

# **Safety Data Sheet**

Preparation Date 30-Aug-2022 Revision Number: 7

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

Identification of the product

Product Description Acumen Microcap

Other means of identification

Product code 12-230AA UN/ID no UN3082

Registration number(s) 70506-230-55467

Recommended use of the chemical and restrictions on use

**Recommended use** Pre-emergence weed control.

Uses advised against Activities contrary to label recommendation

Details of the Supplier of the Safety Data Sheet

**Supplier Address** 

Tenkoz, Inc. 1725 Windward Concourse Suite 410 Alpharetta, GA 30005

Emergency telephone number

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

Medical: Rocky Mountain Poison and Drug Safety (866) 673-6671 (24hrs)

# 2. Hazards Identification

## Classification

## **OSHA Regulatory Status**

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

Acute toxicity - Inhalation (Vapors)	Category 3
Skin sensitization	Category 1

## Label elements

## **EMERGENCY OVERVIEW**

## **DANGER**

## **Hazard Statements**

Toxic if inhaled

May cause an allergic skin reaction



# Appearance yellow-orange Physical state Liquid Odor faint

## **Precautionary Statements - Prevention**

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

Use only outdoors or in a well-ventilated area

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

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor/physician

## **Precautionary Statements - Storage**

Store in a well-ventilated place. Keep container tightly closed Store locked up

## **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

# Hazards Not Otherwise Classified (HNOC) OTHER INFORMATION

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

# 3. Composition/information on Ingredients

Chemical name	CAS No	Weight-%
Pendimethalin	40487-42-1	38.7
[N-(1-ethylpropyl)-3,4-dimethyl-2,6-dini		
trobenzeneamine]		

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 physician or poison

control center immediately.

**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

No data available.

**Effects** 

## 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 data available.

## Specific hazards arising from the chemical

No information available.

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

#### **Explosion data**

## Protective equipment and precautions for firefighters

Use personal protective equipment. 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. Wear protective gloves/protective clothing and eye/face

protection. Wash thoroughly after handling.

**Environmental Precautions** 

**Environmental precautions**Consult a regulatory specialist to determine appropriate state or local reporting

requirements, for assistance in waste characterization and/or hazardous waste disposal

and other requirements listed in pertinent environmental permits.

## Methods and material for containment and cleaning up

Methods for Clean-Up Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder,

sawdust). Sweep up and shovel into suitable containers for disposal.

## 7. Handling and Storage

## Precautions for safe handling

Handling Pesticide applicator and workers must follow the label and Direction for Use in accordance

with the EPA Worker's Protection Standard. For manufacturing, blending or packaging the following recommendations are provided:. 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. Remove all sources of ignition. Wash

thoroughly after handling. Keep out of reach of children.

# Conditions for safe storage, including any incompatibilities

**Storage** Keep containers tightly closed in a cool, well-ventilated place.

incompatible materials No information available.

## 8. Exposure Controls/Personal Protection

**Exposure guidelines** This product does not contain any hazardous materials with occupational exposure limits

established by the region specific regulatory bodies.

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 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 state Liquid

Appearance yellow-orange Odor faint

**color** No information available

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

**pH** 7.72

Melting point/freezing point

Boiling Point/Range
Flash Point
Evaporation Rate
Flammability (solid, gas)

8.72 °C / 48 °F
No information available
No information available
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
No information available

Specific gravity 1.1705@ 20 C

Water solubility

Solubility in Other Solvents

Partition coefficient: n-octanol/waterNo information available
Autoignition temperature

No information available
no data available

Autoignition temperature
Decomposition temperature
Viscosity, kinematic
Dynamic viscosity
Explosive properties
No information available

# **OTHER INFORMATION**

Softening pointNo information availablemolecular weightNo information availableVOC ContentNo information availableLiquid DensityNo information available

# 10. Stability and Reactivity

## Reactivity

## **Acumen Microcap**

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

No information available.

## Hazardous decomposition products

None under normal use conditions.

# 11. Toxicological Information

# Information on Likely Routes of Exposure

Product information Pendimethalin 38.7% = Oral LD50 (rat) = >5,000 mg/kgDermal LD50 (rat/rabbit) = >5,000

mg/kg Inhalation LC50 (rat) = >5.39 mg/L (Max achievable breathing zone) 4 hrPrimary eye

irritation (rabbit) = Not an eye irritantPrimary dermal irritation (rabbit) = Not a skin

irritantDermal Sensitization = Not a sensitzer

**Inhalation** May cause irritation of respiratory tract.

**Eye contact** Moderately irritating to the eyes.

**Skin contact** May be harmful if absorbed through the skin.

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

Sensitization No information available.

Mutagenic effects no data available.

**Carcinogenicity**The information below indicates whether any agency has listed any ingredient as a

carcinogen.

Reproductive effects
STOT - Single Exposure
STOT - Repeated Exposure
no data available.
no data available.

**Aspiration hazard** No information available.

# Numerical Measures of Toxicity - Product information

**LD50 Oral** > 5000 mg/kg (rat) **LD50 Dermal** > 5000 mg/kg (rat)

LC50 Inhalation Inhalation LC50 > 5.39 mg/l

# 12. Ecological Information

IMDG - Marine Pollutant.

**Ecotoxicity** 

## **Acumen Microcap**

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 data available.

## **Bioaccumulation/ Accumulation**

No information available.

## **Other Adverse Effects**

no data 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

**DOT**Not regulated when shipped domestically by highway in non-buk containers as per 49 CFR

171.4

UN/ID no UN3082

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

Hazard class 9
Packing group PG III

**IMDG - Marine Pollutant** IMDG - Marine Pollutant.

**TDG** When shipped in Canada domestic highway non-bulk this product can be shipped as Not

regulated as per TDG 1.45.1

UN/ID no UN3082

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

Hazard class 9
Packing group PG III

Marine Pollutant: Y or N [List

Ingredient(s) with %]

Marine pollutant.

**ICAO** 

UN/ID no UN3082

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

Hazard class 9
Packing group PG II

**Description** IMDG - Marine Pollutant

## **Acumen Microcap**

IATA

UN/ID no UN3082

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

Hazard class 9

Packing group PG III

**Description** IMDG - Marine Pollutant

**IMDG** 

UN/ID no UN3082

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

Hazard class 9

Packing group PG III

Environmental hazards IMDG - 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:

Signal word CAUTION

**Ventilation Control** PESTICIDE APPLICATORS & WORKERS THESE WORKERS MUST REFER TO

PRODUCT LABELING AND DIRECTIONS FOR USE IN ACCORDANCE WITH EPA

WORKER PROTECTION STANDARD 40 CFR PART 170.

Causes moderate eye irritation. Harmful if swallowed or absorbed through the skin. Toxic to fish.

## **International Inventories**

USINV Not present
DSL/NDSL Not present
EINECS/ Not Present

**ELINCS** 

ENCS Not Present
China Not Present
KECL Not Present
PICCS Not Present
AICS Not Present
TSCA Not Present

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 Title 40 of the Code of Federal Regulations, Part 372:

## **CERCLA**

Not applicable

CERCLA

SARA Product RQ 0

**RCRA** 

**Pesticide Information** 

**State Regulations** 

## State Right-to-Know

Chemical name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Pendimethalin		X			
[N-(1-ethylpropyl)-3,4-dimethyl					
-2,6-dinitrobenzeneamine] -					
40487-42-1					

## International regulations

U.S. EPA Label information

EPA Pesticide registration number 70506-230-55467

# 16. Other Information

NFPA HEALTH 1 flammability 1 Instability 0 Physical hazard -

Preparation Date30-Aug-2022Revision date05-Sep-2019

**Revision Summary** 

Update logo **Disclaimer** 

Tenkoz, Inc. believes that the information and recommendations container herein (including data and statements) are accurate as of the date hereof. NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY, OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, IS MADE CONCERNING THE INFORMATION PROVIDED HEREIN. The information provided herein relates only to the specific product designated and may not be valid where such product is used in combination with other materials or in any process. Further, since the conditions and methods of use are beyond the control of Tenkoz, Inc. and Tenkoz, Inc. expressly disclaims any and all liability as to any results obtained or arising from any use of the product or reliance on such information.

**End of SDS**