

Safety Data Sheet

United Phosphorus, Inc.

Preparation Date 01-Nov-2017 Revision date 17-Apr-2018 Revision Number: 2

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

Product identifier

Product Description: Moccasin MTZ Herbicide

Other means of identification

 Item#:
 12U-335

 Registration number(s)
 70506-335

Recommended use of the chemical and restrictions on use

Recommended use Herbicide.

Uses advised against Activities contrary to label recommendation

Non labeled activities

Details of the Supplier of the Safety Data Sheet

Supplier Address
United Phosphorus Inc.
630 Freedom Business Center
Suite 402
King of Prussia, PA 19406

Emergency telephone number

Company Phone Number 610-223-2180

Emergency telephone number 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 considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Serious eye damage/eye irritation	Category 1
Aspiration toxicity	Category 1

Label elements

EMERGENCY OVERVIEW

DANGER

Hazard Statements

Causes serious eye damage

May be fatal if swallowed and enters airways



Appearance Clear Physical state Liquid Odor characteristic

Precautionary Statements - Prevention

Wear protective gloves/protective clothing/eye protection/face protection

IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

Do NOT induce vomiting

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards Not Otherwise Classified (HNOC) OTHER INFORMATION

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

3. Composition/information on Ingredients

Chemical name	CAS No.	Weight-%
Metribuzin	21087-64-9	12.98
S-METOLACHLOR	87392-12-9	38.94
petroleum distillates	Proprietary	>36

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 contactTake off contaminated clothing. 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 poison control center or

doctor for further treatment advice.

Ingestion Call a physician or poison control center immediately. Clean mouth with water. Do not give

any liquids. Never give anything by mouth to an unconscious person.

Most Important Symptoms and Effects, Both Acute and Delayed

Most Important Symptoms and

Effects

No information available.

Indication of Any Immediate Medical Attention and Special Treatment Needed

Notes to physicianContains a petroleum distillate - vomiting may cause aspiration pneumonia.

5. Fire-fighting measures

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media No information available.

Specific hazards arising from the chemical

No information available.

Hazardous combustion products Thermal decomposition or combustion may produce irritating and possibly toxic gases in a fire.

Explosion data

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 Use personal protective equipment. Avoid contact with skin and eyes. ELIMINATE all

ignition sources (no smoking, flares, sparks or flames in immediate area). Wash thoroughly

after handling.

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 Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder,

sawdust). Sweep up and shovel into suitable containers for disposal.

7. Handling and Storage

Precautions for safe handling

Handling Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Keep away

from open flames, hot surfaces and sources of ignition. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Wash thoroughly after handling. KEEP OUT OF REACH OF CHILDREN AND PETS.

Conditions for safe storage, including any incompatibilities

Storage Keep in a dry, cool and well-ventilated place. Keep away from food, drink and animal

feeding stuffs.

incompatible materials No information available.

8. Exposure Controls/Personal Protection

Exposure guidelines

Chemical name	ACGIH TLV	OSHA PEL
Metribuzin	TWA: 5 mg/m ³	(vacated) TWA: 5 mg/m ³

Engineering controls Investigate engineering techniques to reduce exposures. Local mechanical exhaust

ventilation is preferred. Consult ACGIH ventilation manual or NFPA Standard 91 for design

of exhaust systems.

Personal protective equipment

characteristic

Eye/Face Protection

Skin protection Respiratory protection Where there is potential for eye contact have eye flushing equipment available. Use eye protection to avoid eye contact. If splashes are likely to occur, wear:. Goggles. Chemical resistant protective clothing. Chemical resistant footwear plus socks.

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.

Odor

Remarks/ • Method @20 C (1% solution)

General hygiene considerations

Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Keep away from food, drink and animal feeding stuffs. Avoid contact with skin, eyes and clothing. Wear suitable gloves and eye/face protection. Wash hands before breaks and immediately after handling the product.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Physical state Liquid Appearance Clear

color light brown

Property VALUES 5.70

Melting point/freezing point
Boiling Point/Range
Flash Point
Evaporation Rate
Flammability (solid, gas)

No information available
No information available
No information available
No information available

Flammability limit in air

Upper Flammability Limit No information available **Lower Flammability Limit** No information available vapor pressure No information available **Vapor Density** No information available Specific gravity 1.03 g/ml @ 20 C Water solubility Miscible with water Solubility in Other Solvents No information available Partition coefficient: n-octanol/waterNo information available **Autoignition temperature** No information available No information available **Decomposition temperature** Viscosity, kinematic No information available No information available Dynamic viscosity No information available **Explosive properties Oxidizing properties** No information available

OTHER INFORMATION

Softening point
molecular weight
VOC Content
Liquid Density

No information available
No information available
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

Extremes of temperature and direct sunlight.

incompatible materials

No information available.

Hazardous decomposition products

No information available.

11. Toxicological Information

Information on Likely Routes of Exposure

Product information

Moccasin MTZ

Acute oral LD50 = 2615 mg/kg Acute dermal LD50 = >2000 mg/kg Acute inhalation LC50 = > 5.323 mg/L

Inhalation May be harmful if inhaled.

Eye contact Moderately irritating to the eyes.

Skin contact Substance may cause slight skin irritation.

HARMFUL IF SWALLOWED. Ingestion

Information on Toxicological Effects

No information available. **Symptoms**

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

Sensitization No information available. Mutagenic effects No information available.

Carcinogenicity The information below indicates whether any agency has listed any ingredient as a

carcinogen.

Not Available. Reproductive effects

No information available. **STOT - Single Exposure** No information available. **STOT - Repeated Exposure** No information available. Aspiration hazard

Numerical Measures of Toxicity - Product information

LD50 Oral 2615 mg/kg (rat) **LD50 Dermal** > 2000 mg/kg (rat)

12. Ecological Information

ecotoxicity

Harmful to aquatic life S-metolachlor

FISH

Rainbow trout 96 hr = 1.23 mg/L

12U-335 Moccasin MTZ Herbicide

Brown trout 21 day =0.25 mg/L

ALGAE

Selenastrum capricornutim = 0.0008 mg/L

Aquatic Invertebrates

Daphnia magna 21 day = 5.9 mg/L

BIRDS

Duck LD50 = >2150 mg/kg

Persistence/Degradability

No information available.

Bioaccumulation/ Accumulation

Bioaccumulative potential.

Chemical name	Log Pow
petroleum distillates	2.9 - 6.1

Other Adverse Effects

No information 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 When shipped domestically by highway in non-bulk containers this product can be shipped

as not regulated.

When shipped in bulk, by vessel, or internationally use the IMDG shipping description:

TDG When shipped in Canada domestic highway non-bulk this product can be shipped as Not

regulated as per TDG 1.45.1

IATA

UN-No UN3082

Proper shipping name Environmentally hazardous substances, liquid, n.o.s (S-metolachlor)

Hazard class 9
Packing group PG III

Description Marine Pollutant

IMDG/IMO

UN-No UN3082

Proper shipping name Environmentally hazardous substances, liquid, n.o.s (S-metolachlor)

Hazard class 9
Packing group PG III

Marine Pollutant Marine Pollutant

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

Harmful if swallowed or absorbed through the skin. Causes moderate eye irritation. Contains petroleum distillates.

International Inventories

USINV 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
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

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 does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Acute health hazard yes
Chronic health hazard NO
Fire hazard No
Sudden release of pressure hazard No
Reactive Hazard No

CERCLA

Not applicable

CERCLA

RCRA

Pesticide Information

State Regulations

Not applicable

State Right-to-Know

Not applicable

International regulations

U.S. EPA Label information

EPA Pesticide registration number 70506-335

16. Other Information

NFPA HEALTH 2 flammability 1 Instability 0 Physical hazard -

Preparation Date01-Nov-2017Revision date17-Apr-2018

Revision Summary Update product name Disclaimer

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