



# Safety Data Sheet

United Phosphorus, Inc.

Preparation Date 07-May-2015

Revision date 20-Nov-2018

Revision Number: 3

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

### Product identifier

Product Description: Surflan XL 2G

### Other means of identification

Product code RC-56A

UN-No UN3077

Registration number(s) 70506-45

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

Recommended use Herbicide.

Uses advised against Activities contrary to label recommendation

### 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)

Acute toxicity - Dermal	Category 5
Serious eye damage/eye irritation	Category 2B
Skin sensitization	Category 1

### Label elements

#### EMERGENCY OVERVIEW

#### **WARNING**

#### **Hazard Statements**

CAUSES EYE IRRITATION

May cause an allergic skin reaction

May be harmful in contact with skin



**Appearance** Light yellow Orange      **Physical state** Free flowing granules      **Odor** Slight aromatic

**Precautionary Statements - Prevention**

Wear protective gloves/protective clothing/eye protection/face protection

Do not eat, drink or smoke when using this product

Wash face, hands and any exposed skin thoroughly after handling

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

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**

- Toxic to aquatic life with long lasting effects
- May be harmful in contact with skin

**3. Composition/information on Ingredients**

Chemical name	CAS No	Weight-%
Oryzalin	19044-88-3	1
Earth clay	8031-18-3	>40

\*The exact percentage (concentration) 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>	Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice. Remove and wash contaminated clothing before re-use.
<b>Inhalation</b>	Call a physician or poison control center immediately. 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.
<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**      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 data available.

**Specific hazards arising from the chemical**

No information available.

**Hazardous combustion products** Carbon monoxide. Oxides of nitrogen. Irritating gases may be formed if product is involved in a fire.

**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**

**Personal Precautions** Avoid dust formation. 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** Sweep up and shovel into suitable containers for disposal. Follow all label instructions for disposal of residual material and/or empty containers.

## 7. Handling and Storage

**Precautions for safe handling**

**Handling** Keep out of reach of children. Avoid dust formation. Avoid contact with skin and eyes. Avoid breathing dust. Pesticide applicators and workers must refer to product labeling and directions for use. Wear personal protective equipment.

**Conditions for safe storage, including any incompatibilities**

**Storage** Keep in a dry, cool and well-ventilated place. Keep out of the reach of children.

**incompatible materials** No information available.

## 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.

**Skin protection**

Wear protective gloves/clothing.

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

## 9. Physical and Chemical Properties

### Information on basic physical and chemical properties

<b>Physical state</b>	Free flowing granules		
<b>Appearance</b>	Light yellow Orange	<b>Odor</b>	Slight aromatic
<b>color</b>	No information available		

<u>Property</u>	<u>VALUES</u>	<u>Remarks/ • Method</u>
<b>pH</b>	8	
<b>Melting point/freezing point</b>	no data available	
<b>Boiling Point/Range</b>	No information available	
<b>Flash Point</b>	No information available	
<b>Evaporation Rate</b>	No information available	
<b>Flammability (solid, gas)</b>	No information available	
<b>Flammability limit in air</b>		
<b>Upper Flammability Limit</b>	No information available	
<b>Lower Flammability Limit</b>	No information available	
<b>vapor pressure</b>	No information available	
<b>Vapor Density</b>	No information available	
<b>Specific gravity</b>	No information available	
<b>Water solubility</b>	No information available	
<b>Solubility in Other Solvents</b>	No information available	
<b>Partition coefficient: n-octanol/water</b>	No information available	
<b>Autoignition temperature</b>	no data available	
<b>Decomposition temperature</b>	No information available	
<b>Viscosity, kinematic</b>	No information available	
<b>Dynamic viscosity</b>	No information available	
<b>Explosive properties</b>	No information available	
<b>Oxidizing properties</b>	No information available	

### OTHER INFORMATION

<b>Softening point</b>	No information available
<b>molecular weight</b>	No information available
<b>VOC Content</b>	No information available
<b>Liquid Density</b>	No 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.

### Conditions to avoid

Avoid dust formation.

**incompatible materials**

No information available.

**Hazardous decomposition products**

Carbon monoxide. Oxides of nitrogen. Thermal decomposition can lead to release of irritating gases and vapours.

## 11. Toxicological Information

**Information on Likely Routes of Exposure**

**Product information**

XL 2G:  
Acute oral LD50 = >5,000 mg/kg  
Acute dermal LD50 = >2,000 mg/kg  
Acute inhalation LC50 = >5.8 mg/L (4 hr)  
Eye moderate irritant  
Skin Sensitizer

**Inhalation**

Avoid breathing vapors or mists.

**Eye contact**

Moderately irritating to the eyes.

**Skin contact**

May cause sensitization of 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.

**Information on Toxicological Effects**

**Symptoms**

No information available.

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

**Sensitization**

No information available.

**Mutagenic effects**

no data available.

**Carcinogenicity**

Teratology/ reproductive effects:  
Oryzalin did not cause birth defects in laboratory animals. Other fetal effects occurred only at doses to the mother.

Oryzalin did not interfere with reproduction in animal studies

**Reproductive effects**

Mutagenicity:  
For oryzalin: in-vitro and animal mutagenicity studies were negative. For crystalline silica; in-vitro mutagenicity studies were negative in some cases and positive in other cases.

**STOT - Single Exposure**

Not Available.

**STOT - Repeated Exposure**

no data available.

**Aspiration hazard**

No information available.

**Numerical Measures of Toxicity - Product information**

**LD50 Oral**

> 5000 mg/kg (rat)

**LD50 Dermal**

> 2000 mg/kg (rat)

**LC50 Inhalation**

LC50/inhalation/4h/rat = > 5.8 mg/l

## 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 data available.

### Bioaccumulation/ Accumulation

Bioaccumulative potential.

Chemical name	Log Pow
Oryzalin 19044-88-3	> 2

### 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

### DOT

Not regulated when shipped domestically by highway in non-buk containers as per 49 CFR 171.4

#### **UN-No**

When shipped in bulk, by vessel, or internationally use the IMDG shipping description:

#### **Proper shipping name**

UN3077

#### **Hazard class**

Environmentally hazardous substances, solid, n.o.s (Oryzalin)

#### **Packing group**

9

#### **Marine Pollutant**

PG III

Marine Pollutant.

### ICAO

#### **UN-No**

UN3077

#### **Proper shipping name**

Environmentally hazardous substance, solid, n.o.s (Oryzalin)

#### **Hazard class**

9

#### **Packing group**

PG III

#### **Description**

Marine Pollutant

**IATA**

<b>UN-No</b>	UN3077
<b>Proper shipping name</b>	Environmentally hazardous substances, solid, n.o.s (Oryzalin)
<b>Hazard class</b>	9
<b>Packing group</b>	PG III
<b>Description</b>	Marine Pollutant

**IMDG/IMO**

<b>UN-No</b>	UN3077
<b>Proper shipping name</b>	Environmentally hazardous substances, solid n.o.s.
<b>Hazard class</b>	9
<b>Packing group</b>	PG III
<b>Marine Pollutant</b>	Yes

<b>15. Regulatory Information</b>
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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.

**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 and aquatic invertebrates.**

**International Inventories**

<b>USINV</b>	Present
<b>DSL/NDSL</b>	Not present
<b>EINECS/ELINCS</b>	Not Present
<b>ENCS</b>	Not Present
<b>China</b>	Not Present
<b>KECL</b>	Present
<b>PICCS</b>	Not Present
<b>AICS</b>	Present
<b>TSCA</b>	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**

Y

<b>Acute health hazard</b>	yes
<b>Chronic health hazard</b>	NO
<b>Fire hazard</b>	No
<b>Sudden release of pressure hazard</b>	No

Reactive Hazard

No

**CERCLA**

Not applicable

**CERCLA****RCRA****Pesticide Information****State Regulations**

Component	CAS No	CATEGORY
Oryzalin 19044-88-3 ( 1 )	19044-88-3	Carcinogen

**Prop 65 Pictogram****Prop 65 Warning Statement****California Proposition 65****WARNING!**

This product can expose you to chemicals including those listed below, which is [are] known to the State of California to cause cancer, birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

Component	California Prop. 65	Non-additive, corrosive chemical type
Oryzalin 19044-88-3 ( 1 )	Carcinogen	

**State Right-to-Know**

Not applicable

**International regulations****U.S. EPA Label information**

EPA Pesticide registration number 70506-45

**16. Other Information****NFPA**

HEALTH 1

flammability 0

Instability 0

Physical hazard -

Preparation Date

07-May-2015

Revision date

20-Nov-2018

Revision Summary

Add Prop 65 statement

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**End of SDS**