

BL2 Herbicide

Version 2.2

Revision Date 06/04/2018

Ref. 130000121056

This SDS adheres to the standards and regulatory requirements of the United States and may not meet the regulatory requirements in other countries.

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	BL2 Herbicide
Tradename/Synonym	:	Metribuzin 75XP Herbicide Metribuzin 75WG (Paste Extruded) DPX-G2504 METRIBUZIN: 4-Amino-6-(1,1-dimethylethyl)-3-(methylthio)-1,2,4-triazin-5(4H)-one
Manufacturer/Supplier	:	FMC Corporation 2929 Walnut Street Philadelphia, PA 19104 (215) 299-6000 (General Information) msdsinfo@fmc.com (E-Mail General Information)
Medical Emergency	:	1 800 / 331-3148 (ProPharma Group - U.S.A. & Canada) 1 651 / 632-6793 (ProPharma Group - All Other Countries - Collect)
For leak, fire, spill or accident emergencies, call:	:	1 800 / 424 9300 (CHEMTREC - U.S.A.) 1 703 / 741-5970 (CHEMTREC - International) 1 703 / 527 3887 (CHEMTREC - Alternate)

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Caution

Harmful if swallowed. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

Potential Health Effects

This section includes potential acute adverse effects which could occur if this material is not used according to the label.

Skin : May cause skin sensitization reactions in certain individuals.

Eyes

Metribuzin : May cause eye irritation. tearing, Discomfort.

Carcinogenicity
Material

IARC

NTP

OSHA

BL2 Herbicide

Version 2.2

Revision Date 06/04/2018

Ref. 130000121056

Titanium dioxide

2B

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Concentration
Metribuzin	21087-64-9	75 %
Other Ingredients		25 %

Present as an impurity in the clay component of this product:

Titanium Dioxide		<1 %
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SECTION 4. FIRST AID MEASURES

- Skin contact : The material is not likely to be hazardous by skin contact, but cleaning the skin after use is advisable. Consult a physician if necessary.
- Eye contact : The material is not likely to be hazardous by eye contact, but flushing the eye if contact occurs is advisable. Consult a physician if necessary.
- Inhalation : No specific intervention is indicated as the compound is not likely to be hazardous. Consult a physician if necessary.
- Ingestion : Call a poison control center or doctor for treatment advice. Have person sip a glass of water if able to swallow. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Do not give anything by mouth to an unconscious person.

BL2 Herbicide

Version 2.2

Revision Date 06/04/2018

Ref. 130000121056

General advice : Have the product container or label with you when calling a poison control center or doctor, or going for treatment.
For medical emergencies involving this product, see emergency numbers in Section 1. See Label for Additional Precautions and Directions for Use.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Water spray, Foam, Dry chemical, Carbon dioxide (CO2)

Unsuitable extinguishing media : High volume water jet, (contamination risk)

Firefighting Instructions : Wear full protective clothing and self-contained breathing apparatus. (on small fires) If area is heavily exposed to fire and if conditions permit, let fire burn itself out since water may increase the area contaminated. Cool containers / tanks with water spray.

SECTION 6. ACCIDENTAL RELEASE MEASURES

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Safeguards (Personnel) : Evacuate personnel, thoroughly ventilate area, use self-contained breathing apparatus. Use personal protective equipment.

Spill Cleanup : Sweep up and shovel into suitable containers for disposal.

Accidental Release Measures : Prevent material from entering sewers, waterways, or low areas. Never return spills in original containers for re-use. Dispose of in accordance with local regulations.

SECTION 7. HANDLING AND STORAGE

Handling (Personnel) : Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove clothing/PPE immediately if material gets inside. Wash thoroughly and put on clean clothing. Remove personal protective equipment immediately after handling this product. Wash the outside of gloves before removing. As soon

BL2 Herbicide

Version 2.2

Revision Date 06/04/2018

Ref. 130000121056

as possible, wash thoroughly and change into clean clothing.

Handling (Physical Aspects) : Keep away from heat and sources of ignition.

Storage : Do not contaminate water, other pesticides, fertilizer, food or feed in storage. Store in original container. Store in a cool, dry place. Keep out of the reach of children.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls : Ensure adequate ventilation. When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS. **IMPORTANT:** When reduced PPE is worn because a closed system is being used, handlers must be provided all PPE specified for "Applicators and Other Handlers" and have such PPE immediately available for use in an emergency, such as a spill or equipment breakdown.

Personal protective equipment

Respiratory protection : Where there is potential for airborne exposures in excess of applicable limits, wear approved respiratory protection with dust/mist cartridge.

Hand protection : Material: Protective gloves

Skin and body protection : Applicators and other handlers must wear:
 Long sleeved shirt and long pants
 Chemical resistant gloves made of any waterproof material
 Shoes plus socks
 PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:
 Coveralls
 Chemical resistant gloves made of any waterproof material
 Shoes plus socks

Protective measures : Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Use this product in accordance with its label.

Exposure Guidelines

BL2 Herbicide

Version 2.2

Revision Date 06/04/2018

Ref. 130000121056

Exposure Limit Values

Metribuzin			
TLV	(ACGIH)	5 mg/m ³	TWA
AEL *	(FMC)	5 mg/m ³	8 & 12 hr. TWA Total dust.
Titanium dioxide			
PEL:	(OSHA)	15 mg/m ³	8 hr. TWA Total dust.
TLV	(ACGIH)	10 mg/m ³	TWA
AEL *	(FMC)	10 mg/m ³	8 & 12 hr. TWA Total dust.
AEL *	(FMC)	5 mg/m ³	8 & 12 hr. TWA Respirable dust.

* AEL is FMC Corporation's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Form	: solid, water dispersible granules
Color	: off-white
Odor	: characteristic
pH	: 7.7 - 8.7
Bulk density	: 0.53 - 0.73 g/m ³
Water solubility	: dispersible

SECTION 10. STABILITY AND REACTIVITY

Stability	: Stable at normal temperatures and storage conditions.
Conditions to avoid	: None reasonably foreseeable.
Incompatibility	: No materials to be especially mentioned.

BL2 Herbicide

Version 2.2

Revision Date 06/04/2018

Ref. 130000121056

Hazardous reactions : Polymerization will not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

BL2 Herbicide

Inhalation 4 h LC50	:	> 5.04 mg/l , rat
Dermal LD50	:	> 5,000 mg/kg , rat
Oral LD50	:	1,030 mg/kg , rat
Skin irritation	:	No skin irritation, rabbit
Eye irritation	:	No eye irritation, rabbit
Sensitisation	:	May cause sensitisation by skin contact., mice

Metribuzin

Repeated dose toxicity	:	The following effects occurred at levels of exposure that significantly exceed those expected under labeled usage conditions.
		Oral dog 2 y Red blood cell destruction causing abnormal decrease in number of red blood cells (anaemia), Liver effects, Kidney effects, Thyroid effects, Testicular effects
		Oral rat 1 - 2 y Liver effects, Kidney effects, Thyroid effects, Testicular effects
Carcinogenicity	:	Animal testing did not show any carcinogenic effects. Not classifiable as a human carcinogen.
Mutagenicity	:	Animal testing did not show any mutagenic effects. Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
Reproductive toxicity	:	No toxicity to reproduction

BL2 Herbicide

Version 2.2

Revision Date 06/04/2018

Ref. 130000121056

Animal testing showed no reproductive toxicity.

Teratogenicity : Animal testing showed no developmental toxicity.

Titanium Dioxide
Carcinogenicity : Based upon all available study results, FMC scientists conclude that titanium dioxide will not cause lung cancer or chronic respiratory diseases in humans at concentrations experienced in the workplace.

SECTION 12. ECOLOGICAL INFORMATION

Aquatic Toxicity

Metribuzin

96 h LC50 : Oncorhynchus mykiss (rainbow trout) 74.6 mg/l

96 h EC50 : Desmodesmus subspicatus (green algae) 0.022 mg/l

48 h EC50 : Daphnia magna (Water flea) 49.6 mg/l

Additional ecological information : Environmental Hazards: 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 apply where weather conditions favour drift from areas treated. Do not contaminate water when cleaning equipment or disposing of equipment washwaters or rinsate. See product label for additional application instructions relating to environmental precautions.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste Disposal : Do not contaminate water, food or feed by disposal. Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

Container Disposal : Container Refilling and Disposal:
Refer to the product label for instructions.
Do not transport if this container is damaged or leaking.

In the event of a major spill, fire or other emergency, call emergency numbers presented in Section 1.

BL2 Herbicide

Version 2.2

Revision Date 06/04/2018

Ref. 130000121056

SECTION 14. TRANSPORT INFORMATION

IATA_C	UN number	: 3077
	Proper shipping name	: Environmentally hazardous substance, solid, n.o.s. (Metribuzin)
	Class	: 9
	Packing group	: III
	Labelling No.	: 9MI
IMDG	UN number	: 3077
	Proper shipping name	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Metribuzin)
	Class	: 9
	Packing group	: III
	Labelling No.	: 9
	Marine pollutant	: yes (Metribuzin)

Not regulated as a hazardous material by DOT.

SECTION 15. REGULATORY INFORMATION

SARA 313 Regulated Chemical(s) : Metribuzin

In the United States this product is regulated by the US Environmental Protection Agency (EPA) under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA). It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read and follow all label directions. This product is excluded from listing requirements under EPA/TSCA.

California Prop. 65 : WARNING! This product contains a chemical or chemicals known to the State of California to cause cancer.

PA Right to Know Regulated Chemical(s) : Substances on the Pennsylvania Hazardous Substances List present at a concentration of 1% or more (0.01% for Special Hazardous Substances): Metribuzin , Kaolin



BL2 Herbicide

Version 2.2

Revision Date 06/04/2018

Ref. 130000121056

SECTION 16. OTHER INFORMATION

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Contact person : FMC Corporation, Philadelphia, PA 19104 , Phone: 1-215-299-6000

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