



Safety Data Sheet

Report Date 05-Nov-15

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1. Identification

Product Name : RECEPTOR
Synonyms : None
Product Use : Plant Growth Regulator
Manufacturer/Supplier : Helena Chemical Company
Address : 225 Schilling Blvd. Collierville, TN 38017
General Information : 901-761-0050
Transportation Emergency Number : CHEMTREC:800-424-9300

2. Hazard Identification



Signal Word : Warning
Skin Irritation : Causes skin irritation
Eye Irritation : Causes serious eye irritation
Acute Toxicity Oral : No LD50 data available
Acute Toxicity Dermal : No LD50 data available

Hazard Categories : Oral/Dermal/Inhalation Toxicity-5/5/5; Eye/Skin Irritation-2A/2

Hazard Statement : May be harmful if swallowed
May be harmful in contact with skin
Causes serious eye irritation
Causes skin irritation
May be harmful if inhaled

3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Indole-3-Butyric Acid (IBA) Technical	133-32-4	42 ppm
Gibberellic Acid (GA3) Technical	77-06-5	26 ppm
Kinetin (Cytokinin) Technical	525-79-1	84 ppm
Proprietary blend of potassium hydroxide (CAS No. 1310-58-3), polyphenolic and carboxylic acids.	Proprietary	>99.00

4. First Aid Measures

Eye : Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for further treatment advice.

Skin : Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.

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 poison control center or doctor immediately for treatment advice. Rinse mouth with water. Do not induce vomiting. Do not give anything by mouth if unconscious.

Indication of Immediate Medical Attention and Special Treatment Needed : In the event of an adverse response, treatment should be directed toward control of the symptoms.



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5. Fire Fighting Measures

- Extinguishing Media** : Use water fog, foam, dry chemical or carbon dioxide extinguishing agents.
Specific Hazards Arising from the Chemical : None currently known.
Special Fire Fight Proc : Wear self-contained breathing apparatus and full protective clothing.

6. Accidental Release Measures

- Personal Precautions** : Keep unprotected and unnecessary personnel out of spill area.
Protective Equipment : Splashproof goggles or face shield, impervious gloves, impervious apron and footwear. Respiratory protection not normally needed. Eyewash and emergency shower should be available in work area.
Emergency Procedures : Do not allow spilled product to impact waterways, drains, sewers, etc.
Methods and Materials for Containment and Cleanup : Absorb small spills with inert material, such as clay or sand. Collect and place in suitable containers for proper disposal. Collect free liquids from large spills and place in suitable containers for reuse or disposal.

7. Handling and Storage

- Precautions for Safe Handling** : Do not contaminate water, food or feed by storage, handling or disposal. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Do not contaminate water, food or feed by storage, handling or disposal. Keep container tightly closed. Do not allow water to be introduced into the contents of the container. Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwater or rinsate.
Conditions for Safe Storage : Store in original container only. Protect from freezing. Store out of direct sunlight.

8. Exposure Controls / Personal Protection

- TLV/PEL** : Indole-3-Butyric Acid: PEL=5 mg/m³ (respirable dust), TLV=10 mg/m³ (inhalable particles). Gibberellic Acid: no TLV or PEL established. Kinetin: no TLV or PEL established.
Appropriate Engineering Controls : Local exhaust normally sufficient.
Personal Protective Equipment : Splashproof goggles or face shield, impervious gloves, impervious apron and footwear. Respiratory protection not normally needed. Eyewash and emergency shower should be available in work area.

9. Physical and Chemical Properties

- Odor/Appearance** : Clear, black liquid with ammonia odor.
Flash Point, °F : Not flammable
Boiling Point, °F : 100 Degrees C.
Melting Point(Freezing point), °C : <0 Degrees C.
Vapor Pressure, mm Hg @ 20 °C : 570 mmHg
Vapor Density : No information found
Solubility in Water : Soluble in water
Molecular Formula : Not applicable, formulated mixture.
Density, g/mL @ 25 °C : 1.013-1.033
Evaporation Rate(Butyl Acetate = 1) : No information found



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Octanol/Water Partition Coefficient : No information found
pH : 9.0 to 10.0
Flammable Limits (approximate volume % in air) : No information found
Auto-ignition Temperature : Not applicable
Decomposition temperature : No information found

10. Stability and Reactivity

Reactivity : No information found
Chemical Stability : Stable
Hazardous Decomposition Products : At extreme temperatures, carbon monoxide (CO), an oxidation product, may be evolved.
Hazardous Polymerization : Will not occur
Conditions to Avoid : Do not mix with strong acids.
Incompatible Materials : Neutralization reaction will occur if exposed to acidic materials.

11. Toxicological Information

Acute Toxicity (Oral LD50) : No LD50 established. May be harmful if swallowed.
Acute Toxicity (Dermal LD50) : No LD50 established. May be harmful in contact with skin.
Acute Toxicity Inhalation LC50 : No LC50 established. May be harmful if inhaled.
Likely Routes of Exposure : Skin, eyes
Skin Irritation : Causes skin irritation.
Eye Irritation : Causes serious eye irritation.
Skin Sensitization : Not listed as a sensitizer.
Carcinogenic : Not listed by IARC, NTP or OSHA.
Chronic Effects : None currently known.
Other Hazards : None currently known.

12. Ecological Information

Ecotoxicity : No information found
Persistence and Degradability : No information found
Bioaccumulative Potential : No information found
Mobility in Soil : No information found
Other Adverse Effects : No information found

13. Disposal Considerations

Waste Disposal Method : This material must be disposed of according to Federal, State or Local procedures under the Resource Conservation and Recovery Act.

14. Transport Information

UN Proper Shipping Name : Not regulated by DOT in package sizes offered. See Transportation Note.
Transport Hazard Class : None
UN Identification Number : None
Packaging Group : None



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- Environmental Hazards** : No information found. Reportable Quantity (RQ), Potassium Hydroxide = 1,000 lbs/>9,803 gallons.
- Transport in Bulk** : If shipped by ground (DOT) in single containers >9,803 gallons, ship as: RQ, UN3082, Environmentally Hazardous Substance, Liquid, n.o.s. (Potassium Hydroxide), 9, PG III "ERG # 171"
- Special Precautions for Transportation** : If shipped by air (IATA) or water (IMDG) in any size package, ship as: UN1760, Corrosive Liquid, n.o.s. (Potassium Hydroxide), 8, PG III
- Freight Classification** : Pesticides, NOI, Plant Growth Regulator, Other than Poison (NMFC Item 155050, Sub 11, Class 70)

15. Regulatory Information

National Fire Protection Association Rating :

Health: 2 Fire: 0 Reactivity: 1
Rating Level: (4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Minimum)

S.A.R.A Title III Hazard Classification (Yes/No) :

Immediate(Acute) Health: Y
Delayed (Chronic) Health: N
Sudden Release of Pressure: N
Fire: N
Reactive: N

FIFRA Information : This Chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labelling 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 Registration Number : 5905-594

FIFRA Signal Word : Caution

FIFRA Label Statement : Keep out of reach of children.

FIFRA Label Statement : Applicators and other handlers must wear: Long-sleeved shirt and long pants, shoes plus socks.

FIFRA Label Statement : Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions

FIFRA Label Statement : for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

FIFRA Label Statement : No additional label statements.

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16. Other Information

Data of Preparation/Revision : 05-November-2015