


NFPA HAZARD RATING				U.S. TRANSPORT SUMMARY	
0	Least				Regulated in quantities of 30 gallons or greater; see Section 14 for full information.
1	Slight	2	Health		
2	Moderate	0	Flammability		
3	High	0	Reactivity		
4	Severe				

SECTION 1: IDENTIFICATION	
Product Name: Brash® Herbicide EPA Registration #: 1381-202 Product ID/Unity #: 10000730, 10109664, 10116907, 60317441, 60317499 Common Name: Mixture of Dicamba and 2,4-D Chemical Description: Substituted benzoic acid (dicamba) and phenoxy (2,4-D) herbicide Recommended Uses: Agricultural Herbicide. See product label for complete list of uses and use sites. Restrictions for Use: See product label for information regarding restrictions on the use of this product.	MEDICAL EMERGENCY TELEPHONE NUMBER: 1-877-424-7452 (24hrs) Non-Emergency Business Inquiries: 1-855-494-6343 Mon – Fri 8am – 5pm (Central Standard Time)
Manufactured For: WINFIELD SOLUTIONS, LLC P. O. Box 64589 St. Paul, MN 55164-0589	
FOR EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT, CALL: CHEMTREC 1-800-424-9300 (24 hours)	

SECTION 2: HAZARDS IDENTIFICATION	
EMERGENCY OVERVIEW: Clear amber to light brown liquid with mild amine like odor. Corrosive and severe eye irritant. May release toxic fumes if burned.	
POTENTIAL HEALTH EFFECTS: Eyes: Corrosive and severe eye irritant. May cause permanent eye injury, including blindness. Skin: Contact may cause irritation. Prolonged or repeated exposure may lead to reddening of skin, rash, dermatitis, or other skin reactions. Harmful if absorbed through skin. Inhalation: Low inhalation toxicity. Inhalation of mist may cause slight irritation of the upper respiratory tract. Ingestion: May be harmful if swallowed. Preexisting Conditions: Preexisting respiratory and dermal conditions may be aggravated by exposure. Chronic Health Effects: None known	
Carcinogenicity	NTP: Not listed IARC: Not listed OSHA: Not listed
OSHA HCS 2012 CLASSIFICATION: Not determined	
SIGNAL WORD: DANGER	
HAZARD STATEMENTS: Not determined	
Percent of product with unknown toxicity: 0%	
PRECAUTIONARY STATEMENTS: Prevention: See Section 8 for personal protective equipment information. Response: See Section 4 for first aid information. Storage: See Section 7 for storage information. Disposal: See Section 13 for disposal information.	

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS		
Ingredient	% (wt)	CAS Reg. #
Dicamba DMA salt	12.4%	2300-66-5
2,4-D DMA salt	35.7%	2008-39-1
*Ingredients not specifically listed are non-hazardous and are considered to be confidential business information under 29 CFR 1910.1200(j).		
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 immediately for treatment advice. Do not induce vomiting unless instructed 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 immediately.
Skin:	Remove contaminated clothing and wash before re-using. Flush skin with water and then wash with soap and water. Seek medical attention if irritation persists.
NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.	

SECTION 5: FIRE FIGHTING MEASURES	
Suitable Extinguishing Media:	Water fog, water spray, foam, dry chemical, carbon dioxide (CO2)
Unsuitable Extinguishing Media:	Water jet
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:	Toxic gases may be formed in a fire situation: hydrogen chloride and oxides of nitrogen
Unusual Fire and Explosion Hazards:	Closed containers may explode from vapor expansion in high heat.

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:	Keep spilled product from entering sewers or waterways.
Methods for Containment:	Contain spilled product 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. Do not use combustible materials such as sawdust. Vacuum, scoop, or sweep up material and place in a container for disposal. Do not place spilled material back in original container.
Other Information:	Spills of this product may require reporting under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) as the product contains 2,4-D with a reportable quantity (RQ) of 100 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. 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 secured, cool, dry areas designated specifically for pesticides, away from children, feed and food products and sources of heat. Keep containers closed when not in use. Store at temperatures between 35°F and 100°F. See pesticide product label for additional storage information.
Minimum Storage Temperature:	35°F
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
2,4-D	10 mg/m ³	10 mg/m ³	
<p>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.</p> <p>Respiratory Protection: Where airborne exposure to concentrations greater than the above listed exposure limits is likely, use a NIOSH approved respirator with cartridges/canisters approved for pesticides and organic vapors.</p> <p>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.</p> <p>Protective Gloves: Wear chemical resistant gloves to prevent skin exposure. Eye Protection: 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 chemical resistant shoes plus socks to prevent skin exposure.</p> <p>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.</p>			

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES			
Physical State:	Liquid	Specific Gravity (H ₂ O=1):	1.13 – 1.19
Vapor Pressure (mm Hg):	18 mm Hg	Density (lbs/gallon):	9.43 – 9.93 lbs/gallon
Vapor Density (Air=1):	Not determined	Melting Point/Freezing Point:	Not determined
Solubility in Water (wt %):	Soluble	Boiling Point/Range:	Not determined
Viscosity:	Not determined	pH (1% dispersion):	7.5 – 9.0
Appearance and odor:	Clear amber to light brown liquid with mild amine like odor	Flash Point:	Non-combustible

SECTION 10: STABILITY AND REACTIVITY	
<p>Reactivity: None known</p> <p>Chemical Stability: Product is stable at ambient temperature and pressure, under normal storage and handling conditions.</p> <p>Possibility of Hazardous Reactions: Will not occur</p> <p>Conditions to Avoid: Avoid excessive heat</p> <p>Incompatible Materials: Oxidizing agents and acids</p> <p>Hazardous Decomposition Products: Thermal decomposition may release toxic gases such as hydrogen chloride</p>	

SECTION 11: TOXICOLOGICAL INFORMATION	
ACUTE TOXICITY	
Eye Effects:	Causes severe or corrosive damage. (rabbit)
Skin Effects:	Causes mild skin irritation (rabbit); LD50 >2,000 mg/kg (rat); Not a skin sensitizer
Acute Inhalation Effects:	LC50 >4.0 mg/L (rat)
Acute Oral Effects:	LD50 >1,000 mg/kg (rat)
Specific Target Organ Toxicity:	Non known
CHRONIC TOXICITY	
Chronic Effects:	None known
Carcinogenicity:	None known
Mutagenicity:	None known

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Teratogenicity:	None known
Reproductive Toxicity:	None known
POTENTIAL HEALTH EFFECTS:	
Eyes: Corrosive and severe eye irritant. May cause permanent eye injury, including blindness.	
Skin: Contact may cause irritation. Prolonged or repeated exposure may lead to reddening of skin, rash, dermatitis, or other skin reactions. Harmful if absorbed through skin.	
Inhalation: Low inhalation toxicity. Inhalation of mist may cause slight irritation of the upper respiratory tract.	
Ingestion: May be harmful if swallowed.	

SECTION 12: ECOLOGICAL INFORMATION	
ENVIRONMENTAL SUMMARY: This product is toxic to fish and aquatic invertebrates. This chemical has properties and characteristics associated with chemicals detected in groundwater. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination. Application around a cistern or well may result in contamination of drinking water or groundwater.	
ECOTOXICITY DATA:	
Fish Acute and Prolonged Toxicity:	Bluegill 96-hr LC50: 2,4-D acid = 524 mg/L; Dicamba acid = 135 mg/L Rainbow Trout 96-hr LC50: 2,4-D acid = 250 mg/L; Dicamba acid = 135 mg/L
Aquatic Invertebrate Acute Toxicity:	Not available
Aquatic Plant Toxicity:	Not available
Bird Acute and Prolonged Toxicity:	Bobwhite Quail oral LD50: 2,4-D acid = 500 mg/kg; Dicamba acid = unknown Mallard Duck oral LD50: 2,4-D acid = unknown; Dicamba acid = 2,000 mg/kg Mallard Duck 8 day Dietary LC50: 2,4-D acid >5,500 mg/kg
Honeybee Toxicity:	Non-toxic
ENVIRONMENTAL EFFECTS:	
Soil Absorption/Mobility:	Not available
Persistence and degradability:	Not available
Bioaccumulative Potential:	Not available
Other adverse effects:	Not available

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: (Ground)	This product is not regulated by the U.S. DOT as a hazardous material for ground shipment in quantities of less than 30 gallons. For quantities of 30 gallons or greater: UN3082, Environmentally hazardous substance, liquid, n.o.s. (2,4-D salt), 9, PG III, RQ
IMDG: (Sea)	Not determined
IATA: (Air)	Not determined
TDG: (Canada)	Not determined

SECTION 15: REGULATORY INFORMATION

TSCA Inventory: This product is exempt from TSCA inventory listing requirements as it is solely for FIFRA regulated use.

SARA Title III Information:

Section 302 - Extremely hazardous substances: None listed

Section 311/312 – Hazard Categories: Immediate (Acute)

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:

Dicamba and 2,4-D acid

CERCLA - This product contains the following chemicals which have a reportable quantity (RQ) under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA):

2,4-D has an RQ of 100 lbs reached with approximately 30 gallons of product

Dicamba has an RQ of 1000 lbs reached with approximately 1,000 gallons of product.

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:

DANGER

Corrosive.

Causes irreversible eye damage.

Do not get in eyes or on clothing.

Harmful if swallowed or absorbed through skin.

Avoid contact with skin.

California Proposition 65: This product does not contain any chemicals known to the state of California to cause cancer and/or reproductive harm.

U.S. State Worker and Community Right-To-Know (RTK) Information (CT, IL, MA, MN, NH, NJ, PA, RI):

Chemical Name

CAS #

State(s)

None listed

Canadian Domestic Substances List: Not determined

WHMIS Classification: This product is not approved for use in Canada. WHMIS classification is not determined.

SECTION 16: OTHER

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.

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