



GreenFurrow Soil Rx SAFETY DATA SHEET

Section 1: Identification of the substance/mixture and of the company/undertaking

- 1.1. **Identification** : YUCCA SCHIDIGERA EXTRACT
Product name : GreenFurrow SoilRx
CAS number : 223749-05-1
USA (FDA) : 21 CFR 172.510. FEMA GRAS NUMBER 3121.
- 1.2. **Relevant identified uses of substance or mixture and uses advised against.**
Natural foaming agent, wetting agent, surfactant, and flavoring agent.
- 1.3. **Details of supplier for the safety data sheet.**
Mar Vista Resources
745 North Ave
Corcoran, Ca 93212
- 1.4. **Emergency telephone number.**
(619) 429-5222

Section 2: Hazards identification

- 2.1. **Product definition:**
Yucca schidigera water based extract.
- 2.2. **Classification of the substance or mixture.**
According to Directive criteria, 1999/45/EC and 67/548/EEC the following amendments thereof:
- | | |
|------------------|-----------------------------------------------------------------------------------------------------|
| Xi | : Irritant. |
| R Phases | : R36 Irritating to eyes. |
| S Phrases | : S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. |

Regulation criteria 1272/2008 (CLP/GHS):



- : warning.
- Hazard Statements** : H320. Causes eye irritation.

Precautionary Statements:

- P264 : Wash with water the parts of your body that had contact with the product.
- P280 : Wear protective gloves/protective clothing/eye protection/face protection.



P305+P351+P338 : IF IN EYES. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so, continue rinsing.

P314 : Get medical advice/attention if you feel unwell.

P362 : Take off contaminated clothing and wash before reuse.

P501 : Dispose of contents/container in accordance with applicable regulations.

Special Provisions : None

Adverse physicochemical, human health and environmental effects:

No other hazards

2.3 Other hazards : None known by Desert King International

SECTION 3: Composition/information on ingredients

3.1. Product name : GreenFurrow Soil Rx

3.2. Identifier : YUCCA SCHIDIGERA EXTRACT

CAS number: 223749-05-1

USA FDA 21 CFR 172.510.

FEMA GRAS NUMBER 3121

Classification : Liquid

Additives : None

Purity : Not less than 99.9 % YUCCA SCHIDIGERA EXTRACT.

Section 4. First aid measures

4.1. Description of first aid measures

In case of skin contact : Rinse skin with water/shower, take off contaminated clothing and wash before reuse.

In case of eyes contact : Rinse cautiously with water for several minutes. In case of irritation, seek medical advice.

In case of ingestion : If swallowed, wash out mouth with water; never give anything by mouth to an unconscious person.

In case of inhalation: First aid is not normally required.

4.2. Most important symptoms and effects, both acute and delayed

Skin contact : May cause irritation.

Eyes contact : Causes eye irritation.

Ingestion : May cause irritation to mouth, throat and stomach.

Inhalation : May cause irritation to respiratory system when heated at 60 °C or above.

4.3. Indication of any immediate medical attention and special treatment needed

If after applying the first aid measures, the person feels unwell go to the doctor/physician.



Section 5: Fire-Fighting Measures

5.1 Extinguishing media

Suitable extinguishing media : Not applicable because not a flammable liquid.

Unsuitable extinguishing media : Not applicable because not a flammable liquid.

5.2 Special hazards arising from the substance or mixture

This product does not undergo spontaneous decomposition. Typical combustion products are carbon monoxide, carbon dioxide, nitrogen and water.

5.3 Advice for fire-fighters

Irritant, nonflammable, water soluble, upon contact with water pressure generates foam. Do not inhale gases created by fire.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear rubber gloves, mask and protective lens during spill containment. All clothes used during spill containment should be washed to prevent eye or skin contact.

6.2. Environmental precautions

Prevent discharge into environment.

Do not discharge into rivers, lakes or sea.

6.3. Methods and material for containment and cleaning up

Contain spills and leaks with any environmentally friendly commercial absorbent. Sweep up or vacuum up spillage and collect product in suitable container for disposal. Rinse residue with water.

Section 7: Handling and Storage

7.1. Precautions for safe handling

Use suitable protective clothing; wear rubber gloves and protective lens during product handling. Wash hands after use.

7.1.1. Instruction for fire-and explosion protection

No special actions necessary.

7.2. Conditions for safe storage including any incompatibilities

Avoid direct sunlight. Store in a dry place at 5 to 25°C and ventilated area. Keep tightly closed.

7.2.1. Further instructions for stock-keeping

None

7.2.2. Storage class

Non-reactive and very stable.

7.3. Specific end use (s):

Surfactant, natural foaming and wetting agent.



Section 8: Exposure Controls/Personal Protection

8.1. Control parameters

Not listed in IFA database.

8.2. Exposure controls:

Eye protection	:	Wear safety goggles
Protection for skin	:	Use suitable protective clothing
Protection for hands:	:	Wear safety-gloves
Thermal hazards:	:	None
Environmental exposure controls	:	Have available spill/leaks absorbent materials.

Section 9: Physical and Chemical Properties

9.1. Information on basis physical and chemical properties

Appearance and color	:	Liquid, reddish to dark brown
Odor	:	Characteristic, sweet
Odor threshold	:	Not applicable
pH	:	3.7-4.1
Melting point/freezing point	:	Not available
Initial boiling point and boiling range	:	P = 1atm, the b.p. is 103 ° to 107 °C.
Solid/gas flammability	:	Not applicable
Upper/lower flammability or explosive limits	:	Not applicable
Vapor density	:	Not available
Flash point	:	Not available
Evaporation rate	:	Not available
Vapor pressure	:	Not available
Relative density	:	Not less than 1.212
Solubility in water	:	99.9 %
Lipid solubility	:	Not applicable
Partition coefficient (n-octanol/water)	:	Not applicable
Auto-ignition temperature	:	Not applicable
Decomposition temperature	:	Not available
Viscosity	:	62.5 centipoise at 71 °F
Explosive properties	:	Product does not explode
Oxidizing properties	:	Not available

9.2. Other information

No additional information.



Section 10. Stability and Reactivity

10.1. Reactivity

No specific test data related to reactivity is available for this product or its ingredients.

10.2. Chemical stability

The product is stable under recommended storage conditions.

10.3. Possibility of hazard reactions

None known to Desert King international under normal conditions of storage and handling.

10.4. Conditions to avoid

None.

10.5. Incompatible materials

None known to Desert King International.

10.6. Hazardous decomposition products

None known to Desert King International.

Section 11: Toxicological Information

11.1. Information on toxicological effects

There is no toxicological data available on the product.

11.2. Toxicological information on main components of the mixture:

Not available.

Section 12: Ecological Information

12.1. Toxicity

Not available.

12.2. Persistence and degradability

Not known to Desert King International.

12.3. Bioaccumulative potential

Yucca Extract is expected to desorb fairly rapidly from soil and not bioaccumulate.

12.4. Mobility in soil

Yucca Extract is expected to desorb fairly rapidly from soil.

12.5. Results of PBT and vPvB assessment

Substance not listed in ESIS PBT List.

12.6. Other adverse effects

Not known to Desert King International.



Section 13: Disposal Considerations

13.1. Waste treatment methods

Dispose of in accordance to all local regulations.

Section 14: Transport Information

14.1. No limitations to transport known

Product is not flammable, not corrosive, not explosive and not radioactive.

Section 15: Regulatory Information

15.1. Regulatory status

The Dangerous Substance Directive (Directive 67/548/EEC, "DSD"), the Dangerous Preparations Directive (Directive 1999/45/EC, "DPD") and the new Regulation classification, labeling and packaging of substances and mixtures, Regulation (EC) No 1272/2008 ("CLP Regulation" or "CLP").

USA-FDA Title 21 CFR 172.510. Flavoring agents and related substances. FEMA GRAS number 3121.

15.2. Chemical safety assessment

Health Hazard

- 4. Deadly
- 3. Extreme danger
- 2. Hazardous
- 1. Slightly hazardous
- 0. Normal material

Specific Hazard

ACID - Acid
ALK - Alkali
COR - Corrosive
OXY - Oxidizer
P - Polymerization
RAD - Radioactive
N/W Use no water



Fire Hazards - Flash Points

- 4. Below 23°C
- 3. Below 38°C
- 2. Above 38°C not exceeding 93°C
- 1. Above 93°C
- 0. Will not burn

Reactivity

- 4. May detonate
- 3. Shock and heat may detonate
- 2. Violent chemical change
- 1. Unstable if heated
- 0. Stable

Section 16: Other Information

This safety data sheet cannot cover all possible situations which the user may experience during handling. Each aspect of operation should be examined to determine if, or where, additional precautions may be necessary. All health and safety information contained in this bulletin should be provided to employees or customers.

Rev.01. February 18, 2016.



Abbreviations and acronyms

b.p.	Boiling point
CAS	Chemical Abstract Service
CEN	European Committee for Standardization
CFR	Code of Federal Regulations
CLP	Classification, Labeling and Packaging
DPD	Dangerous Preparations Directive
DSD	Dangerous Substance Directive
EC	European Communities
EEC	European Economic Community
EINECS	European Inventory of Existing Commercial Chemical Substances
ESIS	European chemical Substances Information System
FDA	US Food and Drug Administration
FEMA	Flavor and Extract Manufacturers Association
GHS	Globally Harmonized System
GRAS	Generally Recognized as Safe
IFA	Institut für Arbeitsschutz der Deutschen Gesetzlichen Unfallversicherung
NIOSH	National Institute for Occupational Safety and Health
P	Pressure
PBT	Persistent, Bioaccumulative and Toxic