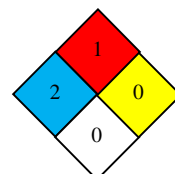


# SAFETY DATA SHEET

Global Harmonized System



HMIS

## SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier <b>TRC1299, TRC1299CNO Lauric Acid</b>		[HMIS Classification] Health -2 Flammability - 1 Physical Hazard - 0	
Product Use This product is commonly used in the production of soaps, emulsifiers, lubricants, carriers, and soap surfactants.			
Manufacturer's Name Twin Rivers Technologies		Supplier's Name Twin Rivers Technologies	
Street Address 780 Washington Street		Street Address 780 Washington Street	
City Quincy	Province MA	City Quincy	Province MA
Postal Code 02169	Emergency Telephone 617-413-5339	Postal Code 02169	Emergency Telephone 617-413-5339
Date SDS Prepared Oct. 29, 2017	SDS Prepared By Twin Rivers Technologies	Phone Number 617-472-9200	

## 2. GHS HAZARDS IDENTIFICATION



**H319 Causes skin irritation**



**H318 Causes serious eye damage**

**European Hazard Classification:** This product is classified as Xi – Irritant; R36 – Irritating to eyes, R41- Risk of serious eye damage

### • Emergency Overview:



**DANGER : GHS05 - CORROSIVE**

**CAUTION:** Avoid contact with eyes, skin or clothing. Wash thoroughly after handling.

### • Potential Health Effects:

)	Eye:	May cause severe or permanent damage
)	Skin:	causes burns
)	Inhalation:	May elicit pulmonary irritation if mist or vapors are formed. May cause coughing or difficult breathing.
)	Ingestion:	Causes burns to mucous membranes

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

• Physical/Chemical Hazards: None identified

• Environmental Hazards: None identified.

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**3. COMPOSITION/INFORMATION ON INGREDIENTS**

<b>Substance/Preparation (mixture): Substance Name</b>	<b>CAS No.</b>	<b>Wt/Wt %</b>	<b>EC No.</b>	<b>EC Symbols</b>	<b>EC R-phrases</b>
Dodecanoic acid	143-07-7	98 - 100	2055821	Xi	R36, R41

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

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**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:** Avoid breathing dust. If inhaled, 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.

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**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:** 335 [F (168 [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.

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## 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.

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## 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.

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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

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.

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**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:	570 [F (299 [C) @ 760 mm Hg (101.3kPa)
Flash Point & Method:	335 [F (168 [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:	0.87 @ 20/20 [C
Freezing point:	111 [F (44 [C)
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

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**SECTION 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.

## SECTION 11 - TOXICOLOGICAL INFORMATION

### Dodecanoic acid:

Irritation Data:

Eye, rabbit Corneal opacity, mild conjunctivitis, iritis – 72 h observation  
 Skin, rabbit 500 mg. Mild irritation effects

Acute Toxicity:

Oral, rat LD50 12 gm/kg

LD50 skin, rabbit Decanoic acid > 5 gm/kg

LD50 oral, rat > 10 gm/kg

Tetradecanoic acid

No available data  
> 10 gm/kg



**H319 Causes skin irritation**



**H318 Causes serious eye damage**

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

Bluegill sunfish	96h LC50	63.3 mg/l
NOEC		32 mg/l
Oryzias latipes	96h LC50	8.6 mg/l
Gammarus sp.	48h EC50	8.6 mg/l
Nitzschia sp. 7	2h EC50	30000 mol/l
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

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## 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

		Contains hexanoic and octanoic acids
- Symbol:	Xi	Irritant
- Risk phrase(s):	R41	Risk of serious eye damage
	R36	Irritating to eyes.
- Safety phrase(s):	S36/37/39	Wear suitable protective clothing, gloves, eye/face protection
	S25	Avoid contact with eyes
	S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**Canada**

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

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.

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## SECTION 16 - OTHER INFORMATION

**EUROPE**

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

R-phrase(s): R41 Risk of serious eye damage, R36 Irritating to eyes.

**USA LABELING:**

**CAUTION: MAY CAUSE EYE IRRITATION**

**Avoid contact with eyes. Wash thoroughly after handling.**

**FIRST AID: In case of contact,** immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

References: RTECS ACCESSION NUMBER OE9800000 Lauric acid  
Patty's Industrial Hygiene and Toxicology, 4<sup>th</sup> ed. Edited by George D. Clayton & Florence E. Clayton  
BIBRA toxicity profile (1996) n-Decanoic acid.

RTECS ACCESSION NUMBER QH4375000 Myristic acid  
Onitsuka et al. 1989. Chemosphere. 18:1621-1631.  
Mann & Florence. 1987. Fuel. 66:404-407.

The submission of the MSDS 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**