

SAFETY DATA SHEET



Date Prepared : 01/25/2008

MSDS No : 8000

GAMMA BUTYROLACETONE

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: GAMMA BUTYROLACETONE**ALTERNATE TRADE NAME(S):** GBL, Dihydro-2(3H)-furanone, 1,2-Butanolide, 1,4-Butanolide, 4-Hydroxybutanoic acid lactone, gamm-Hydroxybutyric acid lactone**MANUFACTURER**

Distributed by Tarr Acquisition, LLC

4115 W. Turney Ave.

Phoenix, AZ 85019

Product Stewardship: 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:**

Acute Toxicity (Oral), Category 4

Serious Eye Damage, Category 1

Target Organ Toxicity (Single exposure), Category 3

GHS LABEL

Corrosion

Exclamation
mark**SIGNAL WORD: DANGER****HAZARD STATEMENTS**

H302: Harmful if swallowed.

H318: Causes serious eye damage.

H336: May cause drowsiness or dizziness.

PRECAUTIONARY STATEMENT(S)**Prevention:**

P261: Avoid breathing dust/fumes/gas/mist/vapours/spray.

P270: Do not eat, drink or smoke when using this product.

P271: Use only outdoors or in a well-ventilated area.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

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P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P304+P340: IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

P403+P233: Store in a well-ventilated place. Keep container tightly closed.

EMERGENCY OVERVIEW

IMMEDIATE CONCERNS: DANGER! May be fatal if swallowed. Toxic if inhaled. Causes severe skin burns and eye damage. May be corrosive to metals. May cause damage to bones and teeth through prolonged or repeated exposure. Highly flammable liquid and vapor.

POTENTIAL HEALTH EFFECTS

EYES: May cause eye irritation.

SKIN: May cause skin irritation.

INGESTION: May cause digestive tract disturbances. The toxicological properties of this substance have not been fully investigated. May be harmful if swallowed.

INHALATION: May cause respiratory tract irritation. The toxicological properties of this substance have not been fully investigated.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS
2(3H)-Furanone, dihydro-	> 99	96-48-0

4. FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get immediate medical attention.

SKIN: Immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing. Call a physician if irritation develops. Wash clothing before reuse.

INGESTION: Never give anything by mouth to an unconscious or convulsive person. If swallowed, do not induce vomiting. Give large amounts of water. If vomiting occurs spontaneously, keep airway clear. Give more water when vomiting stops. GET MEDICAL ATTENTION IMMEDIATELY.

INHALATION: Remove from exposure to fresh air. If not breathing, give artificial respiration or if breathing is difficult, oxygen should be administered by qualified personnel. Get medical aid if cough or other symptoms appear.

5. FIRE FIGHTING MEASURES

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

FIRE FIGHTING EQUIPMENT: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon oxides, Combustible Liquid.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Absorb liquid on vermiculite, floor absorbent, or other absorbent material, then place in container for chemical waste. Flush spill area with water spray. Prevent run-off from entering drains, sewers or streams.

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GENERAL PROCEDURES: Do not release into the environment or public sewage without consulting local authorities and obtaining all applicable permits and notification requirements. Prevent further leakage or spillage if safe to do so.

7. HANDLING AND STORAGE

GENERAL PROCEDURES: Avoid direct or prolonged contact with skin or eyes. Avoid breathing mists, dusts, or vapors. Wash hands thoroughly after handling. Store in a closed container.

STORAGE: Store in a cool, dry, ventilated area, away from incompatible substances.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: Ensure adequate ventilation to maintain exposures below occupational limits. Provide appropriate exhaust ventilation at machinery and at places where dust can be generated.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Chemical goggles/face shield.

SKIN: S36/37: Wear suitable protective clothing and gloves.

RESPIRATORY: A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

PROTECTIVE CLOTHING: Body protection must be chosen depending on activity and possible exposure, e.g. head protection, apron, protective boots, chemical-protection suit.

WORK HYGIENIC PRACTICES: Use good personal hygiene when handling this product. Wash hands after use, before eating, drinking, smoking, or using the toilet.

COMMENTS: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

APPEARANCE: Clear

COLOR: Colorless.

pH: 4

Notes: @ g/l at 20°C (68°F)

FLASHPOINT AND METHOD: 98°C (208°F) CC

FLAMMABLE LIMITS: 1.4% to 16%

VAPOR PRESSURE: 2 hPa at 20°C (68°F)

VAPOR DENSITY: 2.97 (Air=1)

BOILING POINT: (399°F) to (401°F)

DENSITY: 9.5 at (60°F)

SPECIFIC GRAVITY: 1.14 at (60°F)

(VOC): 99.000

10. STABILITY AND REACTIVITY

GAMMA BUTYROLACETONE

STABILITY: Stable under ordinary conditions of use and storage. Hygroscopic and basic.

INCOMPATIBLE MATERIALS: Avoid contact with strong acids, strong bases, and oxidizing agents.

11. TOXICOLOGICAL INFORMATION**ACUTE**

DERMAL LD₅₀: 5000 mg/kg (guinea pig)

ORAL LD₅₀: 1540 mg/kg (rat)

INHALATION LC₅₀: > 51000 mg/l (rat), 4 hour(s)

12. ECOLOGICAL INFORMATION**AQUATIC TOXICITY (ACUTE)**

96-HOUR LC₅₀: > 220 mg/L

48-HOUR EC₅₀: > 500 mg/l/48 hr, freshwater invertebrate: *Daphna magna* (water flea).

96-HOUR EC₅₀: 360 mg/l (green algae)

GENERAL COMMENTS: Readily biodegradable.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Destroy by liquid incineration. Contaminated absorbent may be deposited in a landfill in accordance with local, state and federal 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, delayed (chronic) health hazard

FIRE: No **PRESSURE GENERATING:** Yes **REACTIVITY:** Yes **ACUTE:** Yes **CHRONIC:** Yes

313 REPORTABLE INGREDIENTS: To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.

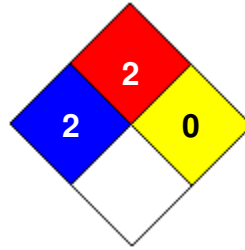
CALIFORNIA PROPOSITION 65: The following statement is made in order to comply with the California Safe Drinking Water and Toxic Enforcement Act of 1986. This product contains no chemicals known to the state of California to cause cancer.

16. OTHER INFORMATION

PREPARED BY: Compliance **Date Prepared:** 01/25/2008

GAMMA BUTYROLACETONE**HMIS RATING**

HEALTH	<input type="text"/>	2
FLAMMABILITY	<input type="text"/>	2
PHYSICAL HAZARD	<input type="text"/>	0
PERSONAL PROTECTION	<input type="text"/>	

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.

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