

Riverdale

1333 Burr Ridge Parkway, Suite 125A
Burr Ridge, Illinois 60521-0866

Emergency Phone (CHEMTREC): (800) 424-9300

Information Phone: (800) 345-3330

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Product Code: B313R

MSDS Number: 313

MATERIAL SAFETY DATA SHEET:

Horsepower Selective Herbicide

1. INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>CAS #</u>	<u>Weight %</u>	<u>Common Name</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Dimethylamine Salt of 2-Methyl-4-Chlorophenoxyacetic Acid	2039-46-5	48.99%	DMA Salt of MCPA	N/A	N/A
Triethylamine Salt of 3,5,6-Trichloro-2-Pyridmyloxyacetic Acid	057213-69-1	5.59%	Triclopyr	N/A	N/A
Dimethylamine salt of Dicamba (3,6-Dichloro-o-Anisic Acid)	2300-66-5	4.82%	DMA Salt of Dicamba	N/A	N/A
Water and Sequesterents	N/A	<u>40.60%</u>	Inert Ingredients	N/A	N/A
	Total	100.00%			

2. HEALTH DATA

PRIMARY ROUTE OF ENTRY:

Dermal/ Eye: Yes Oral: Yes Inhalation: No

SYMPTOMS OF OVEREXPOSURE:

Nonspecific: muscle weakness, lethargy, loss of appetite, abdominal pains, headache, or shortness of breath.

ACUTE HEALTH EFFECTS

Inhalation:

Avoid inhaling vapors or mist. May irritate the respiratory tract or cause dizziness.

Eyes:

Direct and prolonged eye exposure to the concentrated product may cause corneal opacity, irreversible cyc damage.

Skin:

May cause mild skin irritation or dermal sensitization reactions in some individuals. Harmful if absorbed through skin. Prolonged or repeated overexposure may result in effects similar to those caused by ingestion.

Ingestion:

May cause muscle weakness, nausea, diarrhea, and abdominal pain. Fall in blood pressure or myotonia (prolonged muscular spasm) may occur under extreme exposure conditions. Can be fatal.

TOXICOLOGICAL DATA

Acute Oral LD50:

500-5000 mg/ kg (rats)

Acute Dermal LD50:

2000-5000 mg/ kg (rabbits)

Acute Inhalation LC50:

no mortality at > 2.2 mg/ l, maximum obtainable concentration (rabbits)

Eye Irritation:

corrosive, irreversible eye damage (rabbits)

Dermal Irritation:

slight irritant (rabbits)

Dermal Sensitization:

not a sensitizer (guinea pigs)

**MEDICAL CONDITIONS POSSIBLY
AGGRAVATED BY EXPOSURE:**

Skin exposure may aggravate existing skin conditions. Exposure to mist may aggravate existing respiratory conditions.

CHRONIC HEALTH EFFECTS:

Agency Listing	Carcinogen	
<u>NTP</u>	<u>IARC</u>	<u>OSHA</u>
No	No	No

Chronic overexposure to dicamba may cause liver changes or a decrease in body weight. The EPA's Science Advisory Panel has given dicamba a class D classification (not classifiable as to human carcinogenicity). Animal tests with dicamba have not shown carcinogenic, teratogenic or other reproductive effects with the exception of slightly reduced fetal body weights and post implantation losses reported at the Maximum Tolerated Dose level. The available evidence on MCPA and triclopyr indicate that they do not pose a carcinogenic or mutagenic risk. Tirclopyr is not considered a teratogen, but no conclusions can be drawn about the teratogenic risk of MCPA.

3. FIRST AID MEASURES

EYE CONTACT:

Hold eyelids open and flush entire eye with a steady, gentle stream of water for 15 minutes. Get medical attention at once.

INHALATION:

Remove victim to fresh air. If not breathing, give artificial respiration preferably mouth to mouth. Get medical attention.

INGESTION:

Call a physician or Poison Control Center. Do not induce vomiting. Drink promptly a large quantity of milk, egg whites, gelatin solution, or if these are not available, drink large quantities of water. Avoid alcohol. Do not give anything by mouth to an unconscious person.

SKIN CONTACT:

Wash affected area with soap and water. If irritation persists, get medical attention.

NOTE TO PHYSICIAN:

Probable mucosal damage may contraindicate gastric lavage. If large amounts of the product were ingested, the stomach should be emptied by gastric intubation.

4. FIRE FIGHTING MEASURES

FLASH POINT (F):

N/A

FLASH POINT METHOD USED:

None- aqueous solution

EXTINGUISHING MEDIA:

Use CO2 or dry chemical for small fires and foam, water fog, or water stream for large fires. Use water spray to cool closed containers.

COMBUSTION PRODUCTS:

When heated to decomposition, hazardous products may include, but are not limited to: hydrogen chloride and nitrogen oxides.

SPECIAL FIRE FIGHTING PROCEDURES:

May produce toxic and noxious fumes under extreme fire conditions. Use positive pressure self-contained breathing apparatus and acid resistant protective clothing. Any water used to extinguish the fire should be contained by diking to prevent contamination of the public water system.

UNUSUAL FIRE & EXPLOSION HAZARDS:

Drums of product will burst from steam pressure under prolonged fire conditions.

See Section 13, REGULATORY INFORMATION, for NFPA ratings.

5. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS SPILLED OR RELEASED:

When cleaning large spills, wear the suggested safety equipment (see section 7). Surround with impervious material such as dirt to prevent run-off. Absorb product with an inert absorbent such as clay granules or wood shavings. Contain all affected material in a closed, labeled container for proper disposal.

6. HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Always use original container to store pesticides in a secured warehouse or storage building. Do not store near seeds, fertilizers, insecticides, or fungicides. Store at temperatures above 32 F. If allowed to freeze, remix before using. Freezing does not alter this product. Containers should be opened in well ventilated areas. Keep container tightly sealed when not in use. Do not stack cardboard cases more than two pallets high. Do not contaminate water, food, or feed by storage or disposal.

WORK HYGIENIC PRACTICE:

Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

7. EXPOSURE CONTROL/PERSONAL PROTECTION

RESPIRATORY PROTECTION:	Respiratory protection is not normally required. Use a NIOSH/MSHA approved respirator when directly exposed to mist.
VENTILATION:	Open ventilation. Reduce all mist with local exhaust.
PROTECTIVE GLOVES:	Rubber or chemical-resistant gloves
EYE PROTECTION:	Wear splash goggles or face shield when handling.
OTHER PROTECTIVE EQUIPMENT:	Long sleeved shirt, long pants, socks and shoes are recommended.

8. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR:	Dark liquid, slight ammonia odor
SOLUBILITY IN WATER:	100% in water
BOILING POINT (F)::	> 212
VAPOR PRESSURE (mm Hg @ 20 C):	Equal to water
SPECIFIC GRAVITY (H₂O = 1):	1.150
pH:	7.5 - 8.5
FREEZING POINT (F)::	32
POUNDS PER GALLON:	9.58

9. STABILITY AND REACTIVITY

STABILITY:	Stable
CONDITIONS TO AVOID:	Avoid heat conditions
INCOMPATIBILITY:	Strong oxidizers or acids
HAZARDOUS BYPRODUCTS:	None

HAZARDOUS POLYMERIZATION:

Will Not Occur

10. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE:

MCPA, Dicamba, and Triclopyr each have a relatively short field half-life of (on average) 20-60 days, 20 days, and 46 days, respectively. Each of the active ingredients in this product is biodegraded by soil microbes and aquatic microorganisms.

11. DISPOSAL CONSIDERATIONS

PRODUCT DISPOSAL:

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixtures, or rinsate is a violation of Federal law. If this product cannot be disposed of by use according to the label, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA regional office.

CONTAINER DISPOSAL:

Triple rinse (or equivalent) and offer for recycling, or puncture and dispose of in a sanitary landfill. Plastic containers are also disposable by incineration, or if allowed by State and local authorities, by burning. If burned, stay out of smoke.

12. TRANSPORTATION INFORMATION

DOT REGULATED CONTAINER SIZE: N/A

PROPER SHIPPING NAME: Compound, Weed Killing, Liquid, Not DOT Regulated

13. REGULATORY INFORMATION

SARA TITLE III; Section 311/312:

An immediate and delayed health hazard.

SARA TITLE III; Section 313- This product contains the following substances subject to the reporting requirements of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

Dimethylaminc of Dicamba CAS #: 2300-66-5
Triclopyr triethylammonium salt CAS #: 57213-69-1

REPORTABLE QUANTITY (RQ):

1000 lbs of dicamba or 2,631 gallons of Horsepower. For releases greater than the RQ, contact the National Response Center at (800) 424-8802.

HMIS INFORMATION	
HEALTH:	2
FLAMMABILITY:	1
REACTIVITY:	0
PROTECTIVE:	D

NFPA INFORMATION	
TOXICITY:	2
FIRE:	1
REACTIVITY:	0
SPECIAL:	N

The information given herein is to the best of our knowledge true and accurate. No warranty, however, expressed or implied, is made.