under normal use and storage conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Hazardous polymerization	Hazardous polymerization does not occur.
Conditions to avoid	No decomposition if used as directed
Incompatible materials	No substances are known which lead to the formation of hazardous substances or thermal reactions.
Hazardous decomposition products	Can decompose at high temperatures and form toxic gases.

11. TOXICOLOGICAL INFORMATION

Information on the likely routes of exposure

The acute toxicity information of the formulated product:



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LD₅₀ Oral	5000 mg/kg (rat)
LD₅₀ Dermal	>2000 mg/kg (rat)
LC₅₀ Inhalation	>5.288 mg/L 4 hr (rat)
Serious eye damage/eye irritation	Not an eye irritant (rabbit)
Skin corrosion/irritation	Not a skin irritant (rabbit)
Sensitization	Not a skin sensitizer (Guinea Pig)

Data presented below are based on the active ingredient.

Information on toxicological effects

Symptoms may cause respiratory irritation, breathing difficulties, cough, acute irritation of the respiratory system leading to tightness of the chest and an asthmatic condition. May cause mild eye and skin irritation. Harmful if inhaled. Allergic skin reactions are possible. Chronic overexposure can affect respiratory tract. Inhalation of vapours at high concentrations can cause central nervous system effects (dizziness, headache), irritation to eyes or respiratory tract.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic toxicity	Pinoxaden Technical: Predominantly kidney and liver effects at high doses.
Carcinogenicity	Pinoxaden Technical: No compound-related tumours in rats or mice.
Neurological effects	Pinoxaden Technical: No neurotoxic effects (acute or subchronic)
Reproductive toxicity	Pinoxaden Technical: Did not show reproductive toxicity effects in animal experiments.
Developmental toxicity	Pinoxaden Technical: Has been toxic to the fetus in laboratory animals at doses toxic to the mother. Did not cause birth defects in laboratory animals.
STOT - repeated exposure	Pinoxaden Technical: Based on human evidence: may cause respiratory irritation, breathing difficulties, cough, acute irritation of the respiratory system leading to tightness of the chest and an asthmatic condition.
Target organ effects	Pinoxaden Technical: Based on human evidence: may cause respiratory irritation, breathing difficulties, cough, acute irritation of the respiratory system leading to tightness of the chest and an asthmatic condition.
Toxicity of Other Components	<p>The acute toxicity test results reported in Section 11, above, for the finished product take into account any acute hazards related to the "other components" in the formulation.</p> <p>Cloquintocet-mexyl: May cause mild eye and skin irritation. Harmful if inhaled. Allergic skin reactions are possible.</p> <p>Petroleum Solvent: Inhalation of vapours at high concentrations can cause central nervous system effects (dizziness, headache), irritation to eyes or respiratory tract.</p>
Aspiration hazard	No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Active Ingredient(s)	Duration	Species	Value	Units
Pinoxaden 243973-20-8	96 h LC ₅₀	rainbow trout	10.3	mg/L
	48 h EC ₅₀	Water flea	52	mg/L
Cloquintocet-mexyl 99607-70-2	96 h LC ₅₀	rainbow trout	>0.97	mg/L
	48 h EC ₅₀	Water flea	>0.82	mg/L



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Persistence and Degradability	Pinoxaden:	Low persistence in soil. Low persistence in water.
	Cloquintocet-mexyl:	Low persistence in soil. Low persistence in water.
Bioaccumulation	Pinoxaden:	BCF < 500; does not bioaccumulate.
	Cloquintocet-mexyl:	BCF < 500; does not bioaccumulate.
Mobility	Pinoxaden:	Low mobility in soil.
	Cloquintocet-mexyl:	Low mobility in soil.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods	For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Disposal should be made in accordance with federal, provincial and local regulations.
Contaminated packaging	Do not reuse container for any purpose. If applicable, return container in accordance with return program. If a recyclable container, dispose of at a container collection site. Contact local distributor, dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site, triple or pressure rinse the empty container adding rinsings to spray tank, and make container unsuitable for further use. If there is no container collection site in your area, dispose of the container in accordance with provincial requirements.

14. TRANSPORT INFORMATION

DOT

UN/ID no	UN3082
Proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (Solvent Naptha)
Hazard Class	9
Packaging group	III
Marine pollutant	Yes
	Not regulated when transported on land by motor vehicle or rail car in non- bulk containers

IATA

UN/ID no	UN3082
Proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (Solvent Naptha)
Transport hazard class(es)	9
Packaging group	III
Marine pollutant	Yes

IMDG

UN/ID no	UN3082
Proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (Solvent Naptha)
Transport hazard class(es)	9
Packaging group	III
Marine Pollutant	Yes



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TDG

UN/ID no	UN3082
Proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (Solvent Naptha)
Hazard Class	9
Packaging group	III
Marine pollutant	Yes
Section 1.45.1 of the TDG Regulations provides an exemption from documentation and safety marks only for this product and only when transported by road or railway vehicle.	

15. REGULATORY INFORMATION

FIFRA

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

KEEP OUT OF REACH OF CHILDREN

CAUTION

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Harmful if swallowed or absorbed through the skin.

Causes moderate eye irritation.

Avoid contact with eyes, skin or clothing.

Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

Remove and wash contaminated clothing before reuse.

ENVIRONMENTAL HAZARDS

Pinoxaden is toxic to oysters. For terrestrial uses: DO NOT apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high-water mark. DO NOT contaminate water when disposing of equipment wash water or rinsate.

NON-TARGET ORGANISM ADVISORY: This product is toxic to plants and may adversely impact the forage and habitat of non-target organisms, including pollinators, in areas adjacent to the treated site. Protect the forage and habitat of non-target organisms by following label directions intended to minimize spray drift.

US Federal Regulations

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazard Categories

Specific target organ toxicity (single or repeated exposure)

SARA 313:

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive



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Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

US State Regulations

Each state may promulgate standards more stringent than the federal government. This section cannot encompass an inclusive list of all state regulations. Therefore, the user should consult state or local authorities.

California Prop. 65

This product does not contain any Proposition 65 chemicals

16. OTHER INFORMATION

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Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet