

Safety Data Sheet

Preparation Date 07-May-2015 Revision date 07-May-2015 Revision Number: 1

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

Product identifier

Product Description: Surflan Pro

Other means of identification

 Item#:
 12U-125

 UN-No
 UN3082

 Synonyms
 Not Available

 Registration number(s)
 70506-44-72159

Recommended use of the chemical and restrictions on use

Recommended use Herbicide.

Uses advised against Activties contrary to label recomendation

Details of the Supplier of the Safety Data Sheet

Supplier Address Agrisel USA, Inc. PO Box 3528 Suwanee, GA 30024

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 %	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

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 contactTake 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.

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 information 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 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

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

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

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

protection to avoid eye contact.

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 liquid

appearance opaque orange Odor Slight aromatic

color No information available

<u>Property</u> <u>VALUES</u> <u>Remarks/ • Method</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 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

Softening point
molecular weight
VOC Content
density
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

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.

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.

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

Information on Toxicological Effects

Symptoms No information available.

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

sensitizationNo information available.Mutagenic effectsNo information available.

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

carcinogen.

Reproductive effects Not Available.

STOT - Single Exposure
STOT - repeated exposure
No information available.
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/m³ 0 ml/m³ (Vapor)

12. Ecological Information

Marine Pollutant.

ecotoxicity

Orvzalin:

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

as not regulated.

UN-No UN3082

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

Hazard class Packing group PG III

Marine Pollutant. **Marine Pollutant**

ICAO

UN-No UN3082

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

Hazard class Packing group

PG III

Marine Pollutant Description

IATA

UN3082 **UN-No**

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

Hazard class 9

Packing group PG III

Description 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

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 determined 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

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 hazardyesChronic health hazardNOFire hazardNoSudden release of pressure hazardNoReactive HazardNo

CERCLA

SARA Product RQ 0

RCRA

Pesticide Information

Component	FIFRA - Restricted Use	FIFRA - Pesticide Product Other Ingredients	FIFRA - Listing of Pesticide Chemicals	California Pesticides - Restricted Materials
Oryzalin 19044-88-3 (40.4)			Х	
Glycerin 56-81-5 (<30)			Х	

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		X			
Glycerin	Х	X	Х		

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 Revision date Revision Summary Update to GHS format 07-May-2015 07-May-2015

End of MSDS