

SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: US - OSHA Hazard Communication Standard (29 CFR 1910.1200)

Issuing Date 17-Oct-2022	Revision Date 25-Apr-2024	Revision Number 2
1. Identification		
Product identifier		
Product Name	Willowood Metribuzin 75DF	
Other means of identification		
EPA Reg. No.	87290-79	
Synonyms	None	
Recommended use of the chemica	I and restrictions on use	
Recommended use	Herbicide	
Restrictions on use	Use only as directed on product label	
Details of the supplier of the safety	y data sheet	
Supplier Address Generic Crop Science, LLC 1887 Whitney Mesa Drive #9740 Henderson, NV 89014-2069 1-844-200-FARM (3276)		
E-mail	regulatory@farmersbusinessnetwork.com	
Emergency telephone number	For Emergency Medical Assistance (Human or Animal) co Poison Control at 866-767-5040.	ontact Rocky Mountain
	For Chemical Emergency Assistance (Spill, Leak, Fire or CHEMTREC at 800-424-9300 (North America) or 703-52	

2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Acute toxicity - Oral	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Serious eye damage/eye irritation	Category 1

Hazards not otherwise classified (HNOC)

Not applicable.

Label elements

Danger

Hazard statements

Harmful if swallowed. Harmful if inhaled. Causes serious eye damage.



Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid breathing dust. Use only outdoors or in a well-ventilated area. Wear eye protection/ face protection.

Precautionary Statements - Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a doctor.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Call a doctor if you feel unwell.
IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.
Rinse mouth.

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant.

Other information

Causes mild skin irritation. Very toxic to aquatic life with long lasting effects. Very toxic to aquatic life.

Unknown acute toxicity

3 % of the mixture consists of ingredient(s) of unknown acute oral toxicity 19.6675 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

3. Composition/information on ingredients

Substance

Not applicable.

<u>Mixture</u>

Chemical name	CAS No	Weight-%	Trade secret
Metribuzin	21087-64-9	70 - 80	*
Kaolin	1332-58-7	5 - 10	*
AlkyInaphthalene sulfonate, sodium salt	-	1 - 5	*
Sodium alkylnaphthalenesulfonate, formaldehyde condensate	-	1 - 5	*
Silica, amorphous, precipitated and gel	112926-00-8	1 - 5	*
Sodium dioctyl sulphosuccinate	577-11-7	0.5 - 1	*

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. First-aid measures

Description of first aid measures

General advice	Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.
Inhalation	Remove to fresh air. Get medical attention immediately if symptoms occur. If breathing has stopped, give artificial respiration. Get medical attention immediately. If symptoms persist, call a physician.
Eye contact	Get immediate medical attention. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area.
Skin contact	Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.
Ingestion	Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Get medical attention.
Self-protection of the first aider	Avoid contact with skin, eyes or clothing. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid breathing dust/fume/gas/mist/vapors/spray. Use personal protective equipment as required. See section 8 for more information.
Most important symptoms and effe	ects, both acute and delayed
Symptoms	Burning sensation. Prolonged contact may cause redness and irritation. Coughing and/ or wheezing. Difficulty in breathing.
Indication of any immediate medicate	al attention and special treatment needed
Note to physicians	Treat symptomatically.
5. Fire-fighting measures	
Suitable Extinguishing Media	Dry chemical, CO2, water spray or regular foam.
Unsuitable extinguishing media	None known based on information supplied.
Specific hazards arising from the chemical	Thermal decomposition can lead to release of irritating and toxic gases and vapors.
Explosion data Sensitivity to mechanical impac Sensitivity to static discharge	ct None. None.
Special protective equipment and precautions for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear Use personal protection equipment.
6. Accidental release mea	sures
Personal precautions, protective e	quipment and emergency procedures
Personal precautions	Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Ensure adequate ventilation. Avoid generation of dust. Avoid breathing dust.
Other information	Refer to protective measures listed in Sections 7 and 8.
Methods and material for containm	ent and cleaning up
Methods for containment	Prevent further leakage or spillage if safe to do so.

Methods for cleaning up

Sweep up and shovel into suitable containers for disposal.

7. Handling and storage

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Avoid breathing dust. Avoid generation of dust. Ensure adequate ventilation.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children.

8. Exposure controls/personal protection

Control parameters

Exposure Limits

The following ingredients are the only ingredients of the product above the cut-off level (or level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other recommended limit. At this time, the other relevant constituents have no known exposure limits from the sources listed here.

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Metribuzin	TWA: 5 mg/m ³	(vacated) TWA: 5 mg/m ³	TWA: 5 mg/m ³
21087-64-9			_
Kaolin	TWA: 2 mg/m ³ particulate	TWA: 15 mg/m ³ total dust	TWA: 10 mg/m ³ total dust
1332-58-7	matter containing no asbestos	TWA: 5 mg/m ³ respirable	TWA: 5 mg/m ³ respirable
	and <1% crystalline silica,	fraction	dust
	respirable particulate matter	(vacated) TWA: 10 mg/m ³	
		total dust	
		(vacated) TWA: 5 mg/m ³	
		respirable fraction	
Silica, amorphous, precipitated and gel	-	TWA: 20 mppcf	-
112926-00-8		: (80)/(% SiO2) mg/m ³	
		TWA	
		(vacated) TWA: 6 mg/m ³	
		: (80)/(% SiO2) mg/m ³ TWA	

Biological occupational exposure limits

Appropriate engineering controls

Engineering controls	Showers	
	Eyewash stations	
	Ventilation systems.	

Individual protection measures, such as personal protective equipment

Eye/face protection	Tight sealing safety goggles.
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Hand protection Wear suitable gloves.

Skin and body protection Wear suitable protective clothing.

Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
General hygiene considerations	Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Avoid breathing dust/fume/gas/mist/vapors/spray.

9. Physical and chemical properties

Information on basic physical and o	hemical properties	
Appearance	Light brown granules	
Physical state	Solid	
Color	Light brown	
Odor	Moderately bitter	
Odor threshold	No data available	
Property	<u>Values</u>	Remarks • Method
рН	7.85	1% dispersion
Melting point / freezing point		No data available
Initial boiling point and boiling rang	le	No data available
Flash point		No data available
Evaporation rate		No data available
Flammability		No data available
Flammability Limit in Air		N I I I I I I I I I I
Upper flammability or explosive		No data available
Lower flammability or explosive	limits	No data available
Vapor pressure		No data available
Vapor density		No data available
Relative density		No data available
Water solubility		No data available
Solubility(ies)		No data available
Partition coefficient		No data available
Autoignition temperature		No data available
Decomposition temperature		No data available
Kinematic viscosity		No data available
Dynamic viscosity		No data available
Other information		
Explosive properties	No information available	
Oxidizing properties	None	
Softening point	No information available	
Molecular weight	No information available	
VOC content	No information available	
Liquid Density	No information available	
Bulk density	tap density: 0.590 g/cm ³	
10. Stability and reactivity		
Reactivity	None under normal use conditions.	
Chamical stability	Stable under normal conditions	
Chemical stability	Stable under normal conditions.	
Possibility of hazardous reactions	None under normal processing.	
Conditions to avoid	Incompatible materials. Dust formation.	

Incompatible materials Strong oxidizing agents.

Hazardous decomposition products None known based on information supplied.

11. Toxicological information

Information on likely routes of exposure

Product Information	
Inhalation	Specific test data for the substance or mixture is not available. Harmful by inhalation. (based on components).
Eye contact	Specific test data for the substance or mixture is not available. Causes serious eye damage. May cause irreversible damage to eyes.
Skin contact	Specific test data for the substance or mixture is not available. May cause irritation. Causes mild skin irritation.
Ingestion	Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Harmful if swallowed. (based on components).
Symptoms related to the physical,	chemical and toxicological characteristics
Symptoms	Redness. Burning. May cause blindness. Prolonged contact may cause redness and irritation. Coughing and/ or wheezing.
Acute toxicity	
Numerical measures of toxicity	
The following values are calculated ATEmix (oral) ATEmix (inhalation-dust/mist)	d based on chapter 3.1 of the GHS document: 640.10 mg/kg 2.1268 mg/l

Unknown acute toxicity

3 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

19.6675 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Metribuzin 21087-64-9	= 2020 mg/kg (Rat)	> 5000 mg/kg (rat)	> 2.045 mg/L (Rat)4 h
Kaolin 1332-58-7	> 5000 mg/kg (Rat)	> 5000 mg/kg (Rat)	-
Alkylnaphthalene sulfonate, sodium salt -	> 2000 mg/kg(Rat)	-	-
Sodium dioctyl sulphosuccinate 577-11-7	= 3080 mg/kg(Rat)	> 10000 mg/kg (Rabbit)	-

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	Classification based on data available for ingredients. Causes mild skin irritation.
Serious eye damage/eye irritation	Classification based on data available for ingredients. Causes burns. Causes serious eye damage.
Respiratory or skin sensitization	No information available.

Germ cell mutagenicity No information available.

No information available.

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Silica, amorphous, precipitated and	-	Group 3	-	-
gel				
112926-00-8				

Legend

IARC (International Agency for Research on Cancer)

Group 3 - Not Classifiable as to Carcinogenicity in Humans

Reproductive toxicity	No information available.		
STOT - single exposure	No information available.		
STOT - repeated exposure	No information available.		
Target organ effects	Liver. Respiratory system. Central nervous system. Thyroid. Gastrointestinal tract (GI).		
Aspiration hazard	No information available.		
Other adverse effects	No information available.		
Interactive effects	No information available.		

12. Ecological information

Ecotoxicity

Very toxic to aquatic life with long lasting effects.

				,
Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
Sodium dioctyl sulphosuccinate 577-11-7	-	LC50: 20 - 40mg/L (96h, Oncorhynchus mykiss) LC50: <24mg/L (96h, Oncorhynchus mykiss) LC50: =37mg/L (96h, Lepomis macrochirus)	microorganisms -	EC50: =36mg/L (48h, Daphnia magna)
Persistence and degradability	degradability No information available.			
Bioaccumulation	No information a	No information available.		
Other adverse effects	No information a	No information available.		
13. Disposal considerations				
Waste treatment methods				
Waste from residues/unused products	-	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.		
Contaminated packaging	Do not reuse em	Do not reuse empty containers.		
14. Transport information				
DOT	Not regulated	Not regulated		

IATA	Not regulated in quantities not to exceed 5 kilograms per individual container.
ID number Proper shipping name Hazard Class(es) Packing group Hazard Label	UN3077 Environmentally Hazardous Substance, Solid, N.O.S. (Metribuzin) 9 III Class 9, Environmentally Hazardous
IMDG	Not regulated in quantities not to exceed 5 kilograms per individual container.
ID number Proper shipping name Hazard Class(es) Packing group Hazard Label Marine Pollutant/ Environmentally Hazardous Substance	UN3077 Environmentally Hazardous Substance, Solid, N.O.S. (Metribuzin) 9 III Class 9, Environmentally Hazardous YES

15. Regulatory information
International Inventories_
Contact supplier for inventory compliance status

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical name	SARA 313 - Threshold Values %
Metribuzin - 21087-64-9	1.0

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals:

Chemical name	California Proposition 65
Formaldehyde - 50-00-0	Carcinogen
Naphthalene - 91-20-3	Carcinogen

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Metribuzin 21087-64-9	Х	X	X
Kaolin 1332-58-7	Х	Х	X
Silica, amorphous, precipitated and gel 112926-00-8	Х	Х	X
Sodium sulfate 7757-82-6	-	Х	X
Formaldehyde 50-00-0	Х	Х	X
Naphthalene 91-20-3	Х	Х	X

U.S. EPA Label Information

EPA Pesticide Registration Number 87290-79

16. Other information

NFPA HMIS	Health hazards 3 Health hazards 3	Flammability 0 Flammability 0	Instability 0 Physical hazards 0	Special hazards - Personal protection X	
Key or legend to	abbreviations and acronyms	used in the safety data s	heet		
Legend Section TWA Ceiling	8: EXPOSURE CONTROLS/PE TWA (time-weighted average) Maximum limit value		STEL (Short Term Skin designation	n Exposure Limit)	
Agency for Toxic S U.S. Environmenta European Food Sa EPA (Environmenta Acute Exposure G U.S. Environmenta U.S. Environmenta Food Research Jo Hazardous Substa International Unifo Japan GHS Classi Australia National NIOSH (National I National Library of National Library of National Toxicolog New Zealand's Ch Organization for E	Ince Database rm Chemical Information Datab ification Industrial Chemicals Notificatior nstitute for Occupational Safety Medicine's ChemID Plus (NLM Medicine's PubMed database (ry (ATSDR) v Database secticide, Fungicide, and F uction Volume Chemicals ase (IUCLID) n and Assessment Schem and Health) CIP) (NLM PUBMED) nation Database (CCID) elopment Environment, He	Rodenticide Act e (NICNAS) ealth, and Safety Publicatior		

Organization for Economic Co-operation and Development Screening Information Data Set World Health Organization

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Revision Note Disclaimer	Change to Email, Emergency Telephone Number and Section 14

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet