Safety Data Sheet

1. Identification of the Substance/Preparation and of the Company/Undertaking

Product Name: PAVILION MTZ

EPA Pesticide Registration number 89167-88-89391

Recommended use Herbicide.

Uses advised against Non labeled activities

Company Name and Address

Innvictis Crop Care LLC 1880 Fall River Drive, Suite 100 Loveland CO 80538

Emergency telephone number

Emergency telephone number Chemtrec: (800) 424-9300 (24hrs)

2. Hazards Identification

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin sensitization Category 1

Label elements

EMERGENCY OVERVIEW

WARNING

Hazard Statements



Precautionary Statements - Prevention

Do not get in eyes, on skin, or on clothing

Contaminated work clothing should not be allowed out of the workplace

Wear protective gloves

IF ON SKIN: Wash with plenty of soap and water

If skin irritation or rash occurs: Get medical advice/attention

Wash contaminated clothing before reuse

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards Not Otherwise Classified (HNOC)

OTHER INFORMATION

- · May be harmful in contact with skin
- · Very toxic to aquatic life with long lasting effects
- · Very toxic to aquatic life

3. Composition/information on Ingredients

Chemical name	CAS-No	Weight %	Trade secret
Pendimethalin	40487-42-1	29.75	
[N-(1-ethylpropyl)-3,4-dimethyl-2,6-dinitrobenzenea			
mine]			
Metribuzin	21087-64-9	11.25	

If CAS number is "proprietary", the specific chemical identity and percentage of composition has been withheld as a trade secret.

4. First aid measures

FIRST AID MEASURES

Eye contact Hold eye open and rinse slowly and gently with water for 15 - 20 minutes. Remove contact

lenses, if present, after 5 minutes, then continue rinsing eye. Call a poison control center or

doctor for treatment advice.

Skin contact Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center

or doctor for treatment advice. Remove and wash contaminated clothing before re-use.

Inhalation Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give

artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or

doctor for further treatment advice.

Ingestion Call a physician or poison control center immediately. Never give anything by mouth to an

unconscious person. Do not induce vomiting without medical advice.

Most Important Symptoms and Effects, Both Acute and Delayed

Most Important Symptoms and

Effects

No information available.

Indication of Any Immediate Medical Attention and Special Treatment Needed

Notes to physician Treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media No information available.

Specific hazards arising from the chemical

Do not mix or allow contact with oxidizing agents as a hazardous chemical reaction may occur.

Hazardous combustion products Carbon monoxide. Carbon dioxide (CO2). Oxides of nitrogen. Hydrocarbons.

Explosion data

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal Precautions Avoid contact with skin and eyes. Provide adequate ventilation. Remove all sources of

ignition. Use personal protective equipment.

Environmental Precautions

Environmental precautions Keep material out of lakes, streams, ponds and sewer drains. Dike to confine spill and

absorb with an absorbant such as clay, sand or soil.

Methods and material for containment and cleaning up

Methods for Clean-Up Follow all label instructions regarding spill clean-up and residual disposal methods.

7. Handling and Storage

Precautions for safe handling

Handling Avoid contact with skin and eyes. Keep away from open flames, hot surfaces and sources

of ignition. Do not eat, drink or smoke when using this product. Provide adequate

ventilation. Wash thoroughly after handling. Keep out of reach of children.

Conditions for safe storage, including any incompatibilities

Storage If stored below 0 C or above 40 C for extended periods of time changes to the product

properties may occur. Keep containers tightly closed in a cool, well-ventilated place.

incompatible materials Corrosive effect on brass, mild steel. Do not mix or allow contact with oxidizing agents as a

hazardous chemical reaction may occur.

8. Exposure Controls/Personal Protection

Exposure guidelines

Chemical name	ACGIH TLV	OSHA PEL	
Metribuzin	TWA: 5 mg/m ³	(vacated) TWA: 5 mg/m ³	
Engineering controls	Investigate engineering techniques to reduce exposures. Local mechanical exhaust ventilation is preferred. Consult ACGIH ventilation manual or NFPA Standard 91 for design of exhaust systems.		
Personal protective equipment Eye/Face Protection	Where there is potential fo	r eye contact have eye flushing equipment available. Use eye	

eye/Face Protection where there is potential for eye contact have eye flushing equipment available. Use eye

protection to avoid eye contact.

Skin protection Long sleeved clothing. Chemical resistant gloves.

Respiratory protection Where airborne exposure is likely, use NIOSH approved respiratory protection equipment

appropriate to the material and/or its components. Full facepiece equipment is recommended and, if used, replaces need for face shield and/or chemical goggles. If exposures cannot be kept at a minimum with engineering controls, consult respirator

manufacturer to determine appropriate type equipment for given application. Observe respirator use limitations specified by NIOSH or the manufacturer. For emergency and other conditions where there may be a potential for significant exposure, use an approved full face positive-pressure, self-contained breathing apparatus. Respiratory protection programs must comply with 29 CFR 1910.134.

General hygiene considerations

Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Avoid contact with skin, eyes and clothing. Wear suitable gloves and eye/face protection. Wash hands and face before breaks and immediately after handling the product.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Physical stateLiquidAppearanceOpaqueOdorfaint

color yellow-orange

<u>Property</u> <u>VALUES</u> <u>Remarks/ • Method</u>

pH 7.3

Melting point/freezing pointNo information availableBoiling Point/RangeNo information availableFlash PointNo information availableEvaporation RateNo information availableFlammability (solid, gas)No information available

Flammability limit in air

Upper Flammability Limit
Lower Flammability Limit
vapor pressure
Vapor Density

No information available
No information available
No information available

Specific gravity 1.122

Water solubility

Solubility in Other Solvents
Partition coefficient: n-octanol/waterNo information available
Autoignition temperature
Decomposition temperature
Viscosity, kinematic

No information available
No information available
No information available
No information available

Dynamic viscosity 153.2@ 20C

Explosive properties No information available Oxidizing properties No information available

OTHER INFORMATION

Softening point
Mo information available
No information available
No information available
No information available
No information available
Bulk density
No information available
No information available

10. Stability and Reactivity

Reactivity

no data available

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Conditions to avoid

Extremes of temperature and direct sunlight.

incompatible materials

Corrosive effect on brass, mild steel. Do not mix or allow contact with oxidizing agents as a hazardous chemical reaction may occur.

Hazardous decomposition products

None under normal use conditions.

11. Toxicological Information

Information on Likely Routes of Exposure

Product information

Acute oral LD50 (rat) =>5000 mg/kg

Acute dermal LD50 (rabbit/rat) = >5000 mg/kg

Acute inhalation LC50 (rat)= >2.21 mg/L (4 hr) No deaths

Inhalation May cause irritation of respiratory tract. May be harmful if inhaled.

Eye contact May cause slight irritation.

Skin contact Substance may cause slight skin irritation.

Ingestion MAY BE HARMFUL IF SWALLOWED.

Information on Toxicological Effects

Symptoms No information available.

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

SensitizationNo information available.Mutagenic effectsNo information available.

Carcinogenicity Metribuzin carcinogenicity - Metribuzin was investigated for carcinogenicity in chronic

feeding studies using rats and mice at maximum levels of 900 and 3200 ppm, respectively.

There was no evidence of carcinogenic potential observed in either species.

Mutagenicity - Metribuzin is not gentoxic

Developmental toxicity - In rat teratology studies, metribuzin was administered orally during gestation at doses of 25, 70, or 200 mg/kg. Maternal toxic effects were observed at all doses. At 200 mg/kg fetotoxic effects observed included reduced median placental weights, reduced median fetal weights, and increased incidence of delayed ossification.

Teratogenic effects were not observed at any of the doses tested.

The NOEL's for maternal and developmental toxicity were less than 25 and 70 mg/kg, respectively. When rabbits were administered metribuzin by oral gavage during gestation at doses of 10, 30, or 85 mg/kg, there was no evidence of any developmental effects. The NOEL's for maternal and developmental toxicity were 30 and 85 mg/kg respectively.

Reproduction - In a rat reproduction study, metribuzin was administered for 2 generations at dietary concentrations of 30, 150 or 750 ppm. Offspring at the high dose exhibited reduced body weight gains starting at day 14 lactation, an age correlating with the consumption of treated diets. The NOEL's for materials and reproductive toxicity were 30 and 750 ppm,

respectively. **Reproductive effects**Not Available.

STOT - Single Exposure
STOT - Repeated Exposure
No information available.
No information available.

Target organ effects liver, Central Nervous System (CNS), Thyroid.

Aspiration hazard No information available.

Numerical Measures of Toxicity - Product information

LD50 Oral > 5,000 mg/kg (rat) **LD50 Dermal** > 5,000 mg/kg (rat)

12. Ecological Information

Marine Pollutant.

ecotoxicity

Pendimethalin: Rainbow trout 96 hr LC50 = 0.89 mg/L Daphnia Magna 48 hr EC50 = 0.979 mg/L Green algae 72 hr EC50 = 0.0081 mg/L Mallard duck LD50 = 1421 mg/kg Honey Bee LD50 = 49.8 ug/bee

Persistence/Degradability

No information available.

Bioaccumulation/Accumulation

No information available.

Other Adverse Effects

No information available

13. Disposal Considerations

Waste Treatment Methods

Waste Disposal Method Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide or rinsate is

a violation of Federal law. If the wastes cannot be disposed of by use or according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Contaminated packaging Refer to product label.

14. Transport Information

DOTNot regulated when shipped domestically by highway in non-buk containers as per 49 CFR

171.4

UN-No UN3082

Proper shipping name Environmentally hazardous substance, liquid, n.o.s (Pendimethalin)

Hazard class 9
Packing group PG III

Marine Pollutant Marine Pollutant.

TDGWhen shipped in Canada domestic highway non-bulk this product can be shipped as Not

regulated as per TDG 1.45.1 In bulk - use IMDG description

ICAO

UN-No UN3082

Proper shipping name Environmentally hazardous substance, liquid, n.o.s (Pendimethalin)

Hazard class 9

Packing group PG III

Description Marine Pollutant

IATA

UN-No UN3082

Proper shipping name Environmentally hazardous substances, liquid, n.o.s (Pendimethalin)

Hazard class 9

Packing group PG III

Description Marine Pollutant

IMDG/IMO

UN-No UN3082 Hazard class 9 Packing group PG III

Marine Pollutant Marine Pollutant

15. Regulatory Information

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:

EPA Label Information

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Harmful if swallowed, inhaled, or absorbed through skin. Avoid contact with eyes, skin or clothing.

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and and Title 40n of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazardous

Categorization

Acute health hazardyesChronic health hazardNOFire hazardNoSudden release of pressure hazardNoReactive HazardNo

CERCLA

SARA Product RQ 0

RCRA

Pesticide Information

State Regula	tions
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State Right-to-Know

16. Other Information

NFPA HEALTH 1 flammability 0 Instability 0 Physical hazard -

Revision Summary

This data sheet was developed from information on the constituent materials identified herein and does not relate to the use of such materials in combination with any other material or process. No warranty is expressed or implied with respect to the completeness or ongoing accuracy of the information contained in this data sheet, and INNVICTIS CROP CARE LLC, disclaims all liability for reliance on such information. This data sheet is not a guarantee of safety. Users are responsible for ensuring that they have all current information necessary to safely use the product described by this data sheet for their specific purpose.

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