



Safety Data Sheet

Pinion For Home And Garden

SECTION 1: Identification

1.1 Product identifier

Product name Pinion For Home And Garden

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)

Not a hazardous substance or mixture.

2.2 GHS label elements, including precautionary statements

Not a hazardous substance or mixture.

2.3 Hazards not otherwise classified (HNOC)

No data available

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable.

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3.2 Mixtures

Component	Concentration*
Water (CAS no.: 7732-18-5)	80 - 100 % (weight)
Maltodextrin (CAS no.: 9050-36-6)	1 - 5 % (weight)
Vinegar (CAS no.: 8028-52-2)	1 - 5 % (weight)
Citric acid (CAS no.: 77-92-9)	0.1 - 1 % (weight)
Lactic acid (CAS no.: 50-21-5)	0.1 - 1 % (weight)
Glucose (CAS no.: 50-99-7)	<0.1 % (weight)
Cinnamon Oil (CAS no.: 8015-91-6)	<0.1 % (weight)

*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	May cause mild 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

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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

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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.
pH	No data available.
Kinematic viscosity	No data available.
Viscosity	No data available.
Solubility	Soluble in water.
Partition coefficient n-octanol/water (log value)	No data available.
Vapor pressure	No data available.
Relative density	1.04
Relative vapor density	No data available.
Particle characteristics	Not applicable.

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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	May cause mild 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

Based on available data, classification criteria are not met

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

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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

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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

No SARA hazards.

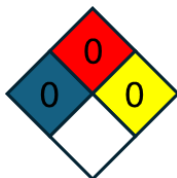
SARA 313 Components

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	0
FLAMMABILITY	0
PHYSICAL HAZARD	0

NFPA Rating



SECTION 16: Other information

16.1 Further information/disclaimer

Date of issue: November 3, 2025.

DISCLAIMER: The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigation to determine the suitability of information for their particular purposes. All materials may present unknown hazards and should be used with caution. In no event shall we be held liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, whatsoever arising, even if we have been advised of the possibility of such damages.