

SAFETY DATA SHEET

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: TRC1299 and TRC1299CNO – Lauric Acid

Product Use:

This product is commonly used in the production of cutting oils, specialty soaps, and chain terminators.

Manufacturer/Supplier's Name: TWIN RIVER TECHNOLOGIES	Customer Contact Phone: 888-929-8780	Email: Orders@trtlp.com	
Mailing Address:	Customer Website:	Orders@trap.com	
780 Washington Street, Quincy, MA	www.twinrivertechnolo	gies.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: 0-800-591-604	2 Mexico: 800-099-0731		
India: 000-800-100-4086 China: 400-120-0751			

SECTION 2: GHS HAZARDS IDENTIFICATION



Emergency Overview:

H319 - Causes skin irritation.



H318 - Causes serious eye damage.

European Hazard Classification: Xi – Irritant; R36 – Irritating to eyes and R41- Risk of serious eye damage



DANGER : GHS05 - CORROSIVE CAUTION: Avoid contact with eyes, skin or clothing. Wash thoroughly after handling.

Potential Health Effects	<u>:</u>		
•	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.			
<u>Physical/Chemical Haza</u>	rds:	None identified	
<u>Environmental Hazards</u>	<u>:</u>	None identified.	

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

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

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

Twin River Technologies SDS TRC1299 and TRC1299CNO

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.

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 and 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.
1	6 for clean up of spillages. Pefer to Section 13 for disposal considerations

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:	Ventilation: Local exhaust is preferred. Mechanical may be necessary if working at elevated	
	temperatures or in enclosed areas.	

ersonal Protective Equipment:	
Eye - Goggles or face shield with goggles, dependent upon potential exposure	
Skin - Protective gloves: Rubber or plastic; Ensure there is an eye wash fountain and safety shower nearby.	
Dependent upon degree of potential exposure, additional personal protective equipment may b required, such as chemical boots and full protective clothing.	e
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, apron, protective clothing.	

Environmental Exposure Controls: Contact Twin Rivers Technologies Community information.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State @ 72° F (22° C):SolidAppearance:white to light yellowOdor:Musty, fattyOdor Threshold:Not availableImportant health, safety and environmental information:pH:3-4Boiling point/Boiling range:570° F (299° C) @ 760 mm Hg (101.3kPa)Flash Point & Method:335° F (168° C) PMCCFlammability (solid, gas):Not availableExplosive properties:Not availableOxidiZing properties:Not availableVapor pressure: @ 72° F (22° C)< 1 mm HgRelative density:0.87 @ 20/20° CFreezing point:111° F (44° C)Solubility:Water solubility:Water solubility:Not availableVapor density:Not availablePartition coefficient: n-octanol/water:Not availableVapor density:Not availableVapor density:Not availableVapor density:Not availableExaporation Rate (nBuOAc=1):Not availableExaporation Rate (nBuOAc=1):Not availableExaporation Coefficient:Not availableExaporation fate (nBuOAc=1):Not availableAuto ignition temperature:Not availableAuto ignition temperature:Not availableCoefficient of water/oil distribution:Not available	General Information:	
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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). The Rmal 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	

SECTION 11 continued:

	<u>Decanoic acid</u>
LD50 skin, rabbit	> 5 gm/kg
LD50 oral, rat	>10 gm/kg

<u>Tetradecanoic acid</u> 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
NOEC	
Oryzias latipes	96h LC50
Gammarus sp.	48h EC50
Nitzschia sp. 7	2h EC50
Microbial inhibition	

d on coconut fatty a 63.3 mg/l 32 mg/l 8.6 mg/l 8.6 mg/l 30000 mol/l 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:		(US), AICS (Australia), IECSC (China), EINECS (EU), KECI (Korea),
New Zealand (Composite List of Single Component Substances to be considered		
	for Tra	nsfer (April 2003)), Philippines
EC LABELING AND CL	ASSIFICATION	: According to Directives 67/548/EEC and 1999/45/EC
Contains hexanoic and oc	tanoic 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.
SECTION 16 - OTHER I	NFORMATIC)N
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	on.
<u>References:</u> RTEC	S ACCESSION	NUMBER OE9800000 Lauric acid
	's Industrial Hyg	giene and Toxicology, 4th ed. Edited by George D. Clayton & Florence E. Clayton
		e (1996) n-Decanoic acid.
	• 1	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.