

# SAFETY DATA SHEET

Global Harmonized System

### SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Use: This product is commonly used i	n the production of emulsifiers	, and lubricants.
Manufacturer/Supplier's Name: TWIN RIVER TECHNOLOGIES	Customer Contact Phone: 888-929-8780	Email: Orders@trtlp.com
Mailing Address: 780 Washington Street, Quincy, MA 02169	Customer Website: www.twinrivertechr	nologies.com
Emergency Telephone Number:		

### SECTION 2 — HAZARDS IDENTIFICATION <u>GHS – not a controlled product under Global Harmonized Systems</u>

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.		
<ul> <li>Physical/Chemical Hazards:</li> </ul>		None identified.	
<ul> <li>Environmental Hazards:</li> </ul>		None identified.	

### SECTION 3 — COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Preparation (mixture): Substance					
Name	CAS No.	Wt/Wt %	EC No.	EC Symbols	EC R-phrases
Fatty Acids, C16-18 and C18-unsatd.	67701-08-0	95	N/A	N/A	N/A
or Fatty Acids, Rapeseed Oil, Low Erucic Acid	93165-31-2	100	296-916-5	N/A	N/A

or

### TRR910

Fatty Acids, Canola-Oil	124018-38-8	100	602-968-5	N/A	N/A
Occupational exposure limits, if applical LC/LD50 information is listed in Section	Section 8.				

## SECTION 4 — FIRST AID MEASURES

• Eye:	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.
• Skin:	Wash skin with soap and water upon contact. Remove contaminated clothing. If irritation develops, get medical attention. Wash clothing before reuse.
• Inhalation:	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.
• Ingestion:	If swallowed, do not induce vomiting. Get medical attention. Never give anything by mouth to an unconscious person

### SECTION 5 - FIRE FIGHTING MEASURES

• Extinguishing media:	SMALL FIRES: LARGE FIRES:	Use CO2 or dry chemical. Use foam.
• Unsuitable extinguishing media	1:	Do not use water as an extinguishing media.
• Flash Point and method:		>300° F (>149° C) PMCC
• Explosive limits in air:	Upper: Lower:	Not available Not available
• Auto-ignition temperature:		Not available
• Sensitivity to mechanical impact/static discharge:		Not available
• Special Protective Equipment:		Wear self-contained breathing apparatus and full protective clothing.
• Other Fire Fighting Considerations:		Cool containers with flooding quantities of water until well after fire is out.
• Exposure hazards:		Does not decompose up to 400° F (204° C). Thermal decomposition or burning may produce carbon monoxide and/or carbon dioxide.

### SECTION 6 - ACCIDENTAL RELEASE MEASURES

• Personal Precautions:	An appropriate NIOSH/MSHA approved respirator should be used if a mist, vapor or dust is generated. Wear suitable gloves and eye/face protection. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
• Environmental Precautions:	Minimize contamination of drains, surface and ground waters. Dike flow of spilled material using soil or sandbags to minimize contamination of drains, surface and ground waters
• Procedures for Spill/Leak Clean-up:	Sweep or shovel solids. For liquid spills, neutralization is not required. Contain spill. Absorb or cover with dry earth, sand or other noncombustible

material and transfer to containers for disposal. Dispose as any grease or oily material in compliance with Federal, State, and/or Local requirements.

Refer to Section 8 for additional personal protection information. Refer to Section 13 for disposal considerations.

### SECTION 7 - HANDLING AND STORAGE

• 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.

### 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 - Skin - Inhalation -	Goggles or face shield with goggles, dependent upon potential exposure Protective gloves: Rubber or plastic Dependent upon degree of potential exposure, additional personal protective equipment may be required, such as chemical boots and full protective clothing. 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. A NIOSH/MSHA approved self-contained breathing apparatus or air-supplied respirator is recommended if the concentration exceeds the capacity of cartridge respirator. WARNING: 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.

### **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 in	nformation:
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:	(a) 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:	(a) $25^{\circ}$ 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

### **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.

#### 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.

<u>Skin Safety</u> 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.

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

96 HOUR LC50, Bluegills 6 96 HOUR LC50, Fathead minnows \*

OLEIC ACID 66.6 mg/L \*205 mg/L **LINOLEIC ACID** No available data No available data

### 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.

### SECTION 14 - TRANSPORT INFORMATION

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

### 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

### <u>Canada</u>

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.

### **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