

Safety Data Sheet

Revision Number: 4

1. Identification of the Substance/Preparation and of the Company/Undertaking

Revision date 02-Jan-2019

Product identifier Product Description:	Metricor DF			
<u>Other means of identification</u> Product code Registration number(s)	12U-144Z 70506-103			
Recommended use of the chemica				
Recommended use Uses advised against	Herbicide. Activities contrary to label recommendation			
	Details of the Supplier of the Safety Data Sheet			
Supplier Address UPL NA Inc.				
630 Freedom Business Center Suite 402				
King of Prussia, PA 19406				
Emergency telephone number Company Phone Number Emergency telephone number	1-800-438-6071 Chemtrec: (800) 424-9300 (24hrs) or (703) 527-3887 Medical: Rocky Mountain Poison Control Center (866) 673-6671 (24hrs)			

2. Hazards Identification

Classification

OSHA Regulatory Status

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.122)

Label elements

EMERGENCY OVERVIEW

Appearance Light Tan

Physical state granular

Odor sweet Musty

Hazards Not Otherwise Classified (HNOC)

OTHER INFORMATION

Very toxic to aquatic life with long lasting effects

Very toxic to aquatic life

May be harmful in contact with skin

3. Composition/information on Ingredients

Chemical name	CAS No	Weight-%
Kaolin	1332-58-7	8.6
Metribuzin technical	21087-64-9	75

If CAS number is "proprietary", the specific chemical identity and percentage of composition has been withheld as a trade secret.

4. First aid measures

FIRST AID MEASURES

Eye contact	Hold eye open and rinse slowly and gently with water for 15 - 20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.	
Skin contact	Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.	
Inhalation	Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a physician or poison control center immediately.	
Ingestion	Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice.	
Most Important Symptoms and Effects, Both Acute and Delayed		
Most Important Symptoms and Effects	no data available.	
Indication of Any Immediate Medical Attention and Special Treatment Needed		
Notes to physician	No information available. Treat symptomatically.	
5. Fire-fighting measures		
<u>Suitable extinguishing media</u> Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.		

Unsuitable extinguishing media no data available.

Specific hazards arising from the chemical

No information available.

Hazardous combustion products Dust clouds generated during handling and/or storage can form explosive mixtures with air. Dust explosion characteristics vary with the particle size, particle shape, moisture content, contaminants, and other variables.

As with any dry material, pouring this material or allowing it to free fall or be conveyed through chutes or pipes can accumulate and generate electrostatic sparks, potentially causing ignition of the material itself, or any flammable materials which may come into contactf with the material or its contianer. Check that all equipment is properly grounded and installed to satisfy electrical classification requirements. Carbon dioxide (CO2). Sulfur oxides. Methyl mercaptan. Amines.

Explosion data

Protective equipment and precautions for firefighters

Use personal protective equipment. 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

Avoid contact with skin and eyes.

Environmental Precautions			
Environmental precautions	Consult a regulatory specialist to determine appropriate state or local reporting requirements, for assistance in waste characterization and/or hazardous waste disposal and other requirements listed in pertinent environmental permits.		
Methods and material for containment and cleaning up			
Methods for Clean-Up	Sweep up and shovel into suitable containers for disposal.		
7. Handling and Storage			
Precautions for safe handling			
Handling	Keep out of reach of children. Fine dust dispersed in air may ignite. Avoid dust formation in confined areas. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.		
Conditions for safe storage, including any incompatibilities			
Storage	Keep containers tightly closed in a cool, well-ventilated place.		
incompatible materials	ketones. Aldehydes.		

8. Exposure Controls/Personal Protection

Exposure guidelines

Chemical name	ACGIH TLV	OSHA PEL	
Kaolin	TWA: 2 mg/m ³ particulate	TWA: 15 mg/m ³ total dust TWA: 5 mg/m ³ respirable fraction	
	matter containing no	(vacated) TWA: 10 mg/m ³ total dust (vacated) TWA: 5 mg/m ³ respirable	
	asbestos and <1%	fraction	
	crystalline silica, respirable		
	fraction		
Metribuzin technical	TWA: 5 mg/m ³	(vacated) TWA: 5 mg/m ³	
Engineering controls		chniques to reduce exposures. Local mechanical exhaust	
		onsult ACGIH ventilation manual or NFPA Standard 91 for design	
	of exhaust systems. PEST	FICIDE APPLICATORS & WORKERS. THESE WORKERS MUST	
	REFER TO PRODUCT LABELING AND DIRECTIONS FOR USE IN ACCORDANCE WITH		
	EPA WORKER PROTECTION STANDARD 40 CFR PART 170.		
Personal protective equipment			
Eye/Face Protection		bided through the use of chemical safety glasses, goggles, or a	
	faceshield selected in rega		
Skin protection	Wear protective gloves/clothing. Socks and footwear.		
Respiratory protection	Where airborne exposure is likely, use NIOSH approved respiratory protection equipment appropriate to the material and/or its components. Full facepiece equipment is recommended and, if used, replaces need for face shield and/or chemical goggles. If exposures cannot be kept at a minimum with engineering controls, consult respirator manufacturer to determine appropriate type equipment for given application. Observe respirator use limitations specified by NIOSH or the manufacturer. For emergency and other conditions where there may be a potential for significant exposure, use an approved full face positive-pressure, self-contained breathing apparatus. Respiratory protection programs must comply with 29 CFR 1910.134.		

General hygiene considerations Do not eat, drink or smoke when using this product. Wash hands and face before breaks and immediately after handling the product. Remove and wash contaminated clothing before re-use.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Physical state	granular		
Appearance	Light Tan	Odor	sweet Musty
color	No information available	8461	owoot madty
Property	VALUES	Remarks/ • Method	
рН	8.9	(1% aq)	
Melting point/freezing point	no data available		
Boiling Point/Range	No information available		
Flash Point	No information available		
Evaporation Rate	No information available		
Flammability (solid, gas)	No information available		
Flammability limit in air			
Upper Flammability Limit	No information available		
Lower Flammability Limit	No information available		
vapor pressure	1.2 X 10 - 7 mmHg @ 20 C		
Vapor Density	No information available		
Specific gravity	No information available		
Water solubility	No information available		
Solubility in Other Solvents	No information available		
Partition coefficient: n-octanol/wat	erNo information available		
Autoignition temperature	no data available		
Decomposition temperature	No information available		
Viscosity, kinematic	No information available		
Dynamic viscosity	No information available		
Explosive properties	No information available		
Oxidizing properties	No information available		
OTHER INFORMATION			
Softening point	No information available		
molecular weight	No information available		
VOC Content	No information available		
Liquid Density	No information available		

10. Stability and Reactivity

Reactivity

no data available

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Conditions to avoid

Sustained temperatures above 100 F.

incompatible materials

ketones. Aldehydes.

Hazardous decomposition products

Carbon dioxide (CO2). Oxides of sulfur. Amines. Methyl mercaptans.

11. Toxicological Information

Information on Likely Routes of Exposure

Product information

Metri/TriCor DF-Acute oral LD50 rat = 2379 mg/kg (male) 2794 mg/kg (female) Acute dermal LD50 rabbit = >5,000 mg/kg Eye - rabbit = Minimal irritation to the conjunctiva was

observed with all irritation resolving witin 4 days. Skin effects- rabbit = Not a dermal irritant

Metribuzin - In a three week dermal toxicity study, rabbits were treated with metribuzin at doses of 40, 200, and 1000 mg/kg for 6 hr/dy, 5 dys/wk. The high dose evidence of increased cholesterol levels and liver enzyme function was noted. Thyroxine levels were increased at doses of 200 mg/kg and above. All of these effects were slight and reversible. The NOEL was 40 mg/kg. In subacute inhalation studies, rats were exposed to aerosol concentrations of metribuzin ranging from 31 to 745 mg/cubic meter for 6 hr/dy, 5 dys/wk, for 3 weeks. Effects observed included behavioral changes, decreased body weight gains, liver enzyme induction and organ weight effects. The NOEC was 31 mg/cubic meter. Oral LD50 (rat) = 2,194 mg/kgDermal LD50 (rat) = >5,000 mg/kgInhalation LC50 (4 hr rat) = 0.709 mg/L

Inhalation	May cause irritation of respiratory tract.
Eye contact	Irritating to eyes.
Skin contact	May cause irritation.
Ingestion	MAY BE HARMFUL IF SWALLOWED.

Information on Toxicological Effects

Symptoms	No information available.		
Delayed and immediate effects as well as chronic effects from short and long-term exposure			
Sensitization Mutagenic effects Carcinogenicity	No information available. no data available. The information below indicates whether any agency has listed any ingredient as a carcinogen.		
Reproductive effects STOT - Single Exposure STOT - Repeated Exposure Target organ effects Aspiration hazard	Not Available. no data available. no data available. liver, Respiratory System, Central Nervous System (CNS), Thyroid. No information available.		

Numerical Measures of Toxicity - Product information

LD50 Oral	2379 mg/kg (rat)
LD50 Dermal	> 5000 mg/kg (rat)
LC50 Inhalation	No information available

12. Ecological Information

ecotoxicity

Do not apply directly to water to areas where surface water is present or to intertidal areas below the mean high water mark. Do not clean equipment or dispose of equipment washwater in a manner that will contaminate water resources or areable land. Do not apply when weather conditions favor drift from treated areas.

Persistence/Degradability

no data available.

Bioaccumulation/ Accumulation No information available.

Other Adverse Effects

no data available

	13. Disposal Considerations	
Waste Treatment Methods		
Waste Disposal Method	Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide or rinsate is a violation of Federal law. If the wastes cannot be disposed of by use or according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.	
Contaminated packaging	Refer to product label.	
14. Transport Information		
DOT		
	NOT REGULATED	
<u>TDG</u>	NOT REGULATED	
ΙΑΤΑ		

IMDG NOT REGULATED

NOT REGULATED

15. Regulatory 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:

signal word	CAUTION	
Ventilation Control	PESTICIDE APPLICATORS & WORKERS THESE WORKERS MUST REFER TO PRODUCT LABELING AND DIRECTIONS FOR USE IN ACCORDANCE WITH EPA WORKER PROTECTION STANDARD 40 CFR PART 170.	
Keep out of Reach of Children. Harmful if swallowed. Causes moderate eye irritation.		

International Inventories	
USINV	Not present
DSL/NDSL	Not present
EINECS/	Not Present
ELINCS	
ENCS	Not Present
China	Not Present
KECL	Not Present
PICCS	Not Present
AICS	Not Present
TSCA	Not Present

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory **DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

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AICS - Australian Inventory of Chemical Substances

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:

CERCLA Not applicable

<u>CERCLA</u> SARA Product RQ

RCRA Pesticide Information

State Regulations

State Right-to-KnowNot applicableInternational regulationsU.S. EPA Label informationEPA Pesticide registration number70506-103

16. Other Information				
NFPA_	HEALTH 1	flammability 1	Instability 0	Physical hazard -
Preparation Date	15-Sep-2016			
Revision date	02-Jan-2019			
Revision Summary				
Update logo Update s	ection 1 Update Section	n 16***		
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