Maxunitech North America, Inc.

SAFETY DATA SHEET

Issue Date 26-May-2024 **Version** #1

1. IDENTIFICATION

Product identifier

Product Name Maxunitech® Pinoxaden 100EC

Other means of identification

Synonyms Pinoxaden: 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7*H*-pyrazolo[1,2-d][1,4,5]oxadiazepin- 9-yl 2,2-dimethylpropanoate (CAS name)

Registration Number(s) PCP No. 35184

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 Regulation (GHS Rev.10)

Acute oral - Category 5
Acute dermal - Category 5
Specific target organ toxicity (repeated exposure) - Category 2
Carcinogenicity - 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
H351: Suspected of causing cancer (liver, kidney, respiratory tract and blood)
H371: May cause damage to organs (liver, kidney, respiratory tract and blood)
H400: Very toxic to aquatic life
H410: Very toxic to aquatic life with long lasting effects

Precautionary Statements - Prevention

P203 Obtain, read and follow all safety instructions before use.
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.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary Statements - Response

P301+P317 IF SWALLOWED: Get medical help.
P308+P316 IF exposed or concerned: Get emergency medical help immediately.
P318 IF exposed or concerned, get medical advice.
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	9.86
Cloquintocet-mexyl	99607-70-2	1-5
Naphthalene	91-20-3	0.0001-1

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.
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 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
Naphthalene 91-20-3	TWA: 10 ppm	TWA: 10 ppm TWA: 50 mg/m^3 (vacated) TWA: 10 ppm (vacated) TWA: 50 mg/m^3 (vacated) STEL: 15 ppm (vacated) STEL: 75 mg/m^3	IDLH: 250 ppm TWA: 10 ppm TWA: 50 mg/m^3 STEL: 15 ppm STEL: 75 mg/m^3

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.

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 ºC
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	3.5×10^{-9} mmHg @ 25 ºC (Pinoxaden Technical)
Vapor density	No information available
Water solubility	200 mg/L @ 25 ºC (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：

LD_{50} Oral	5000 mg/kg (rat)
LD_{50} Dermal	>2000 mg/kg (rat)
LC_{50} 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 the liver, kidney, respiratory tract and blood. 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	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. Cloquintocet-mexyl: May cause mild eye and skin irritation. Harmful if inhaled. Allergic skin reactions are possible. Naphthalene: Chronic overexposure to naphthalene can affect the liver, kidney, respiratory tract and blood. Carcinogen Status: NTP: Anticipated Carcinogen; IARC: Group 2B Possible Human Carcinogen

Petroleum Solvent: Inhalation of vapours at high concentrations can cause central nervous system effects (dizziness, headache), irritation to eyes or respiratory tract.

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

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

ADD: 11601 Shadow Creek Pkwy, Suite 111-573, Pearland, TX 77584, USA

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

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

US Federal Regulations

Does not apply

US State Regulations

Does not apply

International Inventories

Chemical name	TSCA (United States)	DSL (Canada)	EINECS/ELINCS (Europe)	ENCS (Japan)	China (IECSC)	KECL (Korea)	PICCS (Philippines)	AICS (Australia)
Naphtha (petroleum), heavy aromatic 664742-94-5	X	X	X		X	X	X	X
Pinoxaden 243973-20-8	X							
Cloquintocet-mexyl 99607-70-2	X							
Naphthalene 91-20-3	X	X	X	X	X	X	X	X

Canadian Regulations

Any Canadian specific regulatory information

Read the approved label, authorized under the Pest Control Products Act, prior to using or handling the pest control product.

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This chemical is a pest control product registered by Health Canada Pest Management Regulatory Agency and is subject to certain labelling requirements under the Pest Control Products Act. These requirements differ from the classification criteria and hazard information required for GHS-consistent safety data sheets. Following is the hazard information required on the pest control product label:

None

WHMIS classification for product: exempt.

16. OTHER INFORMATION

MSDS Creation Date: 26-May-2024
Issue Date: 26-May-2024
Revision: #1

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

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