

# SAFETY DATA SHEET

Global Harmonized System

## SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

<b>Product Identifier:</b> <b>Soya Fatty Acid TRS210 &amp; TRS210K (Kosher)</b>		
<b>Product Use:</b> This product is commonly used in the production of emulsifiers, and lubricants.		
<b>Manufacturer/Supplier's Name:</b> <b>TWIN RIVER TECHNOLOGIES</b>	<b>Customer Contact Phone:</b> <b>888-929-8780</b>	<b>Email:</b> <a href="mailto:Orders@trtlp.com">Orders@trtlp.com</a>
<b>Mailing Address:</b> <b>780 Washington Street, Quincy, MA 02169</b>	<b>Customer Website:</b> <b>www.twinrivertechnologies.com</b>	
<b>Emergency Telephone Number:</b>  <b>Please call TRT's Emergency Response Service Company, VelocityEHS:</b> <b>Reference TRT's Contract # MIS9075839</b> US, Canada, Puerto Rico, & the U.S. Virgin Islands Emergency #: 1-800-255-3924 General International Emergency #: 1-800-255-3924 or 1-813-248-0585 Australia: 1-300-954-583      Brazil: 0-800-591-6042      Mexico: 800-099-0731 India: 000-800-100-4086      China: 400-120-0751		

## SECTION 2 — HAZARDS IDENTIFICATION

### GHS – not a controlled product under Global Harmonized Systems

- European Hazard Classification: This product is not classified as dangerous according to Directive 67/548/EEC.
- Emergency Overview: North America Non- Hazardous
- Potential Health Effects:
  - Eye: Accidental exposure to the eyes may produce only a mild but transient irritation.
  - Skin: Mild, primary skin irritation with prolonged or repeated contact. Heated product may cause thermal burns if contacted.
  - Inhalation: Not applicable at ambient temperature.
  - Ingestion: May cause irritation of gastrointestinal tract.
  - If product is heated**, vaporization can occur. Eye, skin, and upper respiratory irritation may occur.
- Physical/Chemical Hazards: None identified.
- Environmental Hazards: None identified.

## SECTION 3 — COMPOSITION/INFORMATION ON INGREDIENTS

**Substance/Preparation (mixture):** Substance

Name	CAS No.	Wt/Wt %	EC No.	EC Symbols	EC R-phrases
Soybean Fatty Acid C16-18 and C18 unsaturated	68308-53-2	45 - 55	2696570	Not applicable	Not applicable
<b>Or</b> Fatty Acids, C16-18 and C18 unsaturated	67701-08-0	45 - 55	2669327	Not applicable	Not applicable

Occupational exposure limits, if applicable, are listed in Section 8.

LC/LD50 information is listed in Section 11.



- **Handling:** Handle in accordance with good hygiene and safety procedures. Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling.  
Since empty containers contain product residue, follow all hazard warnings and precautions even after container is emptied. Keep away from sources of ignition.
- **Storage:** Keep away from possible contact with incompatible substances.  
Store in acid resistant vessels such as stainless steel, aluminum, or steel coated with resin lining such as Lithcote LC-19 or Kanigen.  
Do not store near sources of ignition.
- **Specific use(s):** Follow bulk handling and storage procedures as noted above.

Refer to Section 6 for clean-up of spillages.

Refer to Section 13 for disposal considerations.

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## SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

- **General Precautions:** Good industrial hygiene should be followed.  
Avoid breathing (heated) vapors. Avoid eye and skin contact.
- **Exposure Limit Values:** Not established.
- **Exposure Controls:**  
**Engineering Controls:** Ventilation: Local exhaust - preferred  
Mechanical - may be necessary if working at elevated temperatures or in enclosed areas.

### Personal Protective Equipment:

- |              |  |
|--------------|--|
| Eye -        | Goggles or face shield with goggles, dependent upon potential exposure   |
| Skin -       | Protective gloves: Rubber or plastic<br>Dependent upon degree of potential exposure, additional personal protective equipment may be required, such as chemical boots and full protective clothing.  |
| Inhalation - | None required for ambient temperature, although an appropriate NIOSH/MSHA approved air-purifying respirator should be used if a mist, vapor or dust is generated.<br>A NIOSH/MSHA approved self-contained breathing apparatus or air-supplied respirator is recommended if the concentration exceeds the capacity of cartridge respirator. <b>WARNING:</b> Air purifying respirators do not protect workers in oxygen-deficient atmospheres. |

**Other Controls:** Boots, eye wash fountain, safety shower, apron, protective clothing.

- **Environmental Exposure Controls:** Contact Twin Rivers Technologies Community information.

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## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

- **General Information:**

Physical State at 72° F (22° C):	Liquid to semi-solid
Appearance:	Water white to yellow
Odor:	Musty, fatty
Odor Threshold:	Not available
- **Important health, safety and environmental information:**

pH:	3 - 5
Boiling point/Boiling range:	Over 500° F (260° C) @ 760 mm Hg (101.3kPa)
Flash Point & Method:	>300° F (>149° C) PMCC
Flammability (solid, gas):	Not available
Explosive properties:	Not available
Oxidizing properties:	Not available

Vapor pressure:	@ 72° F (22° C) < 1 mm Hg
Relative density:	0.85 - 0.90 @ 49/25° C
Freezing point:	Not available
Solubility:	Water solubility: Negligible @ 72° F (22° C)
Fat solubility (solvent-oil to be specified):	Not available
Partition coefficient: n-octanol/water:	Not available
Viscosity:	@ 25° C 30 – 40 cts
Vapor density:	Not available
Evaporation Rate (nBuOAc=1):	Not available
Explosive Limits:	Not available
Auto ignition temperature:	Not available
Coefficient of water/oil distribution:	Not available

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## SECTION 10 - STABILITY AND REACTIVITY

- Stability: Stable under normal operational conditions.
- Conditions to Avoid: Not available
- Materials to Avoid: Strong oxidizing agents.
- Hazardous Decomposition Products: Does not decompose up to 400° F (204° C). Thermal decomposition or burning may produce carbon monoxide and/or carbon dioxide.
- Hazardous Polymerization: Will not occur.

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## SECTION 11 - TOXICOLOGICAL INFORMATION (Based on Fatty acid mixture)

### Acute Oral Toxicity / Rats

The acute oral LD50 for male albino rats was greater than 24 g/kg of body weight.

### Skin Safety

The application of undiluted fatty acid produced mild irritation to rabbit's skin after a 24-hr. exposure. The primary irritation index was 1.6 out of a possible score of 8.

### Eye Safety

The administration of undiluted test material to the eyes of rabbits produced mild, transient eye irritation. No corneal or iris involvement was observed.

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## SECTION 12 - ECOLOGICAL INFORMATION (Based on Fatty acid mixture)

	<b>OLEIC ACID</b>	<b>LINOLEIC ACID</b>
96 HOUR LC50, Bluegills	66.6 mg/L	No available data
96 HOUR LC50, Fathead minnows	*205 mg/L	No available data

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## SECTION 13 - DISPOSAL CONSIDERATIONS

DISPOSAL IS TO BE PERFORMED IN COMPLIANCE WITH ALL FEDERAL, STATE/PROVINCIAL AND LOCAL REGULATIONS. Do not dispose of via sinks, drains or into the immediate environment.

Contaminated packaging: Observe local regulations.

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## SECTION 14 - TRANSPORT INFORMATION

**U.S. DOT:** Not regulated for transport  
 Not classified in RID/ADR - ADNR - IMDG - ICAO/IATA – DGR

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## SECTION 15 - ADDITIONAL REGULATORY INFORMATION

**INVENTORY STATUS:**

Listed on TSCA (USA), AICS (Australia), DSL (Canada), EINECS (EU), IECSC (China), KECI (Korea), New Zealand (Composite List of Single Component Substances to be considered for Transfer (April 2003)), PICCS (Philippines)

WGK water endangering class 1, slightly water endangering

**Canada**

**HAZARDOUS INGREDIENTS – WHMIS (Canadian Workplace Hazardous Materials Information System)**

This product when tested as a whole is not a controlled substance within the meaning of the Hazardous Products Act. This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations

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**SECTION 16 - OTHER INFORMATION**

**EUROPE**

This product safety data sheet was prepared in compliance with Directive 2001/58/EC.

References: "Safety Studies on a Series of Fatty Acids" by G.B. Briggs, R.L. Doyle and J.A. Young; Amer. Ind. Assoc. J. 251-253 (April 1976).

\*V. R. Mattson, et al, "Acute toxicity of selected organic compounds to fathead minnows," EPA-600/3-76-097, Oct. 1976.

The submission of the SDS may be required by law, but this is not an assertion that the substance is hazardous when used in accordance with proper safety practices and normal handling procedures. Data supplied are for use only in connection with occupational safety and health.

The information contained herein has been compiled from sources considered by Twin Rivers Technologies to be dependable and is accurate to the best of the Company's knowledge. The information relates to the specific product designated herein, and does not relate to use in combination with any other material of any other process. Twin Rivers Technologies assumes no responsibility for injury to the recipient or third persons, or for any damage to any property resulting from misuse of the controlled product.

**This Safety Data Sheet complies with OSHA/EPA/EU Standards and Requirements**