

MATERIAL SAFETY DATA SHEET

1.Product and Company Identification

Product Name : Pinoxaden 95% TC
Chemical Name : 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
Type : Herbicide
Molecular formula : $C_{23}H_{32}N_2O_4$

2.Composition/Information on ingredients

Chemical Name	CAS#	Percent or content
Pinoxaden	243973-20-8	95.0%
Other ingredients	-	05.0%

3.Health Hazards Identification

Causes eye, skin and respiratory tract irritation.

Exposure to high vapour levels may cause headache, dizziness, numbness, nausea, incoordination, or other central nervous system effects.

4.First Aid Measures

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.

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.

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

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.

Antidote: No specific antidote if ingested. Treat symptomatically.

5. Fire Fighting Measures

Suitable extinguish Media: Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray. Use water spray to cool fire-exposed containers.

Unsuitable Extinguishing Media: A solid water stream may be inefficient.

6. Accidental Release Measures

In Case of Spill or Leak

Clean up spills immediately, observing precautions outlined in Section 8. Sweep up material and place in a compatible disposal container. Scrub area with hard water detergent (e.g. commercial products such as Tide, Joy, Spic and Span). Pick up wash liquid with additional absorbent and place into compatible disposal container. Once all material is cleaned up and placed in a disposal container, seal container and arrange for disposition.

7. Handling and Storage

Handling : Use appropriate (impervious) clothing, gloves and closed foot ware to prevent the repeated contact with skin. Use flash proof and dust resistant goggles to prevent the contact with eyes.

Storage : Keep the product in original container tightly closed and correctly labeled. Store in suitable, cool, dry, well ventilated place under lock and key; away from the reach of the children, animals, food and animal feeding stuffs. Store away from the incompatible substances and source of ignition

8. Exposure Controls/Personal Protection

Engineering Controls : Good general ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operations.

Ingestion : DO NOT eat, drink or apply cosmetics, where there is a potential for exposure to the product.

Eye Protection : Safety goggles, chemical splash goggles or face shield for eyes protection should be used. Safety showers and eye wash should be easily available.

Skin Protection :

Chemical resistant gloves, coveralls socks, apron and chemical resistant foot covering should always be used while handling the product.

Respiratory protection :

Always use respiratory protection equipment with a universal filter type including particle filter.

General Protection :

Avoid contact with eyes and skin. While handling the product wear cotton overalls buttoned to the neck and wrist. Elbow-length PVC gloves and face shield. After use and before eating, drinking and smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves and contaminated clothing.

9.Physical and Chemical Properties

State: Solid

Appearance: White powder

Odor: Odorless

Water solubility: 200 mg/l

10.Stability and Reactivity

Stable under normal use and storage conditions.

Incompatible materials: Strong acids, strong bases.

Decomposition byproducts: Carbon dioxide, carbon monoxide, hydrogen chloride gas, nitrogen oxides.

11. Toxicological Information

Acute Oral LD50 : >5000 mg/kg body weight (Rat)

Acute Dermal LD50 : >2000 mg/kg body weight (Rabbit)

Acute Inhalation LC50 : >4.63 mg/l (4 h) (rat)

Skin Irritation : Irritant (Rabbit)

Eye Irritation : Irritant (Rabbit)

Skin Sensitization : No sensitization reaction observed in guinea pigs

12. Ecological Information

Bird (Bobwhite Quail) LD50 >2250 mg/kg

LC50 Rainbow trout 10.3 mg/l

LC50 Daphnia (48h) 52 mg/l

The LC50 in earthworm (*Eisenia foetida*) is >1000 mg/kg.

Acute contact LD50 for honeybee (*Apis mellifera*) is >100 µg/bee.

Acute oral LD50 in honeybee (*Apis mellifera*) is >110 µg/bee.

13. Disposal Considerations

Waste Disposal Method: Do not reuse product containers. Dispose of product containers, waste containers, and residues according to local, state, and federal health and environmental regulations.

14. Transport Information

Product Name	:	Environmentally Hazardous Substance, Solid, N.O.S
UN No.	:	3077
UN Hazard Class	:	9

UN Packing Group : III
Marine Pollutant status : Yes

15.Regulatory Information

Hazardous symbol Xn Harmful

Special Risks (R-Phrases)

R22 Harmful if swallowed

Safety Advice (S- Phrases)

S 1/2 Keep locked up / Keep out of reach children

S28 After contact with skin, wash immediately with plenty of water and soap

S36/37 Wear suitable protective clothing and gloves

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical help

16.Other Information

This Material Safety Data Sheet summarizes our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.