

SAFETY DATA SHEET

NEW



Date Issued : 1/9/2014

MSDS No : 8005

GBL Butyrolactone

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: GBL Butyrolactone**PRODUCT DESCRIPTION:** Solvent, Intermediate, Laboratory chemicals, Viscosity adjustors.**CHEMICAL FAMILY:** Lactones**GENERIC NAME:** GBL, 1,4-Lactone, Gamma Hydroxybutyric Acid**MANUFACTURER**

Distributed by Tarr Acquisition, LLC
4115 W. Turney Ave.
Phoenix, AZ 85019
Service Number: 602-233-2000

24 HR. EMERGENCY TELEPHONE NUMBERS

CHEMTREC (US Transportation) :(800) 424 - 9300
CANUTEC (Canadian Transportation) :(613) 996 - 6666

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATIONS**Health:**

Eye Irritation

GHS LABEL

Exclamation
mark

SIGNAL WORD: WARNING**HAZARD STATEMENTS**

H303: May be harmful if swallowed.

PRECAUTIONARY STATEMENT(S)**Prevention:**

P260: Do not breathe dust/fume/gas/mist/vapours/spray.

EMERGENCY OVERVIEW**PHYSICAL APPEARANCE:** Clear, liquid.**POTENTIAL HEALTH EFFECTS****EYES:** Can cause severe eye irritation. Symptoms include stinging, tearing, redness, and swelling of eyes. Can

GBL Butyrolactone

injure eye tissue.

SKIN: No significant signs or symptoms indicative of any health hazard are expected to occur as a result of skin contact. Possible systemic toxicity by skin absorption.

INGESTION: Swallowing small amounts of this material during normal handling operations is not likely to cause harmful effects. Swallowing large amounts may be harmful.

INHALATION: Breathing of vapor or mist is possible. Breathing this material may be harmful. Symptoms usually occur at air concentrations higher than the recommended exposure limits.

REPRODUCTIVE TOXICITY

REPRODUCTIVE EFFECTS: Based on the available information, risk to the fetus from maternal exposure to this material cannot be assessed.

CARCINOGENICITY: None of the components present in this material listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

MEDICAL CONDITIONS AGGRAVATED: No data

TARGET ORGAN STATEMENT: No data

CANCER STATEMENT: This material is not listed as a carcinogen by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP), or the Occupational Safety and Health Administration (OSHA).

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Vol. %	CAS
GAMMA BUTYROLACTONE	>= 90 - 100	96-48-0

4. FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of water for at least 15 minutes while holding eyelids open. Get medical attention, if irritation occurs or persists.

SKIN: Remove contaminated clothing. Wash affected areas with soap and water. See a physician if irritation develops.

INGESTION: Call poison control center or get medical help immediately. Only induce vomiting as directed by medical personnel and only if patient is conscious and alert. Never give anything by mouth to an unconscious person.

INHALATION: If symptoms develop, move victim to fresh air. If symptoms persist, obtain medical attention.

5. FIRE FIGHTING MEASURES

FLAMMABLE CLASS: Combustible Liquid Class IIIB.

EXTINGUISHING MEDIA: Carbon dioxide (CO₂), Dry chemical, Water Spray

FIRE FIGHTING PROCEDURES: Wear full firefighting turn-out gear (full Bunker gear), and respiratory protection (SCBA). Do not direct a solid stream of water or foam into hot, burning pools of liquid since this may cause frothing and increase fire intensity. Frothing can be violent and possibly endanger any firefighter standing too close to the burning liquid. Use water spray to cool fire exposed containers and structures until fire is out if it can be done with minimal risk. Avoid spreading burning material with water used for cooling purposes.

GBL Butyrolactone

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide and other hydrocarbons, nitrogen oxides (NO_x), toxic fumes.

6. ACCIDENTAL RELEASE MEASURES**ENVIRONMENTAL PRECAUTIONS**

LAND SPILL: Prevent spreading over a wide area (e.g. by containment or oil barriers). Do not allow product to enter drains. Do not flush into surface water or sanitary sewer system.

GENERAL PROCEDURES: Soak up with inert material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

SPECIAL PROTECTIVE EQUIPMENT: Wear suitable protective clothing. Floor may be slippery. Use care to avoid falling. See Personal Protection information in Section 8.

7. HANDLING AND STORAGE

HANDLING: Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed.

STORAGE: Store in a cool, dry, ventilated area.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known or suspected or apparent adverse health effects. Ensure adequate ventilation, especially in confined areas. Exposure Guidelines: Contains no substances with occupational exposure limit values.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Use chemical safety goggles and/or full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work areas.

SKIN: Wear resistant gloves (consult your safety equipment supplier). To prevent repeated or prolonged skin contact, wear impervious clothing and boots.

RESPIRATORY: Respiratory protection is not required under normal conditions of use.

COMMENTS: Selection of appropriate personal protective equipment should be based on an evaluation of the performance characteristics of the protective equipment relative to the task(s) to be performed, conditions present, duration of use, and the hazards and/or potential hazards that may be encountered during use. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Use good personal hygiene practices.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

ODOR: Mild odor.

COLOR: Clear

pH: 4.5

Notes: @ 10%

FLASHPOINT AND METHOD: 106°C (223°F)

GBL Butyrolactone

FLAMMABLE LIMITS: 2 % Vol to 12.6 % Vol

AUTOIGNITION TEMPERATURE: 435°C (815°F)

VAPOR PRESSURE: 0.344 hPa at 20°C (68°F)

BOILING POINT: 204.6°C (400.3°F)

MELTING POINT: -44°C (-47°F) to -42°C (-44°F)

SOLUBILITY IN WATER: Completely miscible

DENSITY: 1.124 at 25°C (77°F)

VISCOSITY: dynamic

10. STABILITY AND REACTIVITY

STABLE: Yes

HAZARDOUS POLYMERIZATION: No

STABILITY: Stable under normal conditions.

POLYMERIZATION: Product will not undergo polymerization.

CONDITIONS TO AVOID: Avoid heat, sparks, open flames and other ignition sources.

HAZARDOUS DECOMPOSITION PRODUCTS: Burning may produce carbon dioxide, carbon monoxide, nitrogen oxides.

INCOMPATIBLE MATERIALS: Strong oxidizers.

11. TOXICOLOGICAL INFORMATION**ACUTE**

DERMAL LD₅₀: > 5 g/kg (Guinea pig)

ORAL LD₅₀: 1582 ml/kg (rat)

INHALATION LC₅₀: > 5.1 mg/l (rat), 4 hour(s)

SENSITIZATION: Test Method: Buehler Test

Species: Mouse

Result: Did not cause sensitization on laboratory animals.

GENETIC EFFECTS: None Expected.

REPRODUCTIVE EFFECTS: None Expected.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: Biodegradation: 95% (14 d), Readily biodegradable

BIOACCUMULATION/ACCUMULATION: Partition coefficient: n-octanol/water: log Pow: -0.566 (25°C)

COMMENTS: Butyrolactone - Surface Tension: 0.05 mN/m

13. DISPOSAL CONSIDERATIONS

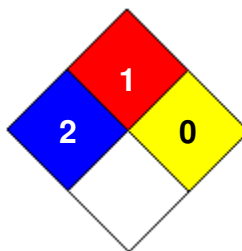
DISPOSAL METHOD: Dispose of waste material according to local, State, Federal, and Provincial Environmental

GBL Butyrolactone

Regulations.

14. TRANSPORT INFORMATION**DOT (DEPARTMENT OF TRANSPORTATION)****PROPER SHIPPING NAME:** NOT DOT REGULATED**15. REGULATORY INFORMATION****UNITED STATES****SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)****311/312 HAZARD CATEGORIES:** This product should be reported as an immediate (acute) health hazard.**FIRE:** No **PRESSURE GENERATING:** No **REACTIVITY:** No **ACUTE:** Yes **CHRONIC:** No**313 REPORTABLE INGREDIENTS:** To the best of our knowledge, this product is not listed as a toxic chemical under Section 313 of SARA Title III.**TSCA (TOXIC SUBSTANCE CONTROL ACT)****TSCA STATUS:** Listed.**CALIFORNIA PROPOSITION 65:** This product does not contain any chemicals known to the state of California to cause cancer, birth defects, or any other reproductive harm.**16. OTHER INFORMATION****REASON FOR ISSUE:** Updated SDS information and changed to new format.**PREPARED BY:** Compliance**HMIS RATING**

HEALTH		2
FLAMMABILITY		1
PHYSICAL HAZARD		0
PERSONAL PROTECTION		

NFPA CODES**NFPA STORAGE CLASSIFICATION:** These ratings are part of a specific hazard communication program and should be disregarded where individuals are not trained in the use of this hazard rating system. You should be familiar with the hazard communication programs applicable to your workplace.**HMIS RATINGS NOTES:** The HMIS rating involves data interpretations that may vary from company to company. They are intended only for rapid, general identification of the magnitude of the specific hazard. To deal adequately with the safe handling of this material, all the information contained in the SDS must be considered.**MANUFACTURER DISCLAIMER:** The information contained herein is based on the data available to us and is believed to be accurate. However, Tarr Acquisition, LLC (Tarr, LLC) makes no warranty, expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. Tarr, LLC assumes no responsibility for injuries from the use of the product described herein.