

# **Safety Data Sheet**

Preparation Date 07-May-2015 Revision date 02-Jan-2019 Revision Number: 4

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

Product identifier

Product Description: Surflan AS Specialty

Other means of identification

 Product code
 12U-125

 UN/ID no.
 UN3082

 Registration number(s)
 70506-44

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** 

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 - Inhalation (Dusts/Mists)

Category 4

#### 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-%
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**

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**Take off contaminated clothing. Wash off immediately with plenty of water for at least 15

minutes. Call a poison control center or doctor for treatment advice. Wash face, hands and

any exposed skin thoroughly after handling.

**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

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 Oxides 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

Personal Precautions Avoid contact with skin and eyes. Use personal protective equipment. Wear protective

gloves/protective clothing and eye/face protection. Wash thoroughly after handling.

**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** 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

Storage Keep out of the reach of children. Keep containers tightly closed in a cool, well-ventilated

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/m³ mist, total particulate TWA: 5 mg/m³ mist, respirable
		fraction
		(vacated) TWA: 10 mg/m³ mist, total particulate (vacated) TWA: 5 mg/m³
		mist, respirable fraction

**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. 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.

Personal protective equipment

Eye/Face Protection V

Where there is potential for eye contact have eye flushing equipment available. Use eye

protection to avoid eve contact.

Skin protection

Respiratory protection

Long sleeved clothing. Long pants. Socks and footwear.

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

Slight aromatic

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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

Odor

Remarks/ • Method

#### Information on basic physical and chemical properties

Physical state Liquid

Appearance Opaque Orange

**color** No information available

<u>Property</u> <u>VALUES</u>

**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/waterNo information available **Autoignition temperature** no data available **Decomposition temperature** No information available Viscosity, kinematic No information available **Dynamic viscosity** No information available

Explosive properties

Oxidizing properties

No information available

No information available

# **OTHER INFORMATION**

Softening point
molecular weight
VOC Content
Liquid Density

No information available
No information available
No information available
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**

Keep away from open flames, hot surfaces and sources of ignition.

## incompatible materials

No materials to be especially mentioned.

#### Hazardous decomposition products

Amonia. Oxides of nitrogen.

## 11. Toxicological Information

#### Information on Likely Routes of Exposure

**Product information** Surflan

EYE: May cause moderate eye irritation with slight corneal injury.

SKIN: Prolonged or repreated skin exposure not likely to cause significant irritation. Did not produce allergic skin reaction in guinea pigs. LD50 skin absorption for rabbits is >5,000

INGESTION: Single dose oral toxicity is low. The oral LD50 for rats is >5000 mg/kg. INHALATION: Dust may cause irritation to the upper respiratory tract (nose and throat) The

LC50 for rats is >4.1 mg/L for 4 hours.

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.

MAY BE HARMFUL IF SWALLOWED. Ingestion

**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

eves and skin.

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

carcinogen. Not Available.

Reproductive effects no data available. **STOT - Single Exposure STOT - Repeated Exposure** no data 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 .

LD50 Oral > 5000 mg/kg (rat) > 5000 mg/kg (rat) LD50 Dermal

> 20 mg/l LC50 Inhalation

## 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	> 2
19044-88-3	
Glycerin 56-81-5	-1.76
56-81-5	

## **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. 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**When shipped domestically by highway in non-bulk containers this product can be shipped

as not regulated.

UN/ID no. UN3082

Proper shipping name Environmentally hazardous substance, liquid, n.o.s (Oryzalin)

Hazard class 9
Packing group PG III

IMDG - Marine Pollutant Marine Pollutant.

ICAO

#### 12U-125 Surflan AS Specialty

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UN/ID no. UN3082

Proper shipping name Environmentally hazardous substance, liquid, n.o.s (Oryzalin)

Hazard class 9
Packing group PG III

**Description** IMDG - Marine Pollutant

**IATA** 

UN/ID no. UN3082

Proper shipping name Environmentally hazardous substances, liquid, n.o.s (Oryzalin)

Hazard class 9
Packing group PG III

**Description** IMDG - Marine Pollutant

**IMDG** 

UN/ID no. UN3082

Proper shipping name Environmentally hazardous substances, liquid, n.o.s (Oryzalin)

Hazard class 9
Packing group PG III
Environmental hazards 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

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 Not 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
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 contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations. Part 372:

**CERCLA** 

Not applicable

CERCLA

SARA Product RQ 0

**RCRA** 

**Pesticide Information** 

#### State Regulations

Component	CAS No	CATEGORY
Oryzalin	19044-88-3	Carcinogen
19044-88-3 ( 40.4 )		

**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

Component	California Prop. 65	Non-additive, corrosive chemical type
Oryzalin	Carcinogen	
19044-88-3 ( 40.4 )		

#### State Right-to-Know

Not applicable

International regulations

U.S. EPA Label information

EPA Pesticide registration number 70506-44

# 16. Other Information

NFPA HEALTH 0 flammability 1 Instability 0 Physical hazard -

Preparation Date 07-May-2015
Revision date 02-Jan-2019
Revision Summary

Update logo Update section 1 Update Section 16\*\*\*

<u>Disclaime</u>

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**End of SDS**