

SAFETY DATA SHEET

Date: 5/23

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

TRC1495 & TRC1498 - Myristic Acid

Product Use:

Product Identifier:

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

Manufacturer/Supplier's Name: Customer Contact Phone: Email:

TWIN RIVER TECHNOLOGIES 888-929-8780 Orders@trtlp.com

Mailing Address: Customer Website:

780 Washington Street, Quincy, MA www.twinrivertechnologies.com 02169

Emergency Telephone Number:

Please call TRT's Emergency Response Service Company, VelocityEHS:

Reference TRT's Contract # MIS9075839

US, Canada, Puerto Rico, & the U.S. Virgin Islands Emergency #:1-800-255-3924

General International Emergency #s: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: This product is classified as non-hazardous in North America.

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 - May elicit transient pulmonary irritation if inhaled.

Ingestion - Incidental ingestion should not cause injury.

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
Tetradecanoic acid	544-63-8	95 - 100	2088752	Not applicable	Not applicable

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

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.

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: Use CO2 or dry chemical. LARGE FIRES: Use foam. DO NOT use water

• Unsuitable extinguishing media:

Do not use water as an extinguishing media.

Flash Point and method: 385° F (196° 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.

• 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.

Engineering Controls: <u>Ventilation</u>: Local exhaust is 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.

Section 8 Continued:

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 PPE: 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: white to light yellow

Odor: Musty, fatty

Odor Threshold: Not available

Important health, safety and environmental information:

pH: 3-4

Boiling point/Boiling range: 483° F (250.6° C) @ 100 mm Hg

Flash Point & Method: 385° F (196° C) PMCC

Flammability (solid, gas):

Explosive properties:

Oxidizing properties:

Vapor pressure: @ 72° F (22° C)

Relative density:

Not available

Not available

1 mm Hg

0.86 @ 20/20° C

Freezing point:

129° F (54° C)

Solubility:

Water solubility: Negligible @ 72° F (22° C)

Fat solubility (solvent-oil to be specified): Not available Partition coefficient: n-octanol/water:

Viscosity:

Vapor density:

Evaporation Rate (nBuOAc=1):

Not available
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

Dodecanoic acid:

Irritation Data: Eye, rabbit 100 mg. Mild irritation effects

Skin, human 75 mg/3D-I MOD

Acute Toxicity: Oral, rat LD50 >10 gm/kg

<u>Tetradecanoyl acid:</u> LD50 skin, rabbit No available data LD50 oral, rat > 10 gm/kg

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

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

Gammarus (Hyale plumulosa): 96h LC50: no mortality at saturation conc.

goldfish: lethal dose: 9 mg/l (sodium salt)

red killifish (Oryzias latipes): 96h LC50: in seawater: no mortality at saturation conc.

118 mg/l (sodium myristate)

Microbial 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, EINECS, DSL, ENCS (Japan), AUSTR, PHIL, CHINA, KOREA

EC LABELING AND CLASSIFICATION: According to Directives 67/548/EEC and 1999/45/EC.

SECTION 16 - OTHER INFORMATION

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

References: RTECS ACCESSION NUMBER RT4550000 – Palmitic acid

*RTECS ACCESSION NUMBER WI2800000 – Stearic acid RTECS ACCESSION NUMBER QH4375000 – Myristic acid

**Acute toxicity and irritation studies on a series of fatty acids.

J. Am. Oil Chem. Soc., 56(1979), p. 760AK.

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 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