

Report Date 24-Apr-20

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1. Identification

Product Name: EndRun **Synonyms**: None

Product Use: DMA Salts of 2,4-D, MCPP-p, and Dicamba

Manufacturer/Supplier : Helena Agri-Enterprises, LLC

Address: 225 Schilling Blvd. Collierville, TN 38017

General Information: 901-761-0050

Transportation Emergency Number : CHEMTREC:800-424-9300

2. Hazard Identification







Signal Word : Danger

Skin Irritation : Not classified as hazardous under 29 CFR 1910.1200 (2012)

Eye Irritation : Causes serious eye damage

Acute Toxicity Oral : LD50 >1,500 mg/kg
Acute Toxicity Dermal : LD50 >2,000 mg/kg

Hazard Categories : Oral/Dermal/Inhalation Toxicity-4/4/5; Eye Irritation-1; Skin Sensitization-1;

Flammable Liquid-3

Hazard Statement: Harmful if swallowed

Harmful in contact with skin May be harmful if inhaled Causes serious eye damage May cause an allergic skin reaction Flammable liquid and vapour

3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Dimethylamine Salt of 2,4-Dichlorophenoxyacetic Acid (2,4-D)	2008-39-1	30.56
Dimethylamine Salt of 3,6-Dichloro-o-anisic Acid (Dicamba	2300-66-5	2.77



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Dimethylamine Salt of (+)-(R)-2-(2-Methyl-4-chlorophenoxy) propionic acid (MCPP-p) Inert ingredients 66423-09-4 8.17

Proprietary 58.50

4. First Aid Measures

Eye: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eyes wide open while rinsing. Remove contact lenses, if present and easy to do. Continue rinsing. Do not rub affected area. Call a physician.

Skin: Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. May cause an allergic skin reaction. If

symptoms persist, call a physician.

Symptoms persist, can a physicia

Inhalation: Remove to fresh air. Get medical attention immediately if symptoms occur.

Ingestion: Call a poison control center or doctor immediately for treatment advice. Rinse mouth with water. Do not induce Do not induce vomiting. Rinse mouth with water

then drink plenty of clean water afterwards. Never give anything by mouth if

unconscious.

Indication of Immediate Medical Attention and Special Treatment Needed

Indication of Immediate Medical : May cause sensitization in susceptible persons. Probable mucosal damage may

contraindicate the use of gastric lavage. Treat symptomatically.

5. Fire Fighting Measures

Extinguishing Media: Use dry chemical, carbon dioxide, water spray or alcohol-resistant foam.

Specific Hazards Arising from the : In the event of fire and/or explosion do not breathe fumes. Thermal

Chemical decomposition can lead to release of irritating and toxic gases and vapors.

Product is or contains a sensitizer. May cause sensitization by contact.

Special Fire Fight Proc : Wear positive-pressure breathing apparatus and full protective clothing.

6. Accidental Release Measures

Personal Precautions: Keep unauthorized and unnecessary personnel out of spill area. Do not touch spilled material.

Protective Equipment : Splashproof goggles or face shield, impervious gloves, impervious apron and

footwear. If exposure limits may be exceeded, wear a respirator with an organic-vapor removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a NIOSH approved respirator

with any R, P or HE filter. Eyewash and emergency shower should be available in work area.

Emergency Procedures: Do not allow spilled material or wash waters to enter any lakes, streams, ponds,

sewers or waterways.

Methods and Materials for: Contain and absorb spilled material on an inert absorbent, such as sand or soil. **Containment and Cleanup**Collect into drums; cover and label for disposal. Flush area with water if possible.

7. Handling and Storage



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Precautions for Safe Handling: Do not contaminate water, food or feed by storage, handling or disposal.

Conditions for Safe Storage : Store in original container in a locked storage area inaccessible to children or

pets. Keep from freezing.

8. Exposure Controls / Personal Protection

TLV/PEL : No TLV or PEL established.

Appropriate Engineering Controls : Good local ventilation is recommended; mechanical ventilation may be required if

exposure limits may be exceeded.

Personal Protective Equipment: Splashproof goggles or face shield, impervious gloves, impervious apron and

footwear. Wear a respirator with an organic-vapor removing cartridge with pesticide prefilter. Eyewash and emergency shower should be available in work

area.

9. Physical and Chemical Properties

Odor/Appearance: Brown liquid with amine odor.

Flash Point, oF: 129 Degrees F.

Boiling Point, oF: 212 Degrees F.

Melting Point(Freezing point), oC : <35 Degrees F.

Vapor Pressure, mm Hg @ 20 oC : <17 mmHg @ 78 Deg. F.

Vapor Density : >1

Solubility in Water : Infinite

Molecular Formula: Not applicable, formulated mixture.

Density, g/mL @ 25 oC : 1.126

Evaporation Rate(Butyl Acetate = : <1

1)

Octanol/Water Partition : No information found

Coefficient

pH: 7.5 to 8.5

Flammable Limits (approximate : Not applicable

volume % in air)

Auto-ignition Temperature : Not determined

Decomposition temperature : No information found

10. Stability and Reactivity

Reactivity: No information found

Chemical Stability : Stable

Hazardous Decomposition : May produce gases such as HCl, nitrogen oxides, and carbon monoxide when

Products burning.

Hazardous Polymerization : Will not occur



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Conditions to Avoid : None currently known.

Incompatible Materials: Do not mix with acidic materials, as this will ruin the product.

11. Toxicological Information

Acute Toxicity (Oral LD50) : >1,500 mg/kg. Harmful if swallowed.

Acute Toxicity (Dermal LD50) : >2,000 mg/kg. May be harmful in contact with skin.

Acute Toxicity Inhalation LC50 : No LC50 listed. May be harmful if inhaled. Moderately irritating to the mucous

membranes.

Likely Routes of Exposure : Eyes, skin, ingestion

Skin Irritation : Causes skin irritation. Moderately irritating to skin. May be absorbed through skin.

Eye Irritation: Causes eye irritation. Contact causes irritation and burning.

Skin Sensitization: Not listed as a skin sensitizer.

Carcinogenic: IARC lists chlorophenoxy herbicides in Group 2B (limited evidence for

carcinogenicity in humans).

Chronic Effects: Individuals with chronic skin disease or known sensitivity to chlorophenoxy

compounds should either avoid using them or take strict precautions to avoid

contact.

Other Hazards : None currently known.

12. Ecological Information

Ecotoxicity: This product is toxic to aquatic invertebrates. Drift or runoff may adversely affect

aquatic invertebrates and nontarget plants.

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 containers less than 41.32 gallons.

Transport Hazard Class : None
UN Identification Number : None
Packaging Group : None



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Environmental Hazards: Marine Pollutant, if shipped in bulk package or shipped by air (IATA) or vessel

(IMDG).

If shipped in single package >/= 34 gallons, ship as: RQ, UN3082, Transport in Bulk:

Environmentally Hazardous Substance, Liquid, n.o.s., (2,4-D Acid,), 9, PG III

(add "Marine Pollutant" for bulk packages)

Transportation

Special Precautions for : The low flash point of this product is due to a minor component in the mixture. This product would not sustain combustion as specified in 49 CFR 173, Appendix H.

Freight Classification: Pesticides, NOI, Herbicides, Other than Poison (NMFC Item 155050, Sub 11,

Class 70)

15. Regulatory Information

National Fire Protection : Association Rating

> 2 Health: Fire: 2 Reactivity: 0

> > 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: Y

Sudden Release of N

Pressure: Fire: Y 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 : 2217-656-5905

FIFRA Signal Word : Danger

FIFRA Label Statement: Keep out of reach of children.

FIFRA Label Statement : Danger: Corrosive. Causes irreversible eye damage.

FIFRA Label Statement : Harmful if swallowed.

FIFRA Label Statement : Harmful if absorbed through skin.

FIFRA Label Statement: Do not get in eyes, on skin or on clothing.

FIFRA Label Statement: Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, FIFRA Label Statement : using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

16. Other Information

Data of Preparation/Revision : 24-April-2020