

NFPA HAZARD RATING				U.S. TRANSPORT SUMMARY	
0	Least				
1	Slight	1	Health		
2	Moderate	1	Flammability		
3	High	1	Reactivity		
4	Severe				

Regulated for transport in quantities of 247 gallons or greater. (See Section 14 for additional information.)

SECTION 1: IDENTIFICATION	
Product Name:	Clarifier®
EPA Registration #:	7969-137-1381 Check product packaging to ensure EPA registration number on package matches the number on this Safety Data Sheet
Common Name:	Dicamba Herbicide
Chemical Description:	Diglycolamine salt of dicamba
Recommended Uses:	Agricultural Herbicide. See product label for complete list of recommended uses and use site.
Restrictions for Use:	See product label for information regarding restrictions on the use of this product
Manufactured For: WINFIELD SOLUTIONS, LLC P. O. Box 64589 St. Paul, MN 55164-0589	MEDICAL EMERGENCY TELEPHONE NUMBER: 1-877-424-7452 (24hrs) Non-Emergency Business Inquiries: 1-855-494-6343 Mon – Fri 8am – 5pm (Central Standard Time)
FOR CHEMICAL EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT, CALL: CHEMTREC 1-800-424-9300 (24 hours)	

SECTION 2: HAZARDS IDENTIFICATION		
THE FOLLOWING HAZARDS ARE IDENTIFIED ACCORDING TO OSHA HCS CLASSIFICATION (29 CFR 1910.1200). See Section 15 for FIFRA information.		
Eye Irritation Category 2B		
EMERGENCY OVERVIEW		
Appearance: Blue-green	Physical State: Liquid	Odor: Mild odor
SIGNAL WORD: WARNING		
HAZARD STATEMENT: Causes eye irritation.		
PRECAUTIONARY STATEMENTS:		
Prevention: Wash hands thoroughly with soap and water after handling.		
Response: If in eyes: Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.		
Storage: See Section 7 for storage information.		
Disposal: See Section 13 for disposal information.		

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS		
Ingredient	% (wt)	CAS Reg. #
Diglycolamine salt of dicamba* *Contains 39.4% Dicamba (3,6-dichloro-o-anisic acid), CAS No.1918-00-9	58.1%	104040-79-1
*Ingredients not specifically listed are non-hazardous and are considered to be confidential business information under 29 CFR 1910.1200(i). See Section 8 for exposure limits.		

SECTION 4: FIRST AID MEASURES	
Inhalation:	Remove person from contaminated area to fresh air and assist breathing as needed. Seek medical attention if irritation occurs.
Ingestion:	Seek medical attention or call a poison control center if you feel unwell. Do not induce vomiting unless told to do so by a Poison Control Center or doctor. Do not give anything by mouth to an unconscious person.
Eyes:	Flush eyes with clean water for at least 15 minutes. Lift eyelids to facilitate irrigation. If present, remove contact lenses after 5 minutes and continue rinsing. Seek medical attention if irritation persists.
Skin:	Remove contaminated clothing and wash before re-using them. Flush skin with water, and then wash with soap and water. Seek medical attention if skin becomes irritated.

SECTION 5: FIRE FIGHTING MEASURES	
Suitable Extinguishing Media:	Use foam, dry powder, carbon dioxide, water spray
Special Fire Fighting Procedures:	Wear NIOSH/MSHA approved self-contained breathing apparatus and full bunker gear. Dike area to prevent runoff and contamination of water sources. Dispose of fire control water later. Avoid breathing vapors; keep upwind.
Hazardous Combustion Products:	Thermal decomposition may include carbon monoxide, carbon dioxide, nitrogen oxides or sulfur oxides.
Unusual Fire and Explosion Hazards:	None known.

SECTION 6: ACCIDENTAL RELEASE MEASURES	
Personal Precautions:	Refer to Section 8 for personal protective equipment to be worn during containment and clean-up of a spill involving this product.
Environmental Precautions:	Do not release product into soil/subsoil or let it enter sewer or waterways.
Methods for Containment:	Contain spilled liquid by diking area with sand or earth.
Methods for Clean-up:	Cover contained spill with an inert absorbent material such as sand, vermiculite or other appropriate material. Vacuum, scoop or sweep up material and place in a container for disposal. Do not place spilled material back in original container. After decontamination, spill area may be washed with water. Collect wash water for approved disposal.
Other Information:	Spills of this product may require reporting under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) as the product contains dicamba with a reportable quantity (RQ) of 1,000 lbs. See Section 15 for additional information.

SECTION 7: HANDLING AND STORAGE	
Handling:	RECOMMENDATIONS ARE FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS. PESTICIDE APPLICATORS AND WORKERS must refer to the pesticide product label and Directions for Use attached to the product for Agricultural Use Requirements in accordance with the EPA Worker Protection Standard 40 CFR part 170. Ensure adequate ventilation. Avoid contact with eyes, skin and clothing. Do not breathe spray mists/vapors. Wear suitable personal protective clothing and equipment. Immediately clean up spills that occur during handling. Keep containers closed when not in use. Practice good hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics
Storage:	Store in cool, dry area away from children, feed and food products in an area away from incompatible substances. Protect packaging from physical damage. Protect from exposure to fire. Maintain product above minimum storage temperature.
Minimum Storage Temperature:	Protect from temperatures below 0°C (32°F). Protect from temperatures above 40°C (104°F). Changes in the properties of the product may occur if substance/product is stored below or above indicated temperatures.
Other Precautions:	Consult Federal, state and local laws and regulations pertaining to storage.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION			
Exposure Guidelines			
Component:	OSHA PEL	ACGIH TLV	NIOSH REL
No components have specific exposure limits.			
NOTE TO END USERS: PERSONAL PROTECTIVE EQUIPMENT (PPE) AND CLOTHING LISTED IN THIS SECTION IS FOR MANUFACTURING, COMMERCIAL BLENDING AND PACKAGING WORKERS. APPLICATORS AND HANDLERS SHOULD REFER TO THE PESTICIDE PRODUCT LABEL FOR PROPER PERSONAL PROTECTIVE EQUIPMENT (PPE) AND CLOTHING.			
Respiratory Protection: Wear respiratory protection if inadequate ventilation. Wear a NIOSH-certified (or equivalent) TC23C Chemical/Mechanical type filter system to remove a combination of particles, gas and vapors.			
Engineering Controls: Local Exhaust: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs or other specified exposure limits. Local exhaust ventilation is preferred.			
Protective Gloves: Wear chemical resistant gloves.			
Eye Protection: To avoid contact with eyes, wear chemical goggles or safety glasses and full-face shield. Contact lenses are not eye protective devices. An emergency eyewash or water supply should be readily accessible to the work area.			
Other Protective Clothing or Equipment: Wear long sleeve shirt, long pants and shoes plus socks to prevent prolonged or repeated skin exposure.			
Work/Hygienic Practices: Never eat, drink, nor use tobacco in work areas. Practice good hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.			

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES			
Physical State:	Liquid	Specific Gravity (H₂O=1):	1.23 (typical)
Vapor Pressure :	23.3 hPa @ 20°C <small>Information applies to the solvent</small>	Density (lbs/gallon):	10.26 lbs/gallon (typical)
Vapor Density (Air=1):	Not determined	Freezing Point:	Approximately <0°C (<32°F) <small>Information applies to the solvent</small>
Solubility in Water :	Soluble	Boiling Point/Range:	Approximately 100°C (212°F) <small>Information applies to the solvent</small>
Viscosity, Dynamic:	22.4 mPa.s (25.5°C)	pH (undiluted):	8.0
Appearance and odor:	Blue-green with mild odor	Flash Point:	>100°C (212°F)

SECTION 10: STABILITY AND REACTIVITY
Reactivity: None known.
Chemical Stability: Product is stable at ambient temperature and pressure, under normal storage and handling
Possibility of Hazardous Reactions: Will not occur.
Conditions to Avoid: Avoid all sources of ignition: heat, sparks, and open flame. Avoid prolonged storage. Avoid electro-static discharge. Avoid contamination. Avoid prolonged exposure to extreme heat. Avoid extreme temperatures.
Incompatible Materials: Strong acids, strong bases, strong oxidizing agents.
Hazardous Decomposition Products: None expected, if stored and handled as indicated. Possible thermal decomposition products in the event of exposure to heat or fire include: carbon monoxide, carbon dioxide, hydrogen chloride, nitrogen oxide, nitrogen dioxide, and hydrocarbons.

SECTION 11: TOXICOLOGICAL INFORMATION	
ACUTE TOXICITY	
Eye Effects:	Causes moderate but temporary irritation to the eyes. (rabbit)
Skin Effects:	May cause slight irritation to the skin. (rabbit); Slightly toxic after short term skin contact (LD50 _(rat) >2,000 mg/kg).; Sensitizing effects were not observed in animal studies;
Acute Inhalation Effects:	LC50 >5.3 mg/l at 4 hours (rats); Relatively non-toxic after short-term inhalation.
Acute Oral Effects:	LD50 >2,000 mg/kg (rats); Slightly toxic after single ingestion.
Pre-existing Conditions:	Individuals with pre-existing diseases of the respiratory system, skin and eyes may have increased susceptibility to excessive exposures.
Percent of product with unknown acute toxicity: 23% (Inhalation-vapor, Inhalation mist), 3% (oral, dermal)	

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SUBCHRONIC / CHRONIC TOXICITY

Specific Target Organ Toxicity: None known
Carcinogenicity: (Dicamba) Carcinogenic effect was not observed in long-term studies in rats and mice in which the substance was given by feed.

ACGIH	IARC	NTP
Not listed	Not listed	Not listed

ACGIH: American Conference of Governmental Industrial Hygienist

IARC: International Agency for Research on Cancer

NTP: National Toxicity Program

Mutagenicity: (Dicamba) No indication substance is a mutagenic.
Teratogenicity: (Dicamba) Causes developmental effects in animals at high, maternally toxic doses.
Reproductive Toxicity: (Dicamba) Results of animal studies gave no indication of a fertility impairing effect.

SECTION 12: ECOLOGICAL INFORMATION

ENVIRONMENTAL SUMMARY: The ecological data given are those of the active ingredient. Do not release untreated into natural waters. There is a high probability that the product is not acutely harmful to fish. There is a high probability that the product is not acutely harmful to aquatic invertebrates. Acutely toxic for aquatic plants.

ECOTOXICITY DATA:

Fish Acute and Prolonged Toxicity: Acute: *Oncorhynchus mykiss* LC50 (96 hr.) >100 mg/l
Aquatic Invertebrate Acute Toxicity: Acute: *Daphnia Magna* EC50 (48 hr., static) >100 mg/l
Aquatic Plant Toxicity: Not determined.
Bird Acute and Prolonged Toxicity: Bobwhite Quail LC50: 1,265 mg/kg
Honeybee Toxicity: Not determined

ENVIRONMENTAL EFFECTS:

Soil Absorption/Mobility: Not determined
Persistence and degradability: Not determined.
Bioaccumulative Potential: Not determined
Other adverse effects: None known.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste: Dispose of in accordance with applicable Federal, state and local laws and regulations.
Container: Triple rinse and recycle the container or dispose of in accordance with Federal, state and local laws and regulations. See pesticide product label for full instructions on disposal.
RCRA Characteristics: It is the responsibility of the individual disposing of this product to determine the RCRA classification and hazard status of the waste.

SECTION 14: TRANSPORT INFORMATION

DOT: Not regulated by U.S. Department of Transportation as a hazardous material in quantities less than 247 gallons.
(Ground) For packages greater than or equal to 247 gallons:
UN3082, Environmentally hazardous substance, liquid, n.o.s. (Dicamba), 9, PG, III

IMDG: Classification not determined.
(Sea)

IATA: Classification not determined.
(Air)

TDG: Classification not determined.
(Canada)

SECTION 15: REGULATORY INFORMATION						
<p>TSCA Inventory: This product is exempt from TSCA inventory listing requirements as it is solely for FIFRA regulated use.</p> <p>SARA Title III Information:</p> <p style="margin-left: 20px;">Section 302 - Extremely hazardous substances: None listed</p> <p style="margin-left: 20px;">Section 311/312 – Hazard Categories: Refer to SDS section 2 for GHS hazard classes applicable for this product.</p> <p style="margin-left: 20px;">Section 313 – The following chemicals are subject to the reporting requirements of Section 313 of Title III, Superfund Amendments and Reauthorization Act of 1986 and 40 CFR 372:</p> <p style="margin-left: 20px;">Dicamba (CAS #1918-00-9) 39.4%</p>						
<p>CERCLA – This product contains the following chemicals which have a reportable quantity (RQ) under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA):</p> <p style="margin-left: 20px;">Dicamba (CAS #1918-00-9) RQ = 1,000 lbs (reached with 247 gallons of product)</p>						
<p>EPA Registration Information: This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling 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.</p> <p style="margin-top: 10px;">CAUTION</p> <p style="margin-left: 20px;">Causes moderate eye irritation.</p> <p style="margin-left: 20px;">Harmful if swallowed or absorbed through skin.</p> <p style="margin-left: 20px;">Avoid contact with skin, eyes or clothing.</p>						
<p>California Proposition 65: This product does not contain any chemicals known to the state of California to cause cancer and/or reproductive harm.</p> <p>U.S. State Worker and Community Right-To-Know (RTK) Information (CT, IL, MA, MN, NH, NJ, PA, RI):</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; border-bottom: 1px solid black;">Chemical Name</th> <th style="text-align: left; border-bottom: 1px solid black;">CAS #</th> <th style="text-align: left; border-bottom: 1px solid black;">State(s)</th> </tr> </thead> <tbody> <tr> <td>Dicamba</td> <td>1918-00-9</td> <td>MA, NJ, PA, RI</td> </tr> </tbody> </table> <p>Canadian Domestic Substances List: Not determined. Product is not registered for sale in Canada.</p>	Chemical Name	CAS #	State(s)	Dicamba	1918-00-9	MA, NJ, PA, RI
Chemical Name	CAS #	State(s)				
Dicamba	1918-00-9	MA, NJ, PA, RI				
<p>WHMIS Classification: Not determined. Product is not registered for sale in Canada.</p>						

SECTION 16: OTHER
<p>Disclaimer: The information presented herein is based on available data from reliable sources and is correct to the best of WinField Solutions' knowledge. WinField Solutions, LLC makes no warranty, express nor implied, regarding the accuracy of the data or the results obtained from the use of this product. Nothing herein may be construed as recommending any practice or any product in violation of any law or regulations. The user is solely responsible for determining the suitability of any material or product for a specific purpose and for adopting any appropriate safety precautions. We disclaim all liability for injury or damage stemming from any improper use of the material or product described herein.</p> <p style="margin-top: 10px;">Revision Date: May 16, 2018 Supersedes document dated: February 21, 2018</p> <p>Sections Revised: All (New format)</p>