

Date: 02/26/19

SAFETY DATA SHEET



1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Use

Mid-Cut Coconut Fatty Acid TRC1218D, TRC1218DH, TRC1218LH

[HMIS Classification] Health - 1 Flammability - 1 Physical Hazard - 0

This product is commonly used in the production of soaps, emulsifiers, lubricants, carriers, and soap surfactants.

| Manufacturer's Name | | | Supplier's Name | | | |
|--------------------------|-----------|--------------------------|---------------------------|--------------|---------|----------|
| Twin Rivers Technologies | | Twin Rivers Technologies | | | | |
| | | | i uni i utoro i comologia | 50 | | |
| Street Address | | | Street Address | | | |
| 780 Washington Street | | 780 Washington Street | | | | |
| ree traemigten etreet | | | ree masmigten ener | | | |
| City | | Province | City | | | Province |
| Quincy | | МА | Quincy | | | MA |
| | | | | | | |
| Postal Code | Emergency | Felephone | Postal Code | | Em | hergency |
| 02169 | 617-41 | 3-5339 | 02169 | | Te | elephone |
| | _ | | | | 617-413 | 3-5339 |
| Date SDS Prepared | | SDS Prepared By | | Phone Num | ber | |
| Oct. 28,2017 Twi | | Twin Rivers Technologies | | 617-472-9200 | | |
| , | | | | | | |

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 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: | May cause irritation of gastrointestinal tract. | |
| | If product is heated, vaporization can occur. Eye, skin, and upper respiratory irritation may occur. | | |
| Physical/Chemical Hazards: | Potential combustible dust if flaked or powdered. Dust generated from flaked product will be combustible at sufficient concentration | | |
| • Environmental Hazards: | | None identified. | |

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Substance/Preparation (mixture): Substance | | | | | |
|---|------------------------------|-----------------------|----------------------------|---------------------------|--------------------------------|
| <u>Name</u> Fatty Acids C12 – C18 and C18 unsat. | <u>CAS No.</u> 90990-15-1 | <u>Wt/Wt %</u> 100 | <u>EC No.</u> 292-776-4 | EC Symbols not applicable | EC R-phrases not applicable |
| Or Fatty Acids, C12 – C18 | 67701-01-3 | 100 | 266-925-9 | not applicable | not applicable |

Occupational exposure limits, if applicable, are listed in Section 8. LC/LD50 information is listed in Section 11.

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. |

5. FIRE FIGHTING MEASURES

| • Extinguishing Media: | SMALL FIRES: LARGE FIRES: | Use CO2 or dry chemical. Use foam. |
|--|------------------------------|--|
| • Unsuitable extinguishing media: | | Do not use water as an extinguishing media. |
| • Flash Point and method: | | ~310° F (>154° C) PMCC |
| • Explosive limits in air: | Upper: Lower: | Not available Not available |
| Auto-ignition temperature:Sensitivity to mechanical | | >482° F (>250° C) |
| 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. |

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. |
| Procedures for Spill/Leak Clean-up: | Neutralization not required. Contain spill. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers for disposal. Dispose as any grease or oily material in compliance with Federal, State, and/or Local requirements. |
| Defense Caption 9 for additional nervous n | notaction information |

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

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 and can be dangerous, 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. Should be stored in resin-lined steel, aluminum, stainless steel, or reinforced fiberglass vessels. Do not store near possible 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.

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 |

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Other Controls:

• Environmental Exposure Controls:

not protect workers in oxygen-deficient atmospheres.

Boots, eye wash fountain, safety shower, apron, protective clothing.

Contact Twin Rivers Technologies for specific Community information.

9. PHYSICAL AND CHEMICAL PROPERTIES

• General Information:

Physical State @ 72° F (22° C): Solid Appearance: off white to light brown 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 |
| | |

10. STABILITY AND REACTIVITY

| • Stability: | Stable under normal operational procedures. |
|-----------------------------------|---|
| Conditions to Avoid: | None identified. |
| Materials to Avoid: | 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. |

11. TOXICOLOGICAL INFORMATION

Acute Oral Toxicity / Rats

The acute oral LD50 for male albino rats was greater than 22 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.

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.

12. ECOLOGICAL INFORMATION

| | OLEIC ACID | LINOLEIC ACID | LAURIC ACID |
|-------------------------------|------------|-------------------|-------------------|
| 96 HOUR LC50, Bluegills | 66.6 mg/L | No available data | 900 mg/L |
| 96 HOUR LC50, Fathead minnows | 205 mg/L | No available data | No available data |

Biodegradation

Sodium stearate: 89% in 28 days "Sealed Vessel Test" (Modified Sturm Test)

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.

14. TRANSPORT INFORMATION

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

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)

California Proposition 65 Components: None

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.

16. OTHER INFORMATION

EUROPE

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

References: RTECS ACCESSION NUMBER RT4550000 – Palmitic acid *RTECS ACCESSION NUMBER WI2800000 – Stearic acid **Acute toxicity and irritation studies on a series of fatty acids. J. Am. Oil Chem. Soc., 56 (1979), p. 760A. K. Verschueren. Handbook of environmental data on organic chemicals, 3rd ed. (1998).

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 or 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