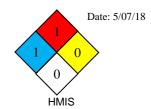


SAFETY DATA SHEET

Global Harmonized System



SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

TRC101, TRC10)1K, TR(C103, TRC108	, TRC108KL	Health - 1 Flammab Physical F	ility - 1		
Product Use This product is o	commonly use	ed in the production of	f soaps, emulsifiers, lubrican	nts, carriers	s, and so	ap surfactants.	
Manufacturer's Name			Supplier's Name				
Twin Rivers Technologies			Twin Rivers Technologies				
Street Address			Street Address				
780 Washington Street			780 Washington Street				
City		Province	City		Province		
Quincy		MA	Quincy			MA	
Postal Code	Emergency ⁻	Telephone	Postal Code		Emergency		
02169 617-41		3-5339	02169	Telephone		Telephone	
			32.33	617-413-5		413-5339	
Date SDS Prepared		SDS Prepared By		Phone Number			
Sept 27, 2017		Twin Rivers Technologies		617-472-9200			

SECTION 2 — HAZARDS IDENTIFICATION

European Hazard Classification: This product is classified as Xi – Irritant; R41- Risk of serious eye damage

Emergency Overview: USA-OSHA: Non-hazardous

Canada: Skin and eye irritant, toxic

· Potential Health Effects:

Eye - Accidental exposure to the eyes will cause 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 - Incidental ingestion should not cause injury.

If product is heated, vaporization can occur. Eye, skin, and upper respiratory irritation can occur.

Physical/Chemical Hazards 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
Fatty Acids, C8-18 and C18 unsatd.	67701-05-7	100	2669290	Xi	R41
Or					
Fatty Acids of Coconut Oil,					
hydrogenated	68938-15-8	100	2731185	Xi	R41

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

LC/LD50 information is listed in Section 11.

TRC101, TRC101K, TRC103, TRC108, TRC108KL

SECTION 4 — FIRST AID MEASURES

Skin Contact: Wash skin with soap and water upon contact. Remove contaminated clothing. If irritation develops,

get medical attention. Wash clothing before reuse.

Eye Contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.

Get medical attention.

Avoid breathing dust. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If Inhalation

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: Use CO2 or dry chemical.

LARGE FIRES: Use foam.

• Unsuitable extinguishing media: Do not use water as an extinguishing media.

• Flash Point and method: ~300° F (>149° C) PMCC

• Explosive limits in air:

Upper: Not available Lower: 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. Potential combustible dust if flaked or powdered. Dust generated from

flaked product will be combustible at sufficient concentration.

Does not decompose up to 400° F (204° C). Thermal decomposition or burning may • Exposure hazards:

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

Sweep or shovel solids. For liquid spills, neutralization is not required. • Procedures for Spill/Leak Clean-up:

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 - Goggles or face shield with goggles, dependent upon potential exposure

Skin - 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.

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. 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 @ 72° F (22° C): Solid Appearance: Water white to yellowish

Odor: Musty, fatty

Odor Threshold: Not available

• Important health, safety and environmental information:

pH: 3 - 4

Boiling point/Boiling range: >500° F (260° C) @ 760 mm Hg (101.3kPa)

Flash Point & Method: >300° F (148.9° C) PMCC

Flammability (solid, gas): Not available Explosive properties: Not available Oxidizing properties: Not available

Vapor pressure: @ 72° F (22° C) < 1 mm Hg Specific Gravity (H2O=1): 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: Not available Vapor density: Not available

Evaporation Rate (nBuOAc=1): Not available

Explosive Limits:

Lower: Not available Upper: 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 coconut fatty acid mixture)

Acute Oral Toxicity

Practically non-toxic. The acute oral LD50 for rats is greater than 22 g/kg of body weight.

<u>Skin Safety</u>

Undiluted coconut fatty acids produced mild, primary irritation on normal skin in a 24-hour occluded patch test with humans.

Eye Safety

Undiluted coconut fatty acids produced mild transient eye irritation with rabbits.

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SECTION 12 - ECOLOGICAL INFORMATION (Based on coconut fatty acid mixture)

The 96 hour LC50 for Bluegills was ≈ 900 mg/l. Microbiological Inhibition: None at 10,000 mg/l.

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: TSCA (US), AICS (Australia), IECSC (China), EINECS (EU), KECI (Korea),

New Zealand (Composite List of Single Component Substances to be considered

for Transfer (April 2003)), Philippines

EC LABELING AND CLASSIFICATION:

According to Directives 67/548/EEC and 1999/45/EC

- Symbol: Xi Irritant

- Risk phrase(s): R41 Risk of serious eye damage

Canada

<u>HAZARDOUS INGREDIENTS – WHMIS (Canadian Workplace Hazardous Materials Information System)</u>

This product when tested as a whole is considered a controlled substance Class D, Division 2, Subdivision b (skin and eye irritant, toxic) 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

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

- CHEMTREC (24HR Emergency Telephone), call: 1-800-424-9300
- International CHEMTREC, call: 1-703-527-3887

TRC101, TRC101K, TRC103, TRC108, TRC108KL