



United Phosphorus, Inc.

NFPA	PPE

Issued Date 17-Apr-2014

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Revision Number: 1

1. PRODUCT AND COMPANY IDENTIFICATION

UPI
 630 Freedom Business Center
 Suite 402
 King of Prussia, PA 19406

Emergency Telephone Number
 Chemtrec: (800) 424-9300 (24hrs) or (703) 527-3887
 Medical: Rocky Mountain Poison Control Center
 (866) 673-6671 (24hrs)

<u>Company Information</u>	<u>Contact Information</u>	<u>Phone Number</u>	<u>Available Hrs</u>
UPI	R&D Technical Service	484-804-6974	8:00 am - 5:00 pm (EST)

Product Name	Broadloom Herbicide
EPA Reg #	70506-306
Recommended Use	Herbicide
Product Code	12U-BRLM

2. HAZARDS IDENTIFICATION

Emergency Overview		
Harmful if swallowed or absorbed through skin.		
CAUTION		
Appearance Yellow.	Physical State Liquid.	Odor Characteristic.

Potential Health Effects

Eyes	Can cause slight to moderate irritation to the eyes.
Skin	Irritating to skin.
Ingestion	Harmful if swallowed.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients Name	CAS-No	Weight %	OSHA PEL
Component Sodim bentazon 50723-80-3 (44)	50723-80-3	44	N/A

4. 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	Wash off immediately with soap and plenty of water for at least 15 minutes. If skin irritation persists, call a physician
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 CENTER or doctor/physician if you feel unwell
Ingestion	Call a physician or poison control center immediately Have person sip a glass of water if able to swallow. Never give anything by mouth to an unconscious person Do not induce vomiting unless told to do so by a poison control center or doctor
Notes to Physician	Treat symptomatically

5. FIRE-FIGHTING MEASURES

Flammable Explosive Properties

Flash Point >100 C	Not available
Autoignition Temperature	Not available
Flammability Limits in Air	Not available
Extngushing Media	Carbon dioxide (CO2), Dry chemical, Foam
Fire/Explosion Hazard	In fire conditions, may release irritating and toxic gases due to thermal decomposition or combustion.
Hazardous Combustion Products	Carbon monoxide, Carbon dioxide (CO2), Hydrocarbons, Oxides of nitrogen, Sulfur oxides.
NFPA	Health 1 Flammability 0 Instability 0

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Avoid contact with the skin and the eyes. Use personal protective equipment. Provide adequate ventilation.
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 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

Handling	Avoid contact with skin and eyes. Wear personal protective equipment. Remove and wash contaminated clothing before re-use. Keep away from open flames, hot surfaces and sources of ignition. Do not eat, drink or smoke when using this product. Pesticide applicators and workers must refer to product labeling and directions for use.
Storage	Keep containers tightly closed in a cool, well-ventilated place. Keep away from heat and sources of ignition.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

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.
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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.

Skin Protection

Chemical resistant gloves. Impervious 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. Remove and wash contaminated clothing before re-use. Wear suitable gloves and eye/face protection. Wash hands and face before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Yellow	Odor	Characteristic
Physical State	Liquid	pH	6.95
Boiling Point/Range	Not available	Melting Point/Range	Not available
Specific Gravity	1.1906 g/cm ³	Solubility	Completely soluble
Evaporation Rate	Not available	Vapor pressure	Not available
Vapor Density	Not available	VOC Content	Not available
Viscosity	18 cps	Molecular Weight	no data available
Bulk Density	no data available	Percent Solids	Not available
Percent Volatiles	Not available		

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions
Conditions to Avoid	Not known Heat, flames and sparks Take precautionary measures against static charges
Incompatible Materials	Strong acids, Strong oxidizing agents

Hazardous Decomposition Products None under normal use

Possibility of Hazardous Polymerization None under normal processing

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information

Broadloom:

Acute oral (rat) LD50 = 4545 mg/kg

Acute dermal (rabbit/rat) LD50 = >2,000 mg/kg

Acute inhalation (rat) LC50 = >5.257 mg/L

Primary eye irritation (rabbit) = Mildly irritating

Primary dermal irritation (rabbit) = Not irritatin

Dermal sensitization = Not a sensitizer

Chronic Toxicity

Carcinogenicity

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

12. ECOLOGICAL INFORMATION

Ecotoxicity

Sodium bentazon -

Aquatic:

Rainbow trout, 96 hr LC50 = >100 mg/L

Bluegill sinfish, 96 hr LC50 = > 100 mg/L

Daphnia magna, 48 hr EC50 = > 500 mg/L

Avain:

Bobwhite quail, LC50 >5,000 mg/kg

Mallard duck, LC50 >5,000 mg/kg.

13. DISPOSAL CONSIDERATIONS

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

ICAO Not regulated

IATA Not regulated

IMDG/IMO Not regulated

TDG Not regulated

15. REGULATORY INFORMATION

International Inventories

Chemical Name	TSCA	DSL	NDSL	EINECS/ ELINCS	ENCS	CHINA	KECL	AICS
Sodim bentazon				X		X	Present	X

USA

Federal Regulations

SARA 313

Y

SARA 311/312 Hazardous Categorization

Chronic Health Hazard	No
Acute Health Hazard	Yes
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product contains the following HAPs:

CERCLA

RCRA

Pesticide Information

State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals:

State Right-to-Know

International Regulations

Mexico - Grade Mexico - Grade

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class

Not determined

16. OTHER INFORMATION

Revision Date 17-Apr-2014

Revision Summary

Add to system

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End of MSDS