

# **Safety Data Sheet**

**Pinion** 

# **SECTION 1: Identification**

1.1 Product identifier

Product name Pinion

1.2 Other means of identification

Not applicable

1.3 Recommended use of the chemical and restrictions on use

To be used as a minimum risk pesticide. For specific intended-use guidance, please refer to the information provided on the package or instruction sheet.

1.4 Supplier's details

Name Advancing Eco Agriculture Address 4551 Parks West Road

Middlefield, OH 44062

USA

Telephone (330) 442-0678

1.5 Emergency phone number(s)

(800) 495-6603

# **SECTION 2: Hazard identification**

# 2.1 Classification of the substance or mixture

GHS classification in accordance with: (US) OSHA (29 CFR 1910.1200)

- Eye damage/irritation, Cat. 2A

# 2.2 GHS label elements, including precautionary statements

**Pictogram** 



Signal word Warning

Hazard statement(s)

H319 Causes serious eye irritation

Precautionary statement(s)

P264 Wash hands thoroughly after handling.
P280 Wear eye protection/face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

# 2.3 Hazards not otherwise classified (HNOC)

No data available

# **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances

Not applicable.

#### 3.2 Mixtures

Component	Concentration*
Water (CAS no.: 7732-18-5)	60 - 80 % (weight)
Maltodextrin (CAS no.: 9050-36-6)	10 - 30 % (weight)
Vinegar (CAS no.: 8028-52-2)	7 - 13 % (weight)
Citric acid (CAS no.: 77-92-9)	1 - 5 % (weight)
Lactic acid (CAS no.: 50-21-5)	1 - 5 % (weight)
Glucose (CAS no.: 50-99-7)	0.1 - 1 % (weight)
Cinnamon Oil (CAS no.: 8015-91-6)	0.1 - 1 % (weight)

<sup>\*</sup>The actual concentrations for one or more listed components are being withheld as trade secrets under the US regulation 29 CFR 1910.1200(i).

#### **SECTION 4: First-aid measures**

#### 4.1 Description of necessary first-aid measures

If inhaled No first aid measures are normally required. Move to fresh air and promote

deep breathing. Get medical attention if effects persist.

In case of skin contact Get medical attention if irritation or rash develops or persists. Wash with

plenty of soap and water.

In case of eye contact Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. If irritation persists, get medical

attention.

If swallowed Call a poison center or doctor if you feel unwell. If vomiting occurs naturally,

have victim lean forward to reduce the risk of aspiration. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything

by mouth to an unconscious person.

# 4.2 Most important symptoms/effects, acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

If inhaled No adverse effects are normally expected.

In case of skin contact

No adverse effects are normally expected. May cause an allergic skin

reaction in highly susceptible individuals.

In case of eye contact

Causes serious eye irritation. Signs/symptoms may include redness,

swelling, pain, tearing, and blurred or hazy vision.

If swallowed May cause gastrointestinal irritation. Signs/symptoms may include abdominal

pain, stomach upset, nausea, vomiting and diarrhea.

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

Treat symptomatically.

# **SECTION 5: Fire-fighting measures**

# 5.1 Suitable extinguishing media

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

# 5.2 Specific hazards arising from the chemical

Product is not flammable or combustible.

## 5.3 Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

## **Further information**

No data available

# **SECTION 6: Accidental release measures**

## 6.1 Personal precautions, protective equipment and emergency procedures

Wear personal protection recommended in Section 8. Avoid contact with eyes.

#### 6.2 Environmental precautions

Do not release into the environment.

#### 6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose in accordance with applicable Federal, State and local laws and regulations.

#### Reference to other sections

For disposal see section 13.

# **SECTION 7: Handling and storage**

# 7.1 Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practices. Avoid contact with eyes.

# 7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry, cool and well-ventilated place. Keep out of reach of children. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

## Specific end use(s)

Apart from the uses mentioned in section 1 no other specific uses are stipulated.

# **SECTION 8: Exposure controls/personal protection**

# 8.1 Control parameters

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

Vinegar (CAS no.: 8028-52-2) as Acetic acid PEL-TWA: 10 ppm (25 mg/m³) (OSHA) REL-TWA: 10 ppm (25 mg/m³) (NIOSH) REL-STEL: 15 ppm (37 mg/m³) (NIOSH)

TLV-TWA: 10 ppm (ACGIH) TLV-STEL: 15 ppm (ACGIH)

PEL-TWA: 10 ppm (25 mg/m3) (Cal/OSHA)

#### 8.2 Appropriate engineering controls

Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, gas, etc.) below recommended exposure limits.

## 8.3 Individual protection measures, such as personal protective equipment (PPE)

#### **Pictograms**





## Eye/face protection

Safety glasses are recommended if eye exposure risk exists during product handling/processing.

#### Skin protection

Protective gloves, such as nitrile gloves, are recommended in case of prolonged/repeated exposure during product handling/processing.

#### **Body protection**

The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Respiratory protection

Provide adequate ventilation. Respiratory protection is not required under normal use conditions. If engineering controls and ventilation are not sufficient to control exposure to below the allowable limits then an appropriate NIOSH/MSHA approved air-purifying respirator must be used.

# Thermal hazards

No data available.

## **Environmental exposure controls**

Do not release into the environment.

# **SECTION 9: Physical and chemical properties**

# Information on basic physical and chemical properties

Physical state Liquid.

Appearance Amber liquid.

Color Amber.

Odor Characteristic.

Odor threshold No data available. Melting point/freezing point No data available. Initial boiling point and boiling range No data available. Lower and upper explosion limit/flammability limit No data available. Flash point No data available. Auto-ignition temperature No data available. Decomposition temperature No data available. No data available. pΗ Kinematic viscosity No data available. Viscosity No data available. Solubility Soluble in water. Partition coefficient n-octanol/water (log value) No data available. No data available. Vapor pressure Relative density No data available. Relative vapor density No data available. Particle characteristics Not applicable.

# Other safety information

No data available.

# **SECTION 10: Stability and reactivity**

# 10.1 Reactivity

Non-reactive under normal use conditions.

#### 10.2 Chemical stability

Stable under normal storage conditions.

# 10.3 Possibility of hazardous reactions

No data available.

#### 10.4 Conditions to avoid

Keep away from incompatible materials.

# 10.5 Incompatible materials

Strong oxidizers, reactive metals.

## 10.6 Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# **SECTION 11: Toxicological information**

## Information on toxicological effects

Likely Routes of Exposure: Eye contact. Skin contact. Inhalation.

If inhaled No adverse effects are normally expected.

In case of skin contact

No adverse effects are normally expected. May cause an allergic skin

reaction in highly susceptible individuals.

In case of eye contact Causes serious eye irritation. Signs/symptoms may include redness,

swelling, pain, tearing, and blurred or hazy vision.

If swallowed

May cause gastrointestinal irritation. Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

## **Acute toxicity**

Based on available data, classification criteria are not met

#### Skin corrosion/irritation

Based on available data, classification criteria are not met

## Serious eye damage/irritation

Causes serious eye irritation

## Respiratory or skin sensitization

Based on available data, classification criteria are not met

#### Germ cell mutagenicity

Based on available data, classification criteria are not met

#### Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by IARC.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

## Reproductive toxicity

Based on available data, classification criteria are not met

#### STOT-single exposure

Based on available data, classification criteria are not met

#### STOT-repeated exposure

Based on available data, classification criteria are not met

#### **Aspiration hazard**

Based on available data, classification criteria are not met

# **SECTION 12: Ecological information**

#### **Toxicity**

No data available on product.

# Persistence and degradability

No data available on product.

# **Bioaccumulative potential**

No data available on product.

## Mobility in soil

No data available on product.

# Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

#### Other adverse effects

No ecological problems are to be expected when the product is handled and used with due care and attention.

# **SECTION 13: Disposal considerations**

## Disposal of the product

Disposal should be in accordance with applicable Federal, State and local laws and regulations. Local regulations may be more stringent than State or Federal requirements.

## Disposal of contaminated packaging

Dispose of as unused product.

# **SECTION 14: Transport information**

# DOT (US)

Not dangerous goods

#### **IMDG**

Not dangerous goods

#### IATA

Not dangerous goods

# **SECTION 15: Regulatory information**

# 15.1 Safety, health and environmental regulations specific for the product in question

#### **SARA 302 Components**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

#### SARA 311/312 Hazards

Acute SARA Hazard.

#### **SARA 313 Components**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### **HMIS Rating**

HEALTH 2 FLAMMABILITY 0 PHYSICAL HAZARD 0

# **NFPA Rating**



# **SECTION 16: Other information**

## 16.1 Further information/disclaimer

Date of issue: November 3, 2025.

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