

Minimum Purity: 97.0%

Additives: None

SYNONYM(S)

2(3H)-Furanone, 5-butyldihydro-
4-Hydroxyoctanoic acid, gamma-lactone
4-Octanolide
5-Butyldihydrofuran-2(3H)-one
Octan-4-olide
gamma-Butylbutyrolactone

SECTION 4. FIRST-AID MEASURES

INHALATION EXPOSURE: Remove to fresh air. Give oxygen and call a physician.

EYE CONTACT: Flush with water for 15 min. Seek medical help if necessary.

SKIN CONTACT: Wash and rinse well with water. Seek medical help if needed.

INGESTION: Administer water and call a physician or poison control center immediately. Do not induce vomiting.

SECTION 5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

CO2, FOAM, DRY CHEMICAL

SPECIAL FIRE FIGHTING PROCEDURES

Use standard fire fighting procedures.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

None.

SECTION 6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED

Standard absorbents can be used.

Clean up with absorbent material.

WASTE DISPOSAL METHOD: Incineration or sanitary landfill in accordance with local, state, and federal regulations.

SECTION 7. HANDLING AND STORAGE

HANDLING

Observe all warnings and precautions listed for the product.

Use in accordance with good manufacturing and industrial hygiene practices. Use product in a properly ventilated work area. Do not eat, drink or smoke while handling product.

STORAGE

Packaging: Glass, Plastic, Aluminum or Phenolic Lined Steel

Store tightly sealed under inert gas in a cool, well-ventilated area.

FIRE PROTECTION

Keep away from heat, sparks, and open flame.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION: Local exhaust preferred. General ventilation required.
RESPIRATORY: Usually not required. Avoid inhaling concentrated vapors.
SKIN: Avoid skin contact. Use chemical resistant gloves.
EYES: Splash-proof safety glasses or goggles.
OTHER PROTECTIVE EQUIPMENT: Safety shower, eye wash

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid
APPEARANCE: colorless to slightly yellow liquid
ODOR DESCRIPTION: coconut character.
BOILING POINT: 234.00 C (EPI 4.0)
VAPOR PRESSURE : 0.041 mmHg (20C, EPI 4.0)
VAPOR DENSITY (Air = 1): > 1
SPECIFIC GRAVITY @ 25C (water = 1): 0.9700:0.9800
SOLUBILITY IN WATER: H2O=3632mg/l @ 25C
FLASH POINT (CC): 240 F 116 C
LOGP : 1.590

SECTION 10. STABILITY AND REACTIVITY

INCOMPATIBILITIES

CONDITIONS TO AVOID: Presents no special reactivity hazard.

MATERIALS TO AVOID: Strong oxidizing agents

HAZARDOUS COMBUSTION PRODUCTS

CO, CO2, smoke and fumes

SECTION 11. TOXICOLOGICAL INFORMATION

ACUTE EFFECTS

Most likely route of entry is through the skin.

Full strength may be irritating to skin and eyes.

IRRITATION DATA

12% in petrolatum produced no irritation or sensitization in humans.

Eye rabbit: slight to well-defined signs of irritation were observed on the treated eyes. All effects were fully reversible within 7 days.

Material tested at 100%.

TOXICITY DATA

LD50 Dermal (rabbit) > 5 g/kg.

LD50 Oral (rat) 4.4 g/kg.

THRESHOLD LIMIT VALUE (TLV): Not established

OSHA PERMISSABLE EXPOSURE LIMIT (PEL): Not established

LISTED AS CARCINOGEN BY NTP, IARC, OR OSHA?: NO

SECTION 12. ECOLOGICAL INFORMATION

GENERAL

Prevent contamination of soil, ground- and surface water.

ECOTOXIC EFFECTS

OECD 301F: 100 mg/l, vehicle, mineral medium. Test mat'l regarded as not

readily but inherently biodegradable. 12% biodegradation on day 3, 46% day 13, 79% day 28, 79% after 30 days.

SECTION 13. DISPOSAL CONSIDERATION

WASTE DISPOSAL METHOD: Incineration or sanitary landfill in accordance with local, state, and federal regulations.

SECTION 14. TRANSPORT INFORMATION

	Class	Pack Group	Sub. Risk	UN No.
Road(U.S.-DOT):	not regulated.			
Air (IATA):	not regulated.			
Sea (IMDG):	not regulated.			

SECTION 15. REGULATORY INFORMATION

REVIEWS, STANDARDS, AND REGULATIONS

This chemical is listed on the following inventories:
TSCA AICS CHINA DSL ECL EINECS(203-208-1) ENCS PICCS
LISTED AS CARCINOGEN BY NTP, IARC, OR OSHA?: NO

SECTION 16. OTHER INFORMATION

DISCLAIMER OF WARRANTIES AND LIMITATION OF LIABILITY

THE INFORMATION IN THIS MSDS WAS OBTAINED FROM SOURCES WHICH WE BELIEVE ARE RELIABLE. HOWEVER, THE INFORMATION IS PROVIDED WITHOUT ANY WARRANTY, EXPRESS OR IMPLIED REGARDING ITS CORRECTNESS.

BEDOUKIAN RESEARCH INC. ("BRI") MAKES NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE WITH RESPECT TO THE INFORMATION OR THE PRODUCT TO WHICH THE INFORMATION REFERS.

BRI'S SOLE AND EXCLUSIVE LIABILITY WITH RESPECT TO PRODUCTS PROVIDED TO BRI'S SATISFACTION TO BE DEFECTIVE OR NONCONFORMING SHALL BE THE REPLACEMENT OF SUCH PRODUCTS WITHOUT CHARGE OR REFUND OF THE PURCHASE PRICE UPON THE RETURN OF SUCH PRODUCTS IN ACCORDANCE WITH BRI'S INSTRUCTIONS. THIS REMEDY, IN THE MANNER PROVIDED HEREIN, SHALL CONSTITUTE FULFILLMENT OF ALL LIABILITIES OF BRI, WHETHER BASED ON CONTRACT, TORT OR OTHERWISE WITH RESPECT TO, OR ARISING OUT OF THE PRODUCTS. BRI SHALL NOT BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL, CONTINGENT OR SPECIAL DAMAGES.

□