



House and Garden® Roots Excelurator

<p>1. Identification of the Product and the Company</p> <p>Product Name : Roots Excelurator Manufacturer : House and Garden Inc. 4700 West End Rd. Arcata, CA 95521 USA Emergency Phone : House and Garden: (707) 382-9636 24-hour Poison Control Center: (800) 222-1222 24-hour HAZMAT Emergency Response: (888) 255-3924 Recommended Use : Liquid plant nutrient concentrate</p>
<p>2. Hazard(s) Identification</p> <p>Classifications: None.</p> <p>Pictograms: None.</p> <p>Signal word: None.</p> <p>Hazard Statements: None.</p> <p>Precautionary Statements: P102 Keep out of reach of children</p> <p>Storage: Avoid overheating or freezing.</p> <p>Disposal: Dispose of contents and containers in accordance with all federal, state, and local regulations.</p>
<p>3. Composition / Information on Ingredients</p> <p>Chemical Description : Mixture Description : Mixture of innocuous compounds. Hazardous Ingredients : None.</p> <p style="text-align: right;">*Percent concentrations withheld because they are a trade secret.</p>
<p>4. First Aid Measures</p> <p>Inhalation : Move to fresh air and monitor health. Seek medical attention if complications arise.</p> <p>Skin : Symptoms may include skin irritation in sensitive individuals. Remove contaminated clothing, thoroughly wash exposed area with water and soap for 15 minutes. Call a doctor or poison control center for treatment advice if symptoms persist.</p> <p>Eyes : Hold eye open and rinse gently with water for at least 15 minutes, ensuring to flush underneath the eyelids. Call a doctor or poison control center for treatment advice.</p> <p>Ingestion : Gastro-intestinal irritant. Call a doctor or poison control center for immediate treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless advised to do so by a medical professional. Do not give anything by mouth to an unconscious person.</p> <p>First Aid Facilities : Water, wash facilities</p>



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5. Fire Fighting Measures

Extinguishing Media : The product itself is not combustible; in case of fire in its immediate environment, preferred extinguishing media are water spray, foam, CO₂, dry ice.

Unsuitable

Extinguishing Media : Water jet.

Hazards from combustion : Decomposes on heating.

Protective equipment : In case of fire, wear a self-contained breathing apparatus and eye protection.

6. Accidental Release Measures

Emergency Procedures : Ensure adequate ventilation. Wear safety glasses and appropriate gloves. Chemical-resistant gloves are needed for the sustained contact. Disposable nitrile gloves are adequate for incidental contact (rinse hands after removing gloves). Prevent product from entering sewer drains or surface waters.

Personal Precautions : Avoid contact with skin and eyes.

Containment and Cleanup, Materials, Methods, Procedure : Stop the source of the spill. Control the spill using floor dry, absorbent materials booms/socks, or towels. Clean up the spill using absorbent.

Disposal subject to all applicable federal, state, and local regulations.



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7. Handling & Storage

Handling:

Keep out of reach of children. Not for internal use. Avoid contact with skin and eyes. Irritates the skin, mucous membranes, eyes and gullet. Wear suitable protective clothing.

In case of contact with skin or eyes, wash immediately with plenty of water.

Technical precautions: safety shower and eye shower stations.

Store at a temperature between 7 and 30 degrees Centigrade.

Storage:

Storage conditions: Take all necessary precautions to prevent contamination in case of damaged containers. Store the containers on drip trays or barrier material to prevent product from being discharged to the sewer or surface water. Avoid rough handling to ensure structural integrity.

8. Exposure Control/Personal Protection

Exposure and	:	OSHA PEL	ACGIH TLV
Threshold Limits		ppm mg/m ³	TWA (mg/m ³) STEL (mg/m ³)
		n/a	n/a

OSHA PEL: Occupation Safety and Health Administration Permissible Exposure Limits

ACGIH TLV: American Conference of Governmental Industrial Hygienists threshold limit value

TWA: Time-weighted Average (for a conventional 8-hour workday)

STEL: Short Term Exposure Limit (a 15-minute, time-weighted average concentration to which workers may be exposed up to four times per day with at least 60 minutes between successive exposure)

Engineering Controls : Access to running water and an eye wash station.

Personal Protective Equipment:

Skin : Nitrile gloves advised.

Eyes : Wear safety glasses or goggles when working with this product in case of accidental splash or mist. Ensure an eye-wash station is near work area.

Respiratory : No special safety equipment needed. Avoid inhaling mists or fumes by using appropriate handling methods.

9. Physical & Chemical Properties

Appearance : Dark brown fluid

Upper flammability limit : Unavailable

Lower flammability limit : Unavailable

Odor : Mild herbaceous scent

Vapor Pressure : Unavailable

Odor Threshold : Unavailable

Vapor Density : Unavailable

pH : 5-9

Density : 1.30 kg/L at 30°C

Melting Point : Unavailable

Freezing Point : 0° C

Solubility : Fully soluble

Boiling Point : Unavailable

Boiling Range : Unavailable

Crystallization temperature : <7°C

Flash Point : Unavailable

Evaporation Rate : Unavailable

Danger of Explosion : None.

Flammability : n/a

Auto-ignition Temperature : Material is not self-igniting.

Decomposition Temperature: Unavailable

Vapor Pressure : Unavailable

Viscosity : Unavailable

Partition Coefficient (n-octanol/water) : Unavailable



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10. Stability & Reactivity

Chemical Reactivity : No reactivity anticipated. Poses little or no immediate hazard.
Chemical Stability : Stable under normal conditions of use and storage. No stabilizers needed.
Color change is not indicative of any safety issues.
Conditions to Avoid : Do not expose to heat in excess of 200°C.
Materials to Avoid : None.
Suitable Materials : All.

11. Toxicological Information

Routes of Entry : Eye, skin contact, inhalation, and ingestion.
Eyes : Immediate and delayed irritation, reddening in acute and chronic exposure.
Skin : Immediate and delayed irritation. Long term exposure may cause skin degradation. Chronic exposure to be avoided.
Inhalation : Fumes are not produced in standard environmental storage conditions.
Ingestion : Acute and chronic ingestion may result in abdominal discomfort, vomiting, weakness, shock, collapse, and unconsciousness.
LD50 : Unavailable
Carcinogenic Properties : None of the mixture ingredients are listed on the National Toxicology Program Report on Carcinogens or on the International Agency for Research on Cancer Monographs.

12. Ecological Information

Ecotoxicity : There is no data specific to this product. It is potentially toxic to the organisms in its concentrated form.
Persistence and Degradability : Inherently biodegradable. Non-persistent.
Mobility : Mobile in aqueous solutions.
Bioaccumulation Potential : Chemicals will be held in vegetative material with no toxic effects to livestock or humans.
Environmental Protection : Do not release into surface waters. Contamination can cause algae blooms and anoxic conditions, both of which are harmful to aquatic ecosystems.
Leaching : Limited potential.



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13. Disposal Information

Soiled containers : Rinse clean with water. Recycle if available.
Remainders/unused product: Ensure that disposal is in compliance with all federal, state, and local regulations.

14. Transport Information

Shipping Information : House & Garden Roots Excelurator
Harmonized System Commodity classification Code: 310590
Commodity Classification Standards Board : Code 70, non-hazardous

15. Regulatory Information

OSHA Hazards
None of the ingredients are listed.

OSHA Designated Carcinogens
None of the ingredients are listed.

TSCA (Toxic Substances Control Act)
None of the ingredients are listed.

USDOT Hazardous Materials
None of the ingredients are listed.

EPA (List of Lists)/ SARA
None of the ingredients are listed.

NIOSH
None of the ingredients are listed.

16. Other Information

The information provided in this Safety Data Sheet is to our best knowledge and belief, accurate and reliable as of the date compiled. However, no warranty or guarantee is made in this respect. It remains the user's responsibility to ensure the suitability and completeness of this information for a particular application. House and Garden Inc. does not accept liability for any damage or loss that may arise from the use of this information.

Last Modified: 6/11/2020 for conversion from MSDS to SDS
2/26/2021 added freezing point value