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**1. PRODUCT AND COMPANY IDENTIFICATION**

<b>Product Name</b>	Rhamnosides C12 Dodecyl Rhamnoside
<b>Product Number</b>	RhE-C12
<b>Supplier</b>	GlycoSurf, LLC 825 N 300 W, Suite WA011 Salt Lake City, UT 84103
<b>Telephone</b>	(435) 901-1839
<b>Email</b>	info@glycosurf.com

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**2. COMPOSITION, INFORMATION OR INGREDIENTS**

<b>Ingredients</b>	Dodecyl Rhamnoside >95% Water <1-2%
<b>Hazardous Ingredients</b>	1-Decanol ~2%

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**3. HAZARDS IDENTIFICATION**

<b>Eye Irritant</b>	Irritating to eyes. Risk of damage to eyes.
<b>Skin Irritant</b>	None.
<b>Avoid Ingestion</b>	May be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhea.
<b>Avoid Inhalation</b>	May be harmful if inhaled. Irritating to respiratory system.

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**4. FIRST AID MEASURES**

<b>General advice</b>	Consult a physician. Show this safety data sheet to the doctor in attendance.
<b>If inhaled</b>	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
<b>In case of skin contact</b>	Wash off with plenty of water.
<b>In case of eye contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician

**If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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**5. FIREFIGHTING MEASURES****Conditions of flammability**

Not flammable or combustible.

**Hazardous combustion products**

Nature of decomposition products not known.

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**6. ACCIDENTAL RELEASE MEASURES****Personal precautions**

Ensure adequate ventilation. Use personal protective equipment.

**Environmental precautions**

Avoid introducing concentrated solution down drains.

**Methods and materials for containment and clean up**

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal. Ventilate area. Wash skin immediately with plenty of water.

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**7. HANDLING AND STORAGE****Precautions for safe handling**

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

**Conditions for safe storage**

Product is slightly hygroscopic and should be stored in a dry area to prevent moisture pick up. Store in a cool, dark, dry location.

**Recommended storage temperature**

Room temperature or below.

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**8. EXPOSURE CONTROLS AND PERSONAL PROTECTION****Eye protection**

Use equipment for eye protection tested and approved under appropriate government standards, such as NIOSH (US) and EN 166 (EU).

<b>Hand protection</b>	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
<b>Skin and body protection</b>	The type of protective equipment and impervious clothing must be selected according to the concentration and amount of dangerous substance at the specific workplace.
<b>Hygiene measures</b>	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the work day.
<b>Respiratory protection</b>	The type of protective equipment must be selected according to the concentration and amount of dangerous substance at the specific workplace. For higher level protection, use respirators and components tested and approved under appropriate government standards, such as NIOSH (US) and CEN (EU).

### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Thick Gel
<b>Color</b>	Clear or pale-yellow/tan
<b>Molecular formula</b>	$C_{18}H_{36}O_5$
<b>Molecular weight</b>	332.48
<b>Density (Predicted)</b>	$1.25 \pm 0.1 \text{ g/cm}^3$   at Temp: 20 °C Press: 760 Torr
<b>pH</b>	~9.00
<b>Melting point/freezing point</b>	No data available
<b>Boiling point</b>	$495.7 \pm 45.0 \text{ }^\circ\text{C}$   at Press: 760 Torr
<b>Flash point</b>	$179.9 \pm 22.2 \text{ }^\circ\text{C}$
<b>Ignition temperature</b>	No data available
<b>Autoignition temperature</b>	No data available
<b>Lower explosion limit</b>	No data available
<b>Upper explosion limit</b>	No data available
<b>Vapor pressure</b>	$6.66\text{E-}12 \text{ Torr}$ at Temp: 25 °C

<b>Water solubility</b>	Soluble
<b>Partition coefficient: n-octanol/water</b>	No data available
<b>Relative vapor density</b>	No data available
<b>Odor</b>	Mild; sweet
<b>Odor threshold</b>	No data available
<b>Evaporation rate</b>	No data available

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**10. STABILITY AND REACTIVITY**

<b>Chemical stability</b>	Stable under recommended storage conditions.
<b>Possibility of hazardous reactions</b>	No data available
<b>Conditions to avoid</b>	No data available
<b>Materials to avoid</b>	Strong oxidizing agents. Strong reducing agents. Excess heat.
<b>Hazardous decomposition products</b>	Nature of decomposition products not known.

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**11. TOXICOLOGICAL INFORMATION**

<b>Acute Toxicity</b>	<b>Oral LD50</b> LD50 oral (rat) >5000 mg/kg
	<b>Inhalation LD50</b> No data available
	<b>Dermal LD50</b> No data available
	<b>Other information on acute toxicity</b> No data available
<b>Skin corrosion/irritation</b>	No data available
<b>Serious eye damage/eye irritation</b>	Primary eye irritation (rabbit) 1% concentration is minimally irritating;

	9.5% concentration is corrosive
<b>Respiratory or skin sensitization</b>	No data available
<b>Germ cell mutagenicity</b>	No data available
<b>Carcinogenicity</b>	No data available
<b>Reproductive toxicity</b>	No data available
<b>Teratogenicity</b>	No data available
<b>Specific target organ toxicity – single exposure (GHS)</b>	No data available
<b>Specific target organ toxicity – repeated exposure (GHS)</b>	No data available
<b>Aspiration hazard</b>	No data available
<b>Potential health effects</b>	<p><b>Inhalation</b> May be harmful if inhaled.</p> <p><b>Ingestion</b> May be harmful is ingested.</p> <p><b>Skin</b> May be harmful if absorbed through the skin. May cause skin irritation.</p> <p><b>Eyes</b> May cause eye irritation.</p>
<b>Signs and symptoms of exposure</b>	To the best of our knowledge, the toxicological properties of this compound have not been fully investigated.
<b>Synergistic effects</b>	No data available
<b>Additional information</b>	Not available

**12. ECOLOGICAL INFORMATION**

<b>Toxicity</b>	No data available
<b>Persistence and degradability</b>	Readily biodegradable

**Bioaccumulative potential** No data available

**Mobility in soil** No data available

**PBT and vPvB assessment** No data available

**Other adverse effects** No data available

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**13. DISPOSAL CONSIDERATIONS**

**Product** Offer surplus and non-recyclable solutions to a licensed disposal company. Observe all federal, state and local laws.

**Contaminated packaging** Dispose of as unused product.

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**14. TRANSPORT INFORMATION**

**Shipping** Not regulated.

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**15. REGULATORY INFORMATION**

Adhere to all federal, state and local regulations.

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**16. OTHER INFORMATION**

The information contained herein is accurate to the best of our knowledge, but is not meant to be complete and is included only as a guide. The end user is responsible for any damage resulting from handling or from contact with this product.