

Safety Data Sheet

United Phosphorus, Inc.

Preparation Date 26-Sep-2016 Revision date 06-Oct-2016 Revision Number: 4

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

Product identifier

Product Description: Moccasin Herbicide

Other means of identification

Item#:12U-323SynonymsNot AvailableRegistration number(s)70506-323

Recommended use of the chemical and restrictions on use

Recommended use Herbicide.

Uses advised against Non labeled activities Activities contrary to label recomendation

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 1-800-438-6071

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 2A
FLAMMABLE LIQUIDS	Category 4

Label elements

EMERGENCY OVERVIEW

WARNING

Hazard Statements

Causes serious eye irritation combustible liquid



Appearance Yellow to brown Physical state Liquid , Emulsifiable Odor Mild chemical concentrate (EC)

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection

Do not spray on an open flame or other ignition source

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

In case of fire: Use CO2, dry chemical, or foam for extinction

Precautionary Statements - Storage

Store in a well-ventilated place. Keep cool

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

3. Composition/information on Ingredients

Chemical name	CAS-No	Weight %	Trade secret
S-METOLACHLOR	87392-12-9	87.3	
calcium dodecylbenzene sulfonate	26264-06-2	1 - 5	

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 Remove contaminated clothing and shoes. 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 information available.

Indication of Any Immediate Medical Attention and Special Treatment Needed

Notes to physician Treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media

Carbon dioxide (CO2). Dry powder. Foam. Aquatic. Water spray.

Unsuitable extinguishing media No information available.

Specific hazards arising from the chemical

No information available.

Explosion data

Protective equipment and precautions for firefighters

Use personal protective equipment. In the event of fire, wear self contained breathing apparatus.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal Precautions Avoid contact with skin and eyes. Use personal protective equipment.

Environmental Precautions

Consult a regulatory specialist to determine appropriate state or local reporting **Environmental precautions**

requirements, for assistance in waste characterization and/or hazardous waste disposal

and other requirements listed in pertinenet environmental permits.

Methods and material for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, **Methods for Clean-Up**

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

7. Handling and Storage

Precautions for safe handling

Wear personal protective equipment. Remove and wash contaminated clothing before Handling

> re-use. Avoid contact with skin and eyes. Do not eat, drink or smoke when using this product. Keep away from flames and hot surfaces. Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Storage Keep container tightly closed in a dry and well-ventilated place.

Strong oxidizing agents. Strong acids. incompatible materials

8. Exposure Controls/Personal Protection

Exposure guidelines This product does not contain any hazardous materials with occupational exposure limits

established by the region specific regulatory bodies.

Engineering controls Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye/Face Protection

Skin protection

Where there is potential for eye contact have eye flushing equipment available. Use eye

protection to avoid eye contact. Safety glasses with side-shields.

Wear protective gloves/clothing. Chemical resistant footwear plus socks. 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 googles. 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

Remove and wash contaminated clothing before re-use. Do not eat, drink or smoke when using this product. 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 , Emulsifiable concentrate (EC)

Appearance Yellow to brown Odor Mild chemical

color No information available

Property VALUES Remarks/ • Method

pH 4.3 (1% aq)

Melting point/freezing pointNo information availableBoiling Point/RangeNo information availableFlash Point95 °C / 203 °FEvaporation RateNo information available

Flammability (solid, gas) Not required No information available

Flammability limit in air

Upper Flammability Limit
Lower Flammability Limit
vapor pressure
Vapor Density

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

Specific gravity 1.1042 kg/l

Water solubility No information available Solubility in Other Solvents No information available Partition coefficient: n-octanol/waterNo information available No information available **Autoignition temperature Decomposition temperature** No information available Viscosity, kinematic No information available No information available **Dynamic viscosity** No information available **Explosive properties** No information available **Oxidizing properties**

OTHER INFORMATION

Softening pointNo information availablemolecular weightNo information availableVOC ContentNo information availabledensityNo information availableBulk densityNo 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.

Hazardous polymerization No information available.

Conditions to avoid

Keep away from open flames, hot surfaces and sources of ignition.

incompatible materials

Strong oxidizing agents. Strong acids.

Hazardous decomposition products

Carbon oxides. Nitrogen oxides (NOx). Hydrogen chloride.

11. Toxicological Information

Information on Likely Routes of Exposure

Inhalation May cause irritation of respiratory tract.

Eye contact Moderately irritating to the eyes.

Skin contact May be absorbed through the skin.

Ingestion HARMFUL IF SWALLOWED.

Component Information

Metolachlor

Acute oral LD50 = 1063-1936 mg/kg (rat) Acute dermal LD50 = >2000 mg/kg (rabbit) Acute inhalation LC50 = >2910 mg/m³ (4hr rat)

Not an eye or skin irritant (rabbit)
May cause sensitization (quinea pig)

Information on Toxicological Effects

Symptoms No information available.

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

Sensitization May cause sensitization by skin contact.

Mutagenic effects No information available.

Carcinogenicity There are no known carcinogenic chemicals in this product.

Reproductive effects Not Available.

STOT - Single Exposure
STOT - Repeated Exposure
Chronic toxicity
Aspiration hazard
No information available.
Avoid repeated exposure.
No information available.

Numerical Measures of Toxicity - No information available

12. Ecological Information

ecotoxicity

No information available

Persistence/Degradability

No information available.

Bioaccumulation/ Accumulation

No information available.

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

DOTWhen 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:

IATA

UN-No UN3082

Proper shipping name Environmentally hazardous substance, liquid, n.o.s S-metolachlor

Hazard class 9
Packing group III

Description Marine Pollutant

IMDG/IMO

UN-No UN3082

Proper shipping name Environmentally hazardous substance, liquid, n.o.s. S-metolachlor

Hazard class 9
Packing group III
EmS No. F-A, S-F
Special Provisions 274, 335

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

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.

Harmful if absorbed through the skin. Harmful if swallowed. Causes moderate eye irritation. Keep out of Reach of Children.

International Inventories

USINV Not determined DSL/NDSL Not determined EINECS/ Does not comply

ELINCS

ENCS Does not comply
China Does not comply

12U-323 Moccasin Herbicide

KECLDoes not complyPICCSDoes not complyAICSDoes not complyTSCADoes not comply

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

This product is a registered pesticide and therefore is exempt from TSCA requirements.

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 and Title 40n of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazardous

Categorization

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

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
calcium dodecylbenzene sulfonate 26264-06-2	1000 lb			X

Chemical name	RQ	CERCLA EHS RQs	RQ
calcium dodecylbenzene sulfonate	1000 lb		RQ 1000 lb final RQ RQ 454 kg final
26264-06-2			RQ

CERCLA

Component	RQ
calcium dodecylbenzene sulfonate	1000 lb
26264-06-2 (1 - 5)	

RCRA

Pesticide Information

State Regulations

State Right-to-Know International regulations
U.S. EPA Label information

EPA Pesticide registration number 70506-323

16. Other Information

NFPA HEALTH 2 flammability 0 Instability 0 Physical hazard -

Preparation Date 26-Sep-2016 Revision date 26-Sep-2016

Revision Summary

Update section 14 Update Section 9

Disclaimer

United Phosphorus, Inc. believes that the information and recommendations container herein (including data and statements) are accurate as of the date hereof. NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY, OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, IS MADE CONCERNING THE INFORMATION PROVIDED HEREIN. The information provided herein relates only to the specific product designated and may not be valid where such product is used in combination with other materials or in any process. Further, since the conditions and methods of use are beyond the control of United Phosphorus, Inc. and United Phosphorus Inc. expressly disclaims any and all liability as to any results obtained or arising from any use of the product or reliance on such information.

End of MSDS