



# Safety Data Sheet

Preparation Date 15-Aug-2017

Revision date 08-Mar-2022

Revision Number: 5

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

### Identification of the product

**Product Description** Moccasin II Plus Herbicide

### Other means of identification

**Internal SDS code** 12U-IIPLUS

**Registration number(s)** 70506-333

### Recommended use of the chemical and restrictions on use

**Recommended use** Herbicide.

**Uses advised against** Non labeled activities

### 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** 1-800-438-6071

**Emergency telephone number** Chemtrec: (800) 424-9300 (24hrs) or (703) 527-3887  
Medical: Rocky Mountain Poison and Drug Safety (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)

Acute toxicity - Dermal	Category 4
Serious eye damage/eye irritation	Category 1

### Label elements

#### EMERGENCY OVERVIEW

**DANGER**

#### Hazard Statements

Harmful in contact with skin  
Causes serious eye damage



**Appearance** Viscous

**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 ON SKIN: Wash with plenty of soap and water

Call a POISON CENTER or doctor if you feel unwell

Wash contaminated clothing before reuse

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards Not Otherwise Classified (HNOC)****OTHER INFORMATION**

- Causes mild skin irritation
- Toxic to aquatic life with long lasting effects

### 3. Composition/information on Ingredients

Chemical name	CAS No	Weight-%
S-metolachlor	87392-12-9	82.4
calcium dodecylbenzene sulfonate	26264-06-2	1 - 5
Benoxacor	98730-04-2	5.25
Ethoxylated polyarylphenol	99734-09-5	4.4

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**

<b>Eye contact</b>	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.
<b>Skin contact</b>	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.
<b>Inhalation</b>	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.
<b>Ingestion</b>	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** Treat symptomatically.

### 5. Fire-fighting measures

**Suitable extinguishing media**

Carbon dioxide (CO<sub>2</sub>). Dry powder. Foam. Aquatic. Water spray.

**Unsuitable extinguishing media** no data 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**

**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. Remove and wash contaminated clothing before 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.

**incompatible materials** Strong oxidizing agents. Strong acids.

## 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**

Where there is potential for eye contact have eye flushing equipment available. Use eye protection to avoid eye contact. Safety glasses with side-shields.

**Skin protection**

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 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**

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

### 9.1 Information on basic physical and chemical properties

<b>Appearance</b>	Viscous	
<b>Physical state</b>	Liquid	
<b>Odor</b>	characteristic	
<b>color</b>	dark brown	
<u>Property</u>	<u>VALUES</u>	<u>Remarks/ Method</u>
<b>pH</b>	5.23	@20 C
<b>Melting point/freezing point</b>		None known
<b>Boiling Point/Range</b>		None known
<b>Flash Point</b>	162.3 °C	None known
<b>Evaporation Rate</b>		None known
<b>Flammability (solid, gas)</b>	Not required	None known
<b>Specific gravity</b>	1.11527 @ 20 C	
<b>Bulk density</b>		None known
<b>Water solubility</b>		EMULSIFIABLE- FORMS EMULSION WITH WATER
None known		<b>Solubility in Other Solvents</b> No information available
None known		<b>Partition coefficient: n-octanol/water</b>
None known		<b>Autoignition temperature</b>
None known		<b>Decomposition temperature</b>
None known		<b>Viscosity</b>
None known		

### 9.2 OTHER INFORMATION

## 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****Product information**

Moccasin II Plus  
 Acute oral LD50 (rat) = 4545 mg/kg  
 Acute dermal LD50 (rat/rabbit) = > 2000 mg/kg  
 Acute inhalation LC50 (rat)= >5.420 mg/L (4hr)

<b>Inhalation</b>	May be harmful if inhaled.
<b>Eye contact</b>	Causes substantial but temporary eye injury.
<b>Skin contact</b>	May be absorbed through the skin in harmful amounts.
<b>Ingestion</b>	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** May cause sensitization by skin contact.  
**Mutagenic effects** no data available.  
**Carcinogenicity** There are no known carcinogenic chemicals in this product.  
**Reproductive effects** Not Available.  
**STOT - Single Exposure** no data available.  
**STOT - Repeated Exposure** no data available.  
**Chronic toxicity** Avoid repeated exposure.  
**Aspiration hazard** No information available.

**Numerical Measures of Toxicity - No information available**

**LD50 Oral** 4545 mg/kg (rat)  
**LD50 Dermal** > 2000 mg/kg (rat) (rabbit)  
**LC50 Inhalation** > 20.96 mg/l (rat) ( 1 hr)

**12. Ecological Information****ecotoxicity**

S-metolachlor  
 FISH  
 Rainbow trout 96 hr = 1.23 mg/L  
 Brown trout 21 day =0.25 mg/L  
 ALGAE  
 Selenastrum capricornutum = 0.0008 mg/L  
 Aquatic Invertebrates  
 Daphnia magna 21 day = 5.9 mg/L  
 BIRDS  
 Duck LD50 = >2150 mg/kg

**Persistence/Degradability**

no data available.

**Bioaccumulation/ Accumulation**

No information available.

Chemical name	Log Pow
S-metolachlor	3.05

87392-12-9

**Other Adverse Effects**

no data available

**13. Disposal Considerations****Waste Treatment Methods****Waste Disposal Method**

Pesticide wastes can be 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**

<b>UN/ID no</b>	UN3082
<b>Proper shipping name</b>	Environmentally hazardous substance, liquid, n.o.s (S-metolachlor)
<b>Hazard class</b>	9
<b>Packing group</b>	III
<b>Description</b>	Marine pollutant

**IMDG**

<b>UN/ID no</b>	UN3082
<b>Proper shipping name</b>	Environmentally hazardous substance, liquid, n.o.s (S-metolachlor)
<b>Hazard class</b>	9
<b>Packing group</b>	III
<b>Environmental hazards</b>	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**

WARNING

**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. 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.

Keep out of Reach of Children. Causes substantial but temporary eye injury. Harmful if absorbed through the skin. Harmful if swallowed.

### International Inventories

USINV	Present
DSL/NDSL	Not present
EINECS/ ELINCS	Not Present
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

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.

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

#### **CERCLA**

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

#### **CERCLA**

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

#### **RCRA**

#### **Pesticide Information**

Component	FIFRA - Restricted Use	FIFRA - Pesticide Product Other Ingredients	FIFRA - Listing of Pesticide Chemicals	California Pesticides - Restricted Materials
S-metolachlor 87392-12-9 ( 82.4 )			X	
Ethoxylated polyarylphenol 99734-09-5 ( 4.4 )			X	

#### **State Regulations**

#### **State Right-to-Know**

Chemical name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
calcium dodecylbenzene sulfonate - 26264-06-2	X	X	X		

**International regulations**

**U.S. EPA Label information**

EPA Pesticide registration number 70506-333

**16. Other Information**

**NFPA** HEALTH 1 flammability 0 Instability 0 Physical hazard -

Preparation Date 15-Aug-2017

Revision date 08-Mar-2022

**Revision Summary**

Update logo

**Disclaimer**

UPL NA Inc. believes that the information and recommendations contained 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 UPL NA Inc. and UPL NA 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 SDS