
1. PRODUCT AND COMPANY IDENTIFICATION

Product Name	Rhamnolipid C12 C12 (Racemic)
Product Number	Rha-C12-C12
Supplier	GlycoSurf, LLC 835 N 300 W, Suite WA011 Salt Lake City, UT 84103
Telephone	(435) 901-1839
Email	info@glycosurf.com

2. COMPOSITION, INFORMATION OR INGREDIENTS

Ingredients	Rhamnolipids >95% Water <1%
Hazardous Ingredients	None

3. HAZARDS IDENTIFICATION

Eye Irritant	None
Skin Irritant	None
Avoid Ingestion	May be harmful if swallowed. Consult a physician.
Avoid Inhalation	May be harmful if inhaled. Irritating to respiratory system.

4. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.
If inhaled	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash off with plenty of water. Consult a physician.
In case of eye contact	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.

5. FIREFIGHTING MEASURES**Conditions of flammability**

Not flammable or combustible.

Hazardous combustion products

Nature of decomposition products not known.

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.

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 and caking. Storing under nitrogen is recommended.

Recommended storage temperature

2-8 °C (38-46 °F)

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).

Hand protection	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.
Skin and body protection	The type of protective equipment and impervious clothing must be selected according to the concentration and amount of dangerous substance at the specific workplace.
Hygiene measures	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the work day.
Respiratory protection	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

Appearance	Solid
Color	White or pale-yellow
Molecular formula	$C_{30}H_{56}O_9$
Molecular weight	560.77
Density	No data available
pH	~7.00
Melting point/freezing point	No data available
Boiling point	~99°C
Flash point	~99°C
Ignition temperature	No data available
Autoignition temperature	No data available
Lower explosion limit	No data available
Upper explosion limit	No data available
Vapor pressure	No data available
Water solubility	Soluble
Partition coefficient: n-	No data available

octanol/water	
Relative vapor density	No data available
Odor	Mild; sweet
Odor threshold	No data available
Evaporation rate	No data available

10. STABILITY AND REACTIVITY

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

11. TOXICOLOGICAL INFORMATION

Acute Toxicity	Oral LD50 LD50 oral (rat) >5000 mg/kg
	Inhalation LD50 No data available
	Dermal LD50 No data available
	Other information on acute toxicity No data available
Skin corrosion/irritation	No data available
Serious eye damage/eye irritation	Primary eye irritation (rabbit) 1% concentration is minimally irritating; 9.5% concentration is corrosive
Respiratory or skin	No data available

sensitization**Germ cell mutagenicity** No data available**Carcinogenicity** No data available**Reproductive toxicity** No data available**Teratogenicity** No data available**Specific target organ toxicity –
single exposure (GHS)** No data available**Specific target organ toxicity –
repeated exposure (GHS)** No data available**Aspiration hazard** No data available**Potential health effects****Inhalation**

May be harmful if inhaled.

Ingestion

May be harmful is ingested.

SkinMay be harmful if absorbed through the skin.
May cause skin irritation.**Eyes**

May cause eye irritation.

**Signs and symptoms of
exposure**To the best of our knowledge, the toxicological
properties of this compound have not been
fully investigated.**Synergistic effects**

No data available

Additional informationNot available

12. ECOLOGICAL INFORMATION**Toxicity** No data available**Persistence and degradability** 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

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.

14. TRANSPORT INFORMATION

Shipping	Not regulated.
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15. REGULATORY INFORMATION

Adhere to all federal, state and local regulations.

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.