

# **Safety Data Sheet**

**United Phosphorus, Inc.** 

Preparation Date 07-May-2015

Revision date 04-Nov-2015

**Revision Number: 2** 

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

Product identifier Product Description:

Surflan AS Specialty

Other means of identification	
Item#:	
UN-No	
Synonyms	
Registration number(s)	

12U-125 UN3082 Not Available 70506-44

Recommended use of the chemical and restrictions on useRecommended useHerbicide.Uses advised againstActivities contrary to label recomendation

Details of the Supplier of the Safety Data SheetSupplier AddressUnited Phosphorus Inc.630 Freedom Business CenterSuite 402King of Prussia, PA 19406Emergency telephone numberCompany Phone NumberEmergency telephone numberCompany Phone NumberEmergency telephone numberCompany Phone NumberLaboration (800) 424-9300Medical: Rocky Mountain

1-800-438-6071 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 - Inhalation (Dusts/Mists)	Category 4
Acute toxicity - initialation (Dusts/Mists)	

#### Label elements

EMERGENCY OVERVIEW		
WARNING		
hazard statements HARMFUL IF INHALED		
appearance Opaque Orange	Physical state liquid	Odor Slight aromatic

#### **Precautionary Statements - Prevention**

Do not get in eyes, on skin, or on clothing Use only outdoors or in a well-ventilated area

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Call a POISON CENTER or doctor if you feel unwell

# Hazards Not Otherwise Classified (HNOC)

## OTHER INFORMATION

May be harmful in contact with skin

## 3. Composition/information on Ingredients

Chemical name	CAS-No	Weight %	Trade secret
Oryzalin	19044-88-3	40.4	
Glycerin	56-81-5	<30	

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 Hold eye open and rinse slowly and gently with water for 15 - 20 minutes. Remove contact Eve contact lenses, if present, after 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice. Skin contact Take off contaminated clothing. Wash off immediately with plenty of water for at least 15 minutes. Call poison control center or doctor for treatment advice. Wash face, hands and any exposed skin thoroughly after handling. Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give Inhalation 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 information available. Effects Indication of Any Immediate Medical Attention and Special Treatment Needed Notes to physician No information available. 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 productsOxides of nitrogen. Can emit toxic fumes under fire conditions.

#### Explosion data Protective equipment and precautions for firefighters

# Use personal protective equipment. 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 Avoid contact with the skin and the eyes. Use personal protective equipment. Wear **Personal Precautions** protective gloves/clothing and eye/face protection. 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 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 Handling Keep out of reach of children. Do not eat, drink or smoke when using this product. Avoid contact with skin and eyes. Wear personal protective equipment. Remove and wash contaminated clothing before re-use. Wash thoroughly after handling. Conditions for safe storage, including any incompatibilities Keep out of the reach of children. Keep containers tightly closed in a cool, well-ventilated Storage place. incompatible materials No materials to be especially mentioned.

## 8. Exposure Controls/Personal Protection

#### Exposure guidelines

Chemical name	ACGIH TLV	OSHA PEL
Glycerin		TWA: 15 mg/m <sup>3</sup> mist, total particulate TWA: 5 mg/m <sup>3</sup> mist, respirable
		fraction
		(vacated) TWA: 10 mg/m <sup>3</sup> mist, total particulate (vacated) TWA: 5 mg/m <sup>3</sup> mist, respirable fraction
Engineering controls	Investigate engineering te	chniques to reduce exposures. Local mechanical exhaust
	ventilation is preferred. C	onsult ACGIH ventilation manual or NFPA Standard 91 for design
		FICIDE APPLICATORS & WORKERS. THESE WORKERS MUST
		ABELING AND DIRECTIONS FOR USE IN ACCORDANCE WITH
		TION STANDARD 40 CFR PART 170.
Personal protective equipment		
Eye/Face Protection	Where there is potential for protection to avoid eye co	or eye contact have eye flushing equipment available. Use eye ntact.
Skin protection	Long sleeved clothing. Long pants. 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. Wear suitable gloves and eye/face protection. Wash hands before breaks and immediately after handling the product. Remove and wash contaminated clothing before re-use.

## 9. Physical and Chemical Properties

#### Information on basic physical and chemical properties

Physical state appearance	liquid Opaque Orange	Odor	Slight aromatic
color	No information available		
Property_	VALUES	Remarks/ • Method	
pH	5.9		
Melting point/freezing point	6.9 °C / 44 °F		
Boiling Point/Range	No information available		
Flash Point	>93 C >200 F		
Evaporation Rate	No information available		
flammability (solid, gas)	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	1.138 to 1.239 @ 25 C		
Water solubility	No information available		
Solubility in Other Solvents	No information available		
Partition coefficient: n-octanol/wate	erNo information available		
Autoignition temperature	No information available		
decomposition temperature	No information available		
Viscosity, kinematic	No information available		
Dynamic viscosity	No information available		
Explosive properties	No information available		
Oxidizing properties	No information available		
OTHER INFORMATION			
Coftoning point	No information available		
Softening point	No information available		
molecular weight VOC Content	No information available		
	No information available		
density Bulk density	No information available		
Duin delibily			
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 Keep away from open flames, hot surfaces and sources of ignition. incompatible materials No materials to be especially mentioned. Hazardous decomposition products Toxic gases and fumes may be formed if product is involved in fire. Oxides of nitrogen.

## **11. Toxicological Information**

#### Information on Likely Routes of Exposure

Inhalation	May cause irritation of respiratory tract. HARMFUL IF INHALED.
Eye contact	Moderately irritating to the eyes.
Skin contact	Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.
Ingestion	MAY BE HARMFUL IF SWALLOWED.
Component Information	Oryzalin - In animals has been shown to cause liver, kidney, bladder, spleen, and/or blood effects. Repeated excessive exposure to crystalline silica may affect lung function and cause silicosis, a progressive and disabling disease of the lungs. Some evidence suggests that kidney effects may also result from excessive exposure. Glycerin: No skin allergy was observed in guinea pigs or humans following repeated exposure. Oral administration in clinical use has caused nausea and vomiting. Repeated or long-term oral exposure produced no adverse effects in rats. No adverse effects on fertility or birth defects were observed in rats or their offspring following oral exposure before and during pregnancy. Generally, no genetic changes were observed in tests using bacteria or animal cells. Single exposure studies indicate that this material is practically non-toxic if swallowed (rat LD50 12,600- 27,200 mg/kg) or absrobed through skin (rabbit LD50 >10,000 mg/kg), no more than slightly toxic if inhaled (rat 1 hr LC50 >0.57 mg/l), and slightly irritating to rabbit eyes and skin.
Chamical name	

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Oryzalin 19044-88-3	> 5000 mg/kg(Rat)	> 2000 mg/kg(Rabbit)	> 4.79 mg/L
Glycerin 56-81-5	-	> 10 g/kg(Rabbit)	570 mg/m³(Rat)1 h

## Information on Toxicological Effects

Symptoms

No information available.

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

sensitization Mutagenic effects Carcinogenicity	No information available. No information available. The information below indicates whether any agency has listed any ingredient as a carcinogen.
Reproductive effects	Not Available.
STOT - Single Exposure	No information available.
STOT - repeated exposure	No information available.
Target organ effects	kidney, Respiratory System, EYES, skin.
Aspiration hazard	No information available.

## Numerical Measures of Toxicity - Product information

The following values are calculated based on chapter 3.1 of the GHS document . 5290 mg/kg (rat) 1697.9 mg/kg (rat) 0 mg/l (mist) (dust) mg/m<sup>3</sup> 0 ml/m<sup>3</sup> (Vapor)

## **12. Ecological Information**

Marine Pollutant.

## ecotoxicity

#### Oryzalin:

Highly toxic to aquatic organisms LC50/EC50 between 0.1 and 1 mg/L in the most sensitive species. Slightly toxic to birds on an acute basis LD50 between 501 and 2000 mg/kg. Bobwhite quail acute oral LD50 1046 mg/kg Honeybee acute oral LD50 >100 ug/bee

## Persistence/Degradability

No information available.

#### **Bioaccumulation/ Accumulation**

Bioaccumulative potential.

Chemical name	Log Pow
Oryzalin 19044-88-3	> 2
Glycerin 56-81-5	-1.76

# 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. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. Do not apply directly to wetlands or water.
Contaminated packaging	Refer to product label.

## 14. Transport Information

DOT UN-No Proper shipping name Hazard class Packing group Marine Pollutant	When shipped domestically by highway in non-bulk containers this product can be shipped as not regulated. UN3082 Environmentally hazardous substance, liquid, n.o.s (Oryzalin) 9 PG III Marine Pollutant.
ICAO UN-No Proper shipping name Hazard class Packing group Description	UN3082 Environmentally hazardous substance, liquid, n.o.s (Oryzalin) 9 PG III Marine Pollutant

UN-No

UN3082

IATA

Proper shipping name Hazard class Packing group Description	Environmentally hazardous substances, liquid, n.o.s (Oryzalin) 9 PG III Marine Pollutant
IMDG/IMO	
UN-No	UN3082
Proper shipping name	Environmentally hazardous substances, liquid, n.o.s (Oryzalin)
Hazard class	9
Packing group	PG III
Marine Pollutant	Yes

## **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
	0/10/10/1

**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.

Keep out of Reach of Children. Causes moderate eye irritation. Prolonged or frequent repeated skin contact may cause allergic reaction in some individuals. Toxic to fish.

International Inventories	
USINV	

DSL/NDSL	Not determined
EINECS/	Does not comply
ELINCS	
ENCS	Does not comply
China	Does not comply
KECL	Does not comply
PICCS	Does not comply
AICS	Does not comply
TSCA	Does not comply

**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

Not determined

**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 contains a chemical or chemicals which are subject to the reporting requirements of the Act and and Title 40n of the Code of Federal Regulations, Part 372:

Chemical name	SARA 313 - Threshold Values
Oryzalin - 19044-88-3	1.0
SARA 311/312 Hazardous Categorization	

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

<u>CERCLA</u> SARA Product RQ

0

<u>RCRA</u> Pesticide Information

#### State Regulations

Component	CAS-No	CATEGORY	California Prop. 65	Non-additive, corrosive chemical type
Oryzalin 19044-88-3(40.4)	19044-88-3	Carcinogen	Carcinogen	

#### State Right-to-Know

Chemical name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Oryzalin		Х			
Glycerin	Х	Х	Х		

## International regulations

U.S. EPA Label information

EPA Pesticide registration number 70506-44

## **16. Other Information**

<u>NFPA</u>	HEALTH 0	flammability 1	Instability 0	Physical hazard -
Preparation Date Revision date Revision Summary Correct spelling error(s)		y-2015 v-2015		
Disclaimer	boliovos that the i	nformation and recommer	adations containor horo	in (including data and

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## End of MSDS