

Safety Data Sheet Revision Date: 12/01/18 https://helixchrom.com/

2 Letter ISO country code/language code: US/EN

1. IDENTIFICATION

Phone#:

Catalog Number / Product Name: HC-BIS2-10/ Tricaprin (Biodiesel Internal Standard 2)

Company: Helix Research Solutions, Inc. Address: 15 E. Palatine Rd., Suite 118 Prospect Heights, IL 60070

(847) 777-1335

Emergency#: 800-424-9300 (CHEMTREC) 703-527-3887 (Outside the US)

Email: mail@helixchrom.com

Revision Number:

Intended use: For Laboratory use only

2. HAZARD(S)IDENTIFICATION

Emergency Overview:





GHS Hazard Symbols:

GHS Flammable Liquid Category 2 Classification: Acute Toxicity - Dermal Category 4

Danger

Acute Toxicity - Oral Category 4

GHS Signal

Word:

GHS Hazard:

Highly flammable liquid and vapour.

Harmful if swallowed or in contact with skin.

GHS

Precautions:

Safety Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Precautions: Keep container tightly closed.

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilation and lighting equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge. Wash hands and skin thoroughly after handling. Do not eat, drink or smoke when using this product.

Wear protective gloves/protective clothing/eye protection/face protection.

First Aid IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

Measures: IF ON SKIN: Wash with plenty of soap and water.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

Specific treatment see section 4.

Rinse mouth.

Take off contaminated clothing and wash it before reuse.

In case of fire: Use extinguishing media in section 5 for extinction.

Storage: Keep container tightly closed.

Store in a well-ventilated place. Keep cool.

Disposal: Dispose of contents/container according to section 13 of the SDS.

No data available Single

Exposure Target Organs:

Repeated

No data available

Exposure Target Organs:

3. COMPOSITION / INFORMATION ON INGREDIENT

Chemical Name	CAS#	EINEC #	% Composition
pyridine	110-86-1	203-809-9	99.2
1,2,3-Tricaprinoylglycerol (Tricaprin)	621-71-6	210-702-0	0.8

4. FIRST-AID MEASURES

Inhalation: Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen. If not

breathing, give artificial respiration and have a trained individual administer oxygen. Get

medical attention immediately.

Eyes: Immediately flush eyes with plenty of water for at least 20 minutes retracting eyelids often.

Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate

medical attention and monitor the eye daily as advised by your physician.

Skin Contact: Wash with soap and water. Remove contaminated clothing and launder. Get medical

attention if irritation develops or persists.

Ingestion: Severely irritating. Do not induce vomiting. Seek medical attention immediately. Drink 2

glasses of water or milk to dilute.

5. FIRE- FIGHTING MEASURES

Extinguishing Media: Use alcohol resistant foam, carbon dioxide, or dry chemical extinguishing

agents. Water may be ineffective but water spray can be used extinguish a fire if swept across the base of the flames. Water can absorb heat and

keep exposed material from being damaged by fire.

Fire and/or Explosion Hazards: Vapors may be ignited by sparks, flames or other sources of ignition if

material is above the flash point giving rise to a fire (Class B). Vapors are heavier than air and may travel to a source of ignition and flash back.

Fire Fighting Methods and Protection: Do not enter fire area without proper protection including self-contained

breathing apparatus and full protective equipment. Fight fire from a safe distance and a protected location due to the potential of hazardous vapors and decomposition products. Flammable component(s) of this material may be lighter than water and burn while floating on the surface.

Hazardous Combustion Products: Carbon dioxide, Carbon monoxide

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions and Equipment: Exposure to the spilled material may be irritating or harmful. Follow

personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the

expertise of employees in the area responding to the spill.

Methods for Clean-up: Prevent the spread of any spill to minimize harm to human health and the

environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal

evaluation.

7. HANDLING AND STORAGE

Handling Technical Measures and Precautions: Harmful or irritating material. Avoid contacting and avoid

breathing the material. Use only in a well ventilated area. Use

Storage Technical Measures and Conditions: spark-proof tools and explosion-proof equipment Store in a cool dry ventilated location. Isolate from

incompatible materials and conditions. Keep container(s)

closed. Keep away from sources of ignition

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

United States:

IDLH ACGIH STEL **Chemical Name** CAS No. **ACGIH TLV-TWA OSHA Exposure**

Limit

110-86-1 1000 ppm None Known 1 ppm TWA 5 ppm TWA; 15 pyridine

IDLH

mg/m3 TWA

Personal Protection:

Engineering Measures: Local exhaust ventilation is recommended when generating excessive levels of

vapours from handling or thermal processing.

Respiratory Protection: Respiratory protection will be required when handling this product. Use

respirators only if ventilation cannot be used to eliminate symptoms or reduce the

exposure to below acceptable levels.

Wear chemically resistant safety glasses with side shields when handling this Eye Protection:

> product. Wear additional eye protection such as chemical splash goggles and/or face shield when the possibility exists for eye contact with splashing or spraying liquid, or airborne material. Do not wear contact lenses. Have an eye wash

station available.

Skin Protection: Wear protective gloves. Inspect gloves for chemical break-through and replace at

regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when

leaving work

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance, color: No data available

Odor: None

Physical State: No data available pH: Not applicable Vapor Pressure: No data available Vapor Density: 2.73 (air = 1)**Boiling Point (°C):** 115 - 116 °C -42 °C

Melting Point (°C): Flash Point (°F): 66

Flammability: Highly Flammable **Upper Flammable/Explosive Limit, % in air:** No data available Lower Flammable/Explosive Limit, % in air: No data available Autoignition Temperature (°C): No data available deg C **Decomposition Temperature (°C):** No data available **Evaporation Rate:** No data available Odor Threshold: No data available Solubility: Not determined Partition Coefficient: n-octanol in water: No data available

VOC % by weight:

Molecular Weight: No data available

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions.

Conditions to Avoid: None known.

Materials to Avoid / Chemical Incompatiability: Strong oxidizing agents **Hazardous Decomposition Products:** No data available

11. TOXICOLOGICAL INFORMATION

Routes of Entry: Inhalation Skin contact Absorption Ingestion

Target Organs Potentially Affected By Exposure: Central nervous system stimulation, Liver, Skin, GI

Tract, Eyes

Chemical Interactions That Change Toxicity: None Known

Immediate (Acute) Health Effects by Route of Exposure:

Can cause severe respiratory irritation, dizziness, weakness, fatigue, nausea, Inhalation Irritation:

headache and possible unconsciousness.

Skin Contact: Can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause

permanent damage.

Skin Absorption: Harmful if absorbed through the skin. May cause severe irritation and systemic

damage.

Eye Contact: Contact with the eyes may cause moderate to severe eye injury. Eye contact

may result in tearing and reddening, but not likely to permanently injure eye tissue. Temporary vision impairment (cloudy or blurred vision) is possible.

Ingestion Irritation: Severely irritating to mouth, throat, and stomach. Can cause abdominal

discomfort, nausea, vomiting and diarrhea.

Long-Term (Chronic) Health Effects:

Carcinogenicity: Contains a probable or known human carcinogen.

Reproductive and Developmental Toxicity: No data available to indicate product or any components

present at greater than 0.1% may cause birth defects.

Upon prolonged and/or repeated exposure, can cause

severe respiratory irritation, dizziness, weakness, fatigue, nausea, headache and possible unconsciousness.

Upon prolonged or repeated contact, can cause

moderate skin irritation, defatting, and dermatitis. Not

likely to cause permanent damage.

Skin Absorption: Upon prolonged or repeated exposure, harmful if

absorbed through the skin. May cause severe irritation

and systemic damage

Component Toxicological Data:

NIOSH:

Skin Contact:

Chemical Name CAS No. LD50/LC50

Pyridine 110-86-1 Dermal LD50 Rabbit 1000 - 2000 mg/kg;

Inhalation LC50 Rat 12.898 mg/L 4 h (vapor;

Oral LD50 Rat 866 mg/kg

Component Carcinogenic Data:

OSHA:

Chemical Name CAS No.

Pyridine 110-86-1 Present

ACGIH:

Chemical Name CAS No.

Pyridine 110-86-1 A3 - Confirmed Animal Carcinogen with

Unknown Relevance to Humans

NIOSH:

Chemical Name CAS No.

No data available

NTP:

Chemical Name CAS No.

No data available

IARC:

Chemical NameCAS No.Group No.Monograph 119 [in preparation];110-86-1Group 2B

Monograph 77 [2000]

12. ECOLOGICAL INFORMATION

Overview: This material is not expected to be harmful to the ecology.

Mobility:No dataPersistence:No dataBioaccumulation:No dataDegradability:No data

Ecological Toxicity Data: No data available

13. DISPOSAL CONSIDERATIONS

Waste Description of Spent Product: Spent or discarded material is a hazardous waste. Mixing

spent or discarded material with other materials may render the mixture hazardous. Perform a hazardous

waste determination on mixtures.

Disposal Methods: Dispose of by incineration following Federal, State, Local,

or Provincial regulations.

Waste Disposal of Packaging: Comply with all Local, State, Federal, and Provincial

Environmental Regulations.

14. TRANSPORTATION INFORMATION

United States:

DOT Proper Shipping Name: Pyridine UN Number: UN1282 Hazard Class: 3

Packing Group:

International:

IATA Proper Shipping Name: Pyridine UN Number: UN1282 Hazard Class: 3 Packing Group: II

Marine Pollutant: No

Chemical Name	CAS#	Marine Pollutant	Severe Marine Pollutant
No data available			

15. REGULATORY INFORMATION

United States:
Chemical Name
CAS#
CERCLA
SARA 313
SARA EHS
TSCA
313

pyridine
110-86-1
X
X
X
X

The following chemicals are listed on CA Prop 65:

Chemical Name	CAS#	Regulation
Pyridine	110-86-1	Prop 65 Cancer

State Right To Know Listing:

Chemical Name	CAS#	New Jersey	Massachusetts	Pennsylvania	California
pyridine	110-86-1	X	Х	X	Х
1,2,3-	621-71-6	-	-	-	-
Tricaprinoylglycerol					
(Tricaprin)					

16. OTHER INFORMATION

Prior Version Date: 06/16/16

Other Information: Any changes to the SDS compared to previous versions are marked by a vertical

line in front of the concerned paragraph.

References: No data available

Disclaimer: Helix Corporation provides the descriptions, data and information contained herein

in good faith but makes no representation as to its comprehensiveness or

accuracy. It is provided for your guidance only. Because many factors may affect processing or application/use, Helix Corporation recommends you perform an assessment to determine the suitability of a product for your particular purpose prior to use. No warranties of any kind, either expressed or implied, including fitness for a particular purpose, are made regarding products described, data or information set forth. In no case shall the descriptions, information, or data provided be considered a part of our terms and conditions of sale. Further, the descriptions, data and information furnished hereunder are given gratis. No obligation or liability for the description, data and information given are assumed. All such being given

and accepted at your risk.