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Revision Number 0

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Product identifier

Product Name Dimetric® Liquid

Other means of identification

EPA Reg. No. 1381-259

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use Agricultural Herbicide. See product label for complete list of uses and use sites.

Uses advised against See product label for information regarding restrictions on the use of this product.

Supplier's details

Supplier Address

Winfield Solutions, LLC.
P.O. Box 64589
St. Paul, MN 55164-0589

For Non-Emergency Business Inquiries:
1-855-494-6343 Mon-Fri, 8am-5pm CST

Emergency telephone numbers

Emergency Telephone Numbers FOR MEDICAL EMERGENCY: 1-877-424-7452 (24hrs)

FOR CHEMICAL EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT, CALL:
CHEMTREC 1-800-424-9300 (24 hours)

2. HAZARDS IDENTIFICATION

Classification

This chemical is not considered hazardous according to the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200).

GHS Label elements, including precautionary statements

Not classified

Emergency Overview

Signal Word

- None

Hazard Statements

- None

The product contains no substances which at their given concentration are considered to be hazardous to health

Appearance Off-white, Opaque

Physical State Liquid

Odor Bitter

Precautionary Statements**Prevention**

- None

General Advice

- None

Storage

- None

Disposal

- None

Hazard Not Otherwise Classified (HNOC)

Not applicable.

Other information

May be harmful if swallowed.

Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight % (wt)	Trade secret
Metribuzin	21087-64-9	33%	No

4. FIRST AID MEASURES**Description of necessary first-aid measures****Eye Contact**

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 occurs.

Skin Contact

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.

Inhalation

Remove person from contaminated area to fresh air and assist breathing as needed. Seek medical attention if irritation occurs.

Ingestion

Clean mouth with water and afterwards drink plenty of water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Consult a physician.

Indication of immediate medical attention and special treatment needed, if necessary**Notes to Physician**

Treat patient symptomatically. The compound does not cause any definite symptoms that would be diagnostic. Poisoning is accompanied by breathing difficulties and sedation.

5. FIRE-FIGHTING MEASURES**Suitable Extinguishing Media**

Dry chemical, carbon dioxide (CO₂), water spray or foam. Do not scatter spilled material with high pressure water streams.

Specific Hazards Arising from the Chemical

During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Carbon monoxide. Carbon dioxide. Runoff may pollute waterways.

Explosion Data

Sensitivity to Mechanical Impact

None.

Sensitivity to Static Discharge

None.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid contact with skin, eyes and clothing. Use personal protective equipment as required. Refer to Section 8 for personal protective equipment.

Environmental Precautions

Environmental Precautions Dispose of contents/container to an approved waste disposal facility. Collect spillage. See Section 12 for additional Ecological Information. Prevent further leakage or spillage if safe to do so. Do not allow spilled product to enter sewers or waterways. Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so. Dike to collect large liquid spills.

Methods for Cleaning Up Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13). Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

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.

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Use personal protective equipment as required. Remove and wash contaminated clothing separately before re-use.

Conditions for safe storage, including any incompatibilities

Storage Store away from children, food or feed products. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers. Keep away from incompatible materials. Protect from freezing. **See pesticide product label for additional storage information.**

Incompatible Products Strong bases. Do not mix or allow coming in contact with oxidizing agents; hazardous chemical reaction may occur.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Metribuzin 21087-64-9	TWA: 5 mg/m ³	(vacated) TWA: 5 mg/m ³	TWA: 5 mg/m ³

Engineering Measures Showers
Eyewash stations
Ventilation systems

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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.

Individual protection measures, such as personal protective equipment

Eye/Face Protection	Safety glasses with side-shields.
Skin and Body Protection	Lightweight protective clothing. Impervious gloves.
Respiratory Protection	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
Hygiene Measures	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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Liquid	Appearance	Off-white, Opaque
Odor	Bitter	Odor Threshold	No information available

<u>Property</u>	<u>Values</u>
pH	6.87
Melting Point/Range	No data available
Boiling Point/Boiling Range	No data available
Flash Point	> 230 °F
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Flammability Limits in Air	
upper flammability limit	No data available
lower flammability limit	No data available
Vapor Pressure	No data available
Vapor Density	No data available
Specific Gravity	1.09 g/cm ³ @ 25°C
Water Solubility	No data available
Solubility in other solvents	No data available
Partition coefficient: n-octanol/water	No data available
Autoignition Temperature	No data available
Decomposition Temperature	No data available
Viscosity	No data available

Flammable Properties	Not flammable
Explosive Properties	No data available
Oxidizing Properties	No data available

Other information

VOC Content (%)	No data available
Weight per Gallon (lbs)	9.1 pounds/gallon @25°C

10. STABILITY AND REACTIVITY

Reactivity

Do not mix or allow coming in contact with oxidizing agents; hazardous chemical reaction may occur.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing and conditions of use.

Hazardous Polymerization

Hazardous polymerization does not occur.

Conditions to avoid

Do not freeze.

Incompatible materials

Strong bases. Do not mix or allow coming in contact with oxidizing agents; hazardous chemical reaction may occur.

Hazardous decomposition products

Thermal decomposition can lead to the release of gases and vapors with may be toxic and/or irritating.

11. TOXICOLOGICAL INFORMATION

Acute toxicity- Formulation Product

Acute Oral Effects:	LD ₅₀ (Rat) = 5,000 mg/kg. May be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Acute Inhalation Effects:	LC ₅₀ (Rat) = >5.10 mg/L. No inhalation hazard is anticipated.
Skin Effects:	LD ₅₀ Dermal (Rat) > 5,050 mg/kg. Non-irritating based on laboratory study data.
Eye Effects:	Practically non-irritating based on laboratory study data.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
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Delayed and immediate effects and also chronic effects from short and long term exposure

Sensitization	Not expected to be a respiratory sensitizer. Not a skin sensitizer based on laboratory study data.
Mutagenic Effects	Not expected to be mutagenic.
Carcinogenicity	Contains no ingredients above reportable quantities listed as a carcinogen.
Reproductive Toxicity	This product does not contain any known or suspected reproductive hazards.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Aspiration Hazard	Not anticipated to be an aspirational hazard.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

Persistence and Degradability No information available.

Bioaccumulation No information available.

Other Adverse Effects

No information available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

Contaminated Packaging

Do not re-use empty containers. 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.**

14. TRANSPORT INFORMATION

DOT

Not Regulated for Domestic Surface Transportation.

If shipping product by other means please contact supplier for further information.

15. REGULATORY INFORMATION

International Inventories

TSCA Exempt

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

U.S. Federal Regulations

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	CAS-No	Weight %	SARA 313 - Threshold Values %
Metribuzin	21087-64-9	34.02	1.0

SARA 311/312 Hazard Categories

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

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.

U.S. State Regulations**California Proposition 65**

This product contains the following Proposition 65 chemicals:

Chemical Name	CAS-No	California Prop. 65
1,4-Dioxane	123-91-1	Carcinogen
Formaldehyde	50-00-0	Carcinogen
Ethylene oxide	75-21-8	Carcinogen Developmental Female Reproductive Male Reproductive
Propylene oxide	75-56-9	Carcinogen
Naphthalene	91-20-3	Carcinogen

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Illinois	Rhode Island
Metribuzin	X	X	X		X
Propylene glycol	X	-	X	-	X

U.S. EPA Label 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:

HAZARDS TO HUMANS AND DOMESTIC ANIMALS**CAUTION**

Harmful if swallowed. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

ENVIRONMENTAL HAZARDS

For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwater or rinsate.

GROUNDWATER ADVISORY: Metribuzin is a chemical which can travel (seep or leach) through soil and can contaminate groundwater which may be used as drinking water. Metribuzin has been found in groundwater as a result of agricultural use. Users are advised not to apply Metribuzin where the water table (groundwater) is close to the surface, and where the soils are very permeable, i.e., well drained soils such as loamy sands. Your local agricultural agencies can provide further information on the type of soil in your area and the location of groundwater.

PHYSICAL AND CHEMICAL HAZARDS

Do not mix or allow coming in contact with oxidizing agents; hazardous chemical reaction may occur.

16. OTHER INFORMATION

NFPA	Health Hazard	1	Flammability	0	Instability	0	Physical and Chemical Hazards	-
HMIS	Health Hazard	1	Flammability	0	Physical Hazard	0	Personal Protection	X

Prepared By Winfield Solutions, LLC
P.O. Box 64589
St. Paul, MN 55164

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General Disclaimer

The information provided on this SDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

End of Safety Data Sheet