

Riverdale

425 West 194th Street
Glenwood, IL 60425

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

Information: (800) 345-3330

Date Issued: 12/29/99

Supersedes: 8/29/99

Product Code: B317R

MSDS Number: 317

MATERIAL SAFETY DATA SHEET:

Cool Power 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 TL</u>
Isooctyl (2-ethylhexyl) Ester of 2-Methyl-4-Chlorophenoxyacetic Acid	26544-20-7	56.1%	MCPA Ester	N/A	N/A
Butoxyethanol Ester of 3,5,6-Trichloro-2-Pyridinyloxyacetic Acid	57213-69-1	5.0%	Triclopyr	N/A	N/A
(3,6- Dichloro-o-anisic Acid)	1918-00-9	3.6%	Dicamba	N/A	N/A
Esters of Fatty Acids	Various	35.3%	Inert Ingredient	N/A	N/A
	Total	100.0%			

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: May cause transient eye irritation.

Skin: May cause skin irritation. Harmful if absorbed through the skin. Prolonged or repeated dermal exposure may cause effects similar to those caused by ingestion.

Ingestion: Moderate to low oral toxicity. May cause muscle weakness, nausea, diarrhea, abdominal pain, fall in blood pressure or convulsions under extreme exposure conditions. Can be fatal.

TOXICOLOGICAL DATA:

Acute Dermal LD50: 1.231 g/kg(male rats); 1.0g/kg(female rats)
Acute Oral LD50: 3.969g/kg(male rabbits); 3.535g/kg(female rabbits)
Acute Inhalation LC50: no mortality at >3.59 mg/l, the maximum concentration (rabbits)
Eye Irritation: irritation clearing in 7 days or less (rabbits)
Dermal Irritation: moderate irritation (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. Triclopyr 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 if irritation persists.

INHALATION: Remove victim to fresh air and apply respiration if indicated.

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. If vomiting occurs spontaneously, keep airway clean. Never give anything by mouth to an unconscious person.

SKIN CONTACT: Wash with plenty of soap and water. Get medical attention.

NOTE TO PHYSICIAN: This product is an organophosphate insecticide. If symptoms of cholinesterase inhibition are present, atropine sulfate by injection is antidotal. 2-PAM is also antidotal, and may be administered, but only in conjunction with atropine.

4. FIRE FIGHTING MEASURES

FLASH POINT (F)- >200

FLASH POINT METHOD USED: Tag Closed Cup

EXTINGUISHING MEDIA: Use dry chemical, CO₂, foam or sand/earth if available. Use water spray to cool closed containers.

COMBUSTION 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 AND EXPLOSION HAZARDS: When heated above the flash point this material emits flammable vapors which, when mixed with air, can burn or be explosive. Fine mist or spray may be flammable at temperatures below the flash point.

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. Treat contaminated area with detergent and water.

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. 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 / HYGENIC PRACTICES:

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

7. EXPOSURE CONTROL/PERSONAL PROTECTION

RESPIRATORY PROTECTION:	Wear a NIOSH/MSHA approved pesticide respirator when exposed to mist.
VENTILATION:	Open ventilation. Reduce all mist with local exhaust.
PROTECTIVE GLOVES:	Chemical-resistant (not rubber) gloves. (See Precautionary Statement on Product Label)
EYE PROTECTION:	Chemical splash goggles
OTHER PROTECTIVE EQUIPMENT:	Long sleeved shirt, long pants, socks, shoes and a neoprene protective apron are recommended

8. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR:	Amber liquid. typical of fatty esters
SOLUBILITY IN WATER:	100% emulsifiable (can be mixed) with water
BOILING POINT (F)-	N/D
VAPOR PRESSURE (mm Hg @ 20 C):	N/D
SPECIFIC GRAVITY (H2O=1):	1.025
pH:	N/D
FREEZING POINT (F)-	N/D
POUNDS PER GALLON:	8.54

9. STABILITY AND REACTIVITY

STABILITY:	Stable
CONDITIONS TO AVOID:	None determined
INCOMPATIBILITY:	Strong oxidizers such as hydrogen peroxide, bromine, and chromic acid.
HAZARDOUS BY PRODUCTS:	Carbon monoxide and carbon dioxide from burning.
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, 1-4 weeks, and 46 days, respectively. Each of the active ingredients in this product is biodegraded by soil microbes and aquatic microorganisms.

ECOTOXICITY:

Do not apply this product directly to water. The active ingredients may be harmful to waterfowl or fish. The active ingredients are non toxic to bees.

11. DISPOSAL CONSIDERATIONS

PRODUCT DISPOSAL:

If the product cannot be disposed of by use according to the label, it should be placed in a closed labeled container and disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL:

Triple rinse (or equivalent), adding rinsate to spray tank. Then 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: 220 gal, 260 gal

HAZARD CLASS: None

UN NUMBER: None

PACKING: None

GUIDE NUMBER: None

PROPER SHIPPING NAME: Cool Power Selective Herbicide

13. REGULATORY INFORMATION

SARA TITLE III; Section 311/312:

An immediate and delayed health hazard.

REPORTABLE QUANTITY (RQ):

1000 lbs of dicamba acid equivalent or approximately 3226 gallons of this product. For releases greater than the RQ, contact the National Response Center at (800) 424-8802.

SARA TITLE 111; Section 313- This product contains the following substances subject to the reporting requirements of the Superfund Amendments and Reauthorization Act of 1996 and 40 CFR Part 372:

Dicamba CAS #: 1918-00-9
 Triclopyr triethylammonium salt CAS#:57213-69-1

HMIS INFORMATION	
HEALTH:	1
FLAMMABILITY:	1
REACTIVITY:	0
PROTECTIVE:	C*

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

The information contained herein is based on the data available to us and is believed to be accurate. However, no warranties expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. We assume no responsibility for injuries from the use of the product described herein.

C* Safety glasses, gloves and synthetic apron.