

RhizoSolutions SGA2020

Version 2.0

Revision Date 01/15/2021

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SECTION 1. IDENTIFICATION**1.1 Product identifier:** RhizoSolutions SGA2020**1.2 Relevant identified uses of the substance:** Surfactant, wetting agent, detergent**1.3 Identification of the company** Rhizolutions LLC
565 Research Drive
Athens, GA 30605 USAInformation on the substance:
+1-609-841-2078**1.4 Emergency Tel. No.** +1-609-841-2078**SECTION 2. HAZARDS IDENTIFICATION****2.1 Classification of the substance or mixture****GHS classification in accordance with 29 CFR 1910.1200**

Serious Eye Damage: Category 1

2.2 GHS label elements

Hazard pictograms:



Signal word: Danger

Hazard statements: Causes serious eye damage

Precautionary statements: Prevention:
Wear eye protection/face protectionResponse:
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a POISON CENTER or doctor/physician.

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2.3 Other hazards which do not result in classification

May cause skin irritation

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**3.1 Substance/Mixture****3.2 Hazardous ingredients**

Chemical Name	CAS No.	GHS Classification	Concentration (% wt/wt)
Caprylyl Capryl Wheat Bran/Straw Glycosides	CAS 1235391-18-0	Eye Damage – H318	58-62

Any concentration shown as a range is to protect confidentiality or is due to batch variation

SECTION 4: FIRST AID MEASURES**4.1 Description of first aid measures****General advice:** Remove/takeoff contaminated clothing immediately.**Inhalation:** If inhaled, remove to fresh air. Consult a physician if irritating symptoms develop and persist.**Skin contact:** In case of contact, immediately flush skin with plenty of water. Get medical attention if irritation develops or persists. Wash contaminated clothing before re-use.**Eye contact:** In case of contact with eyes, rinse immediately with plenty of water and seek medical attention.**Ingestion:** Do not induce vomiting without medical advice immediate medical attention is required. Vomiting may occur spontaneously. Seek medical advice.**4.2 Most important symptoms and effects, both acute and delayed****Symptoms after inhalation:** Inhalation of product may aggravate existing chronic respiratory problems such as asthma, emphysema, or bronchitis.**Symptoms after skin contact:** Skin contact may aggravate existing skin disease.

4.3 Indication of any immediate medical attention and special treatment needed

Note to physician: Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES**5.1 Extinguishing media**

Suitable extinguishing media: Foam, dry chemical, CO₂, water spray

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting: In case of fire hazardous decomposition products may be produced such as:
Carbon monoxide
Carbon dioxide (CO₂)

Further information: Cool endangered containers with water spray.

5.3 Advice for firefighters

Special protective equipment: Firefighters should wear approved self-contained breathing apparatus and full protective clothing.

Further information: Standard procedure for chemical fires. Collect contaminated fire extinguishing water separately. This must not be discharged in drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: ACCIDENTAL RELEASE MEASURES**6.1 Personal precautions, protective equipment, and emergency procedures.**

Wear suitable protective equipment. For further information, see Section 7 "Exposure Controls/Personal Protection".

6.2 Environmental precautions

Do not flush into surface water or sanitary sewer system. Take all necessary measures to avoid accidental discharge of products into drains and waterways due to the rupture of containers or transfer systems. Spills should be reported to local agencies.

6.3 Methods and materials for containment and cleanup

Methods of containment:	Stop leak if safe to do so. Dam up with sand or inert earth (do not use combustible materials).
Recovery:	Soak up with inert absorbent materials. Shovel or sweep up. Keep in suitable, closed container for disposal. Never return spills to original containers for re-use.
Decontamination:	Clean contaminated surface thoroughly. Wash non-recoverable remainder with large amounts of water. Recover the cleaning water for subsequent disposal. Decontaminate tools, equipment and personal protective equipment in a segregated area.
Disposal:	Dispose of in accordance with local regulations.

6.4 References to other sections

See Section 7 for Handling and Storage.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling of the substance/mixture

Technical measures:	Provide adequate ventilation.
Advice on safe handling and usage:	Avoid inhalation of vapor or mist. Avoid contact with skin and eyes.
Hygiene measures:	Personal hygiene is an important workplace practice exposure control measure and the following general measures should be taken when working with or handling this material: <ol style="list-style-type: none">1) Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored.2) Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet.3) Wash exposed skin promptly to remove accidental splashes or contact with material.

7.2 Conditions for safe storage, including and incompatibilities.

Storage: Keep containers tightly closed in a cool, well ventilated place. Keep out of reach of children. Keep in properly labeled containers.

7.3 Specific end use(s)

See Section 1

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1 Components with workplace control parameters**

Contains no substances with occupational exposure limit values

8.2 Hazardous components without workplace control parameters

Chemical Name	CAS No.
Caprylyl Capryl Wheat Bran/Straw Glycosides	CAS 1235391-18-0

8.4 Personal protective equipment

Respiratory protection: Wear NIOSH approved particulate filtering respirator rated N, R, P95, or 100 or equivalent in the absence of proper environmental control. Type of respirator depends on the level of exposure.

Hand protection: PVC disposable gloves, Rubber gloves

Eye protection: Safety glasses with side-shields

Skin and body protection: Wear suitable protective clothing.
PVC boots – depending on the operation, consider using PVC boots it steel toe caps.

Hygiene measures: When using, do not eat, drink, or smoke. Remove any contaminated clothing immediately and wash before reuse. Observe the usual precautions for handling chemicals.

SECTION 9: CHEMICAL AND PHYSICAL PROPERTIES**9.1 Information on basic physical and chemical properties**

Physical state:	Liquid. Viscous
Color:	Yellow to Orange
Odor:	Characteristic Sweet
Odor Threshold:	Not Determined
pH:	4-8
Melting point (decomposition):	No data available
Boiling point:	>100 C
Flash point:	>100 C
Evaporation rate:	No data available
Flammability (solid, gas):	Not applicable
Upper explosion limit:	No data available
Lower explosion limit:	No data available
Vapor pressure:	No data available
Relative vapor density:	No data available
Relative density:	No data available
Density:	1.15 g/cm ³
Bulk Density:	No data available
Solubility(ies)	
Water solubility	Soluble
Partition coefficient: n- Octanol/water	This property not applicable for mixtures
Auto-ignition temperature:	>200 C
Decomposition temperature:	No data available
Viscosity	
Viscosity, dynamic:	No data available
Viscosity, kinematic:	No data available

SECTION 10: STABILITY AND REACTIVITY

- 10.1 Reactivity:** See section 10.3 "Possibility of hazardous reactions".
- 10.2 Chemical stability:** Stable under recommended conditions.
- 10.3 Possibility of hazardous reactions:** No dangerous reactions known under normal use.
Stable under recommended storage conditions.
- 10.4 Conditions to avoid:** Keep away from heat and sources of ignition.
- 10.5 Incompatible materials:** Strong acids. Strong oxidizing agents.
- 10.6 Hazardous decomposition products:** When handled and stored appropriately, no dangerous decomposition products are known.

SECTION 11: TOXICOLOGICAL INFORMATION**11.1 Information on toxicological effects****Acute toxicity****Product:****Acute oral toxicity:**

Acute toxicity estimate: 5000 mg/kg
Method: Calculation method

Acute inhalation toxicity:

No data available. No information on acute inhalation toxicity was found in the specialized literature

Acute dermal toxicity:

Acute toxicity estimate: >5000 mg/kg

Skin corrosion/irritation:

No skin irritation
Method: Evaluated according to GHS (Globally Harmonized Criteria)

Serious eye damage/irritation:

Risk of serious damage to eyes
Method: Evaluated according to GHS (Globally Harmonized Criteria)

Respiratory or skin sensitization:

Not sensitizing

Mutagenicity:

Genotoxicity in vitro:

No data available

Genotoxicity in vivo:

No data available

Carcinogenicity:

No data available

Toxicity for reproduction and development:

Toxicity to reproduction/fertility:

No data available

Developmental toxicity/teratogenicity:

No data available

SECTION 12: ECOLOGICAL INFORMATION**12.1 Ecotoxicity**

Ecology – general:

According to literature: No environmental hazard

Ecology – air:

No data available

Ecology – water:

No bioaccumulation data available

12.2 Persistence and degradability

Readily biodegradable

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects

Short term toxicity on invertebrates (EC50 on mg/l) :	11.96
Growth inhibition study aquatic plants (EC50 on mg/l) :	21
LC50 (mg/l) Short term toxicity on fish :	101 mg/L
In vitro cytogenicity study in mammalian cells :	Negative (not mutagenic)
Toxicokinetics :	Readily cleavage
Activated sludge respiration inhibition :	EC0 = 200mg/L
Long term toxicity on invertebrates :	NOEC (21days) = 1 mg/L
Long term toxicity on fish :	NOEC (28 days) = 1.8 mg/L
Short term toxicity to soil invertebrates :	NOEC (14 days) > 654 mg/Kg
Short term toxicity to plants :	NOEC (21 days) > 654 mg/kg

SECTION 13: DISPOSAL CONSIDERATIONS**13.1 Disposal methods**

RCRA – Resource Conservation and Recovery Authorization Act: This product, if discarded as sold, is not a Federal RCRA hazardous waste

Waste code: None

Advice on disposal: Chemical additions, processing, or otherwise altering this material may make waste management information presented in this SDS incomplete, inaccurate or otherwise inappropriate. Please be advised that local requirements for disposal may be more restrictive or otherwise different from federal laws and regulations. Consult local regulations regarding proper disposal of this material.

Contaminated containers: Rinse with appropriate solvent. Dispose of contents/container in accordance with local regulations.

SECTION 14: TRANSPORT INFORMATION

DOT	Not restricted
IATA	Not Restricted
IMDG	Not restricted

SECTION 15: REGULATORY INFORMATION**15.1 Safety legislation specific for the substance or mixture****15.1.1 National regulations**

No information available

15.2 Chemical safety assessment

No information available

SECTION 16: OTHER INFORMATION**More information****Abbreviations**

ADR:	European Agreement Concerning the International Carriage of Dangerous Goods by Road
IMDG:	International Maritime Code for Dangerous Goods
LC50:	Lethal Concentration 50%
LD50:	Lethal Dose 50%
EC50:	Effective Dose 50%
CLP:	Classification, Labeling and Packaging
CAS:	Chemical Abstract Service
RID:	Regulations Concerning the International Carriage of Dangerous Goods by Rail
IATA:	International Air Transport Association Dangerous Goods Regulations
GHS:	Globally Harmonized System (GHS) of Labeling Chemical Products
IARC:	International Agency for Research on Cancer
DOT:	US Department of Transportation

Version:	1.0
Previous version:	None
Reason for revision:	

The information in this SDS, to our knowledge, is accurate at the data of publication. This information is intended as a guide for safe handling, use, processing, storage, transportation, disposal and release, and is not to be considered a guarantee or indication of quality. The information relates only to the specific material and may not be valid in combination with other products or used in any process, unless specified in the text.