

Safety Data Sheet

Preparation Date 15-Aug-2017 Revision date 02-Jan-2019 Revision Number: 3

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

Product identifier

Product Description: Moccasin II Plus Herbicide

Other means of identification

Product 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 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)

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

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

no data available.

Effects

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 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

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

Skin protection

Respiratory 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.

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

Information on basic physical and chemical properties

Physical state Liquid
Appearance Viscous

Appearance Viscous **Odor** characteristic

color dark brown

Property VALUES Remarks/ • Method

pH 5.23 @20 C

Melting point/freezing pointno data availableBoiling Point/RangeNo information availableFlash Point162.3 °C / 342.1 °FEvaporation RateNo information available

Flammability (solid, gas) Not required No information available

Flammability limit in air

Upper Flammability Limit
Lower Flammability LimitNo information available
No information available
No information available
No information availableVapor DensityNo information available

Specific gravity 1.11527 @ 20 C

Water solubility EMULSIFIABLE- FORMS EMULSION

WITH WATER

Solubility in Other Solvents
Partition coefficient: n-octanol/waterNo information available
Autoignition temperature
Decomposition temperature
Viscosity, kinematic
No information available
No information available
No information available

Viscosity, kinematicNo information availableDynamic viscosity129.85 cP @ 20 CExplosive propertiesNo information availableOxidizing propertiesNo information available

OTHER INFORMATION

Softening pointNo information availablemolecular weightNo information availableVOC ContentNo information availableLiquid 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

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)

Inhalation May be harmful if inhaled.

Eye contact Causes substantial but temporary eye injury.

Skin contact May be absorbed through the skin in harmful amounts.

Ingestion 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
STOT - Single Exposure
STOT - Repeated Exposure
Chronic toxicity

Not Available.
no data available.
Avoid repeated exposure.

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 capricornutim = 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.

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

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:

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/ID no. UN3082

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

Hazard class 9
Packing group III

Special Provisions A158, A179, A97

<u>IMDG</u>

UN/ID 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

Environmental hazards Environmental hazards

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/ Not Present
ELINCS

ENCS

Not Present
China
Not Present
KECL
Not Present
PICCS
Not Present
AICS
Not Present
Not Present
Not Present
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.

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

CERCLA

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
Not applicable
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 Date15-Aug-2017Revision date02-Jan-2019

Revision Summary

Update logo Update section 1 Update Section 16***

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