

# 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 07-Jun-2021 Revision Date 31-Jan-2024 Revision Number 2

# 1. Identification

**Product identifier** 

Product Name Willowood Sulfen Met

Other means of identification

**EPA Reg. No.** 87290-70

Synonyms Sulfentrazone + Metribuzin

Recommended use of the chemical and restrictions on use

Recommended use Herbicide

**Restrictions on use**Use only as directed on product labels

Details of the supplier of the safety data sheet

# **Supplier Address**

Generic Crop Science, LLC. 1887 Whitney Mesa Drive #9740 Henderson, NV 89014-2069 Tel: 844-200-FARM (3276)

**E-mail** regulatory@farmersbusinessnetwork.com

Emergency telephone number

For Emergency Medical Assistance (Human or Animal) contact Rocky Mountain

Poison Control at 866-767-5040.

For Chemical Emergency Assistance (Spill, Leak, Fire or Accident contact CHEMTREC at 800-424-9300 (North America) or 703-527-3887 (International).

# 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
Serious eye damage/eye irritation	Category 2A
Specific target organ toxicity (repeated exposure)	Category 2

## Hazards not otherwise classified (HNOC)

Not applicable.

## Label elements

# Warning

## **Hazard statements**

May form combustible dust concentrations in air.

Harmful if swallowed.

Causes serious eye irritation.

May cause damage to organs through prolonged or repeated exposure.



## **Precautionary Statements - Prevention**

Do not eat, drink or smoke when using this product Wash face, hands and any exposed skin thoroughly after handling Wear eye protection/ face protection Do not breathe dust/fume/gas/mist/vapors/spray

## **Precautionary Statements - Response**

Get medical advice/attention if you feel unwell

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

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**

10.1004 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

# 3. Composition/information on ingredients

# Substance

Not applicable.

# <u>Mixture</u>

# **Synonyms**

Sulfentrazone + Metribuzin

Chemical name	CAS No	Weight-%	Trade secret
Kaolin	1332-58-7	30-40	*
Metribuzin	21087-64-9	20-30	*
Sulfentrazone	122836-35-5	10-20	*
Ammonium sulfate	7783-20-2	5-10	*
Lignosulfonic acid, sodium salt, sulfomethylated	68512-34-5	1-5	*
Lignin, alkali, reaction products with formaldehyde and sodium bisulfite	68512-35-6	1-5	*
Naphthalenesulfonic acids, branched and linear Bu derivs., sodium salts	91078-64-7	1-5	*
Sodium carbonate	497-19-8	1-5	*
Docusate sodium	577-11-7	<0.5	*

\*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.

**Inhalation** Remove to fresh air.

Eye contact 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. Get medical attention if irritation develops and

persists.

**Skin contact** Wash skin with soap and water.

**Ingestion** Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth

to an unconscious person. Do NOT induce vomiting. Call a physician.

**Self-protection of the first aider** Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

Most important symptoms and effects, both acute and delayed

Symptoms May cause redness and tearing of the eyes. Burning sensation. Prolonged contact may

cause redness and irritation.

Indication of any immediate medical attention and special treatment needed

5. Fire-fighting measures

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the

surrounding environment.

**Unsuitable extinguishing media** None known based on information supplied.

Specific hazards arising from the

chemical

None known based on information supplied.

**Explosion data** 

Sensitivity to mechanical impact None. Sensitivity to static discharge 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 measures

## Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid contact with skin,

eyes or clothing. Use personal protective equipment as required.

**Other information** Refer to protective measures listed in Sections 7 and 8.

#### Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Pick up and transfer to properly labeled containers.

# 7. Handling and storage

# Precautions for safe handling

Advice on safe handling Ensure adequate ventilation. 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.

## Conditions for safe storage, including any incompatibilities

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

well-ventilated place. Store in fluorinated HDPE bottles at ambient temperature.

# 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
Kaolin	TWA: 2 mg/m³ particulate	TWA: 15 mg/m³ total dust	TWA: 10 mg/m³ total dust
1332-58-7	matter containing no asbestos and <1% crystalline silica,	TWA: 5 mg/m³ respirable fraction	TWA: 5 mg/m³ respirable dust
	respirable particulate matter	(vacated) TWA: 10 mg/m <sup>3</sup>	dusi
	respirable particulate matter	total dust	
		(vacated) TWA: 5 mg/m <sup>3</sup>	
		respirable fraction	
Metribuzin	TWA: 5 mg/m <sup>3</sup>	(vacated) TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>
21087-64-9			

## Biological occupational exposure limits

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

## **Appropriate engineering controls**

Engineering controls Showers

Eyewash stations Ventilation systems.

## Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Hand protection** Wear suitable gloves.

**Skin and body protection** Wear suitable protective clothing.

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.

# 9. Physical and chemical properties

# Information on basic physical and chemical properties

**Appearance** Dark brown granules

Physical state Solid Dark brown
Odor Strong bitter
Odor threshold No data available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

pH 6.9

Melting point / freezing point No data available

Initial boiling point and boiling rangeNo data availableFlash pointNo data availableEvaporation rateNo data availableFlammabilityNo data available

Flammability Limit in Air

Upper flammability or explosive limitsNo data availableLower flammability or explosive limitsNo data availableVapor pressureNo data availableVapor densityNo data available

Relative density 0.675 g/cm<sup>3</sup>

Water solubility
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

Oxidizing properties

No information available

# 10. Stability and reactivity

**Reactivity** None under normal use conditions.

Chemical stability Stable under normal conditions.

Possibility of hazardous reactions None under normal processing.

Conditions to avoid Incompatible materials.

Incompatible materials Incompatible with 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. May cause irritation of

respiratory tract.

**Eye contact** Specific test data for the substance or mixture is not available. Causes serious eye irritation.

(based on components). May cause redness, itching, and pain.

**Skin contact** Specific test data for the substance or mixture is not available. Prolonged contact may

cause redness and 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 May cause redness and tearing of the eyes. Prolonged contact may cause redness and

irritation.

#### Acute toxicity

## **Numerical measures of toxicity**

# The following values are calculated based on chapter 3.1 of the GHS document:

**ATEmix (oral)** 1,375.90 mg/kg

## Unknown acute toxicity

10.1004 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

**Component Information** 

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Kaolin 1332-58-7	> 5000 mg/kg(Rat)	> 5000 mg/kg(Rat)	-
Metribuzin 21087-64-9	= 2020 mg/kg(Rat)	> 5000 mg/kg (rat)	> 2.045 mg/L (Rat)4 h
Sulfentrazone 122836-35-5	> 2855 mg/kg(Rat)	-	> 4.14 mg/L (Rat)4 h
Ammonium sulfate 7783-20-2	= 2840 mg/kg(Rat)	> 2000 mg/kg(Rat)	-
Naphthalenesulfonic acids, branched and linear Bu derivs., sodium salts 91078-64-7	= 1790 mg/kg(Rat)	> 500 mg/kg(Rat)	= 3.82 mg/L (Rat)4 h
Sodium carbonate 497-19-8	= 4090 mg/kg(Rat)	> 2000 mg/kg(Rabbit)	= 2300 mg/m³(Rat) 2 h
Docusate sodium 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. May cause skin irritation.

Serious eye damage/eye irritation Classification based on data available for ingredients. Causes serious eye irritation.

**Respiratory or skin sensitization** No information available.

Germ cell mutagenicity No information available.

**Carcinogenicity** No information available.

**Reproductive toxicity** No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure** May cause damage to organs through prolonged or repeated exposure.

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
			microorganisms	
Ammonium sulfate 7783-20-2	-	LC50: 123 - 128mg/L (96h, Poecilia reticulata) LC50: 32.2 - 41.9mg/L (96h, Oncorhynchus mykiss) LC50: 5.2 - 8.2mg/L (96h, Oncorhynchus mykiss) LC50: =126mg/L (96h, Poecilia reticulata) LC50: =18mg/L (96h, Cyprinus carpio) LC50: =250mg/L (96h, Brachydanio rerio) LC50: =420mg/L (96h, Brachydanio rerio) LC50: =480mg/L (96h, Brachydanio rerio) LC50: >100mg/L (96h, Pimephales promelas)		LC50: =14mg/L (48h, Daphnia magna)
Sodium carbonate 497-19-8	-	LC50: 310 - 1220mg/L (96h, Pimephales promelas) LC50: =300mg/L (96h, Lepomis macrochirus)	-	EC50: =265mg/L (48h, Daphnia magna)
Docusate sodium 577-11-7	-	LC50: 20 - 40mg/L (96h, Oncorhynchus mykiss) LC50: <24mg/L (96h, Oncorhynchus mykiss) LC50: =37mg/L (96h, Lepomis macrochirus)	-	EC50: =36mg/L (48h, Daphnia magna)

Persistence and degradability No information available.

#### **Bioaccumulation**

**Component Information** 

Chemical name	Partition coefficient
Ammonium sulfate 7783-20-2	-5.1

Other adverse effects 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 empty containers.

California Hazardous Waste Status This product contains one or more substances that are listed with the State of California as

a hazardous waste.

# 14. Transport information

**DOT** Not regulated

<u>IATA</u> Not regulated in quantities not to exceed 5 kg per individual container.

ID number UN3077

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Metribuzin, Sulfentrazone)

Hazard Class(es) 9
Packing group III

Hazard Label Class 9, Environmentally Hazardous

**IMDG** Not regulated in quantities not to exceed 5 kg per individual container.

ID number UN3077

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Metribuzin, Sulfentrazone)

Hazard Class(es) 9
Packing group III

Hazard Label Class 9, Environmentally Hazardous

Marine Pollutant/Environmentally YES

Hazardous Substance

# 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	
Ammonium sulfate - 7783-20-2	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 does not contain any Proposition 65 chemicals.

## U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Kaolin 1332-58-7	X	X	X
Metribuzin 21087-64-9	X	X	X
Ammonium sulfate 7783-20-2	-	X	Х
Glycerin 56-81-5	X	X	Х

## U.S. EPA Label Information

**EPA Pesticide Registration Number** 87290-70

# 16. Other information

NFPAHealth hazards2Flammability1Instability0Special hazards-HMISHealth hazards2\*Flammability0Physical hazards0Personal protectionX

# Key or legend to abbreviations and acronyms used in the safety data sheet

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value \* Skin designation

# Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications

Organization for Economic Co-operation and Development High Production Volume Chemicals Program

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

World Health Organization

(M)SDS Number UL-GCS-019

 Issuing Date
 07-Jun-2021

 Revision Date
 31-Jan-2024

**Revision Note** Revise emergency telephone number.

**Disclaimer** 

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**