

HEALTH	2
FLAMMABILITY	2
REACTIVITY	0

## Section 1: IDENTIFICATION

Product Name: **Butyl Lactate, Natural**  
 Product Number: 0220500  
 CAS No.: 138-22-7


Recommended Use: Flavorings

Manufacturer: Aurochemicals  
 7 Nicoll Street  
 Washingtonville, NY 10992 – USA  
 845-496-6065  
 845-496-6248 Fax

Emergency Telephone No.: 1-800-535-5053  
 (International 1-352-323-3500 collect)

## Section 2: HAZARD(s) IDENTIFICATION

OSHA Hazards: Combustible liquid, Irritant  
 GHS Classification: Flammable liquids (Category 4)  
 Skin irritation (Category 2)  
 Eye irritation (Category 2A)  
 Specific target organ toxicity-Single exposure (Category 3) Respiratory System  
 Acute aquatic toxicity (Category 3)

GHS Label elements, including precautionary statements  
 Pictogram: 

Signal Word: Warning

Hazard Statement(s):  
 H227 Combustible liquid  
 H315 Causes skin irritation  
 H319 Causes serious eye irritation  
 H335 May cause respiratory irritation  
 H402 Harmful to aquatic life

Precautionary Statement(s):  
 P261 Avoid breathing dust/fume/gas/mist/vapors/spray  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

HMIS Classification: Health Hazard 2  
 Flammability 2  
 Physical Hazards 0

### Potential Health Effects

Inhalation May be harmful if inhaled. Causes respiratory tract irritation  
 Skin May be harmful if absorbed through skin. Causes skin irritation  
 Eyes Causes eye irritation  
 Ingestion May be harmful if swallowed

## Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Formula  $C_7H_{14}O_3$   
 Molecular Weight 146.18 g/mol  
 CAS # 138-22-7  
 EC# 205-316-4

Component	Concentration
Butyl lactate	-
CAS-No. 138-22-7 EC-No. 205-316-4	

## Section 4: FIRST AID MEASURES

General Advise: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

Contact with eyes: Rinse thoroughly with plenty of water for at least 15 minutes and seek medical advice.

Contact with skin: Remove contaminated clothing. Rinse skin with cool water then wash with plenty of mild soap and warm water. Consult a physician

Inhalation: Provide fresh air, Consult a physician

Ingestion: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water, seek medical advice, show this container or label to attending physician

Clothing contamination: Wash contaminated clothing before re-use

## Section 5: FIREFIGHTING MEASURES

Suitable extinguishing media For small (incipient) fires, use media such as alcohol foam, dry chemical or carbon dioxide. For large fires, apply water from as far away as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all containers with flooding quantities of water.

Special protective equipment for firefighters Wear self contained breathing apparatus for firefighting if necessary

Other Information Hazardous decomposition products formed under fire conditions – Carbon oxides. Use water spray to cool unopened containers.

## Section 6: ACCIDENTAL RELEASE MEASURES

Personal precautions Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe area. Remove all sources of ignition. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Environmental-protected measures	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Procedures for cleaning / absorption	Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal
Ventilate area	After sweep up, wash area and ventilate area well

## Section 7: HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapors or mist. Keep away from sources of ignition. Take measures to prevent the build-up of electrostatic charge.
Conditions for safe storage	Keep container tightly closed in a dry and well-ventilated place.

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with work place control parameters

Component	CAS -No	Value	Control Parameters	Basis
Butyl lactate	138-22-7	TWA	5 ppm	USA. ACGIH Threshold Limit Values (TLV)
Remarks: Upper Respiratory Tract irritation, Headache				
		TWA	5 ppm 25 mg/m <sup>3</sup>	USA. OSHA – Table Z-1 Limits for Air Contaminants – 1910.1000
		TWA	5 ppm 25 mg/m <sup>3</sup>	USA. NOISH Recommended Exposure Limits

Personal Protective Equipment:	<b>These recommendations are advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. They should not be construed as offering an approval for any specific use scenario.</b>
Body Protection:	Clothing protecting against chemicals should be selected specifically for the work place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier
Respiratory Protection:	Where risk assessment shows air-purifying respirators are appropriate use a full face respirator with multi-purpose combination (US) or type ABEK (EN1437) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full face supplied air respirator. Tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU)
Eye Protection:	Wear appropriate safety glasses with side shields. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).
Hand Protection:	Wear chemically resistant Butyl rubber gloves 0.11 mm thick and use proper glove removal techniques to avoid skin contact with this product. Wash and dry hands after handling this product.
Industrial Hygiene:	Handle in accordance with good industrial hygiene and safety practice. Wash contaminated clothing before reuse. Wash hands after working with product and at the

end of the work day.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Form:	Liquid, clear
Color:	Colorless to pale yellow liquid
Odor:	Characteristic Odor
Melting Point	-28°C
Boiling Point:	185°C
Flashpoint:	69°C
Ignition temperature	382°C
Lower Explosion Limit	No data available
Upper Explosion Limit	No data available
Vapor Pressure:	0.5 hPa at 20°C
Specific Gravity @ 25°C:	0.974-0.984
Solubility	Slightly soluble in water
Relative vapor density	5.05 (Air = 1.0)

## Section 10: STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions
Possibility of Hazardous reactions	No data available
Conditions to avoid	Heat, Flame, Sparks
Materials to avoid	Strong Oxidizing Agents, Strong Bases
Hazardous decomposition products	Hazardous decomposition products formed under fire conditions-Carbon oxides.

## Section 11: TOXICOLOGICAL INFORMATION

LD50, Oral Rat	>5,000 mg/kg
LC50 Inhalation	No data available
LD50 Dermal	No data available

### Further toxicological information

LD50 Subcutaneous-Rat	12,000 mg/kg
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Skin corrosion / irritation	No data available
Serious eye damage / eye irritation	No data available
Respiratory or skin sensitization	No data available
Germ cell mutagenicity	No data available

### Carcinogenicity

IARC	No component of this product, present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH	No component of this product, present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP	No component of this product, present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA	No component of this product, present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity	No data available
Specific target organ toxicity-Single Exposure (GHS)	Inhalation – May cause respiratory irritation
Specific target organ toxicity-Repeated Exposure (GHS)	No data available
Aspiration hazard	No data available
Potential health effects	Inhalation May be harmful if inhaled. Causes respiratory tract irritation Ingestion May be harmful if swallowed Skin May be harmful if absorbed through skin. Causes skin irritation Eyes Causes eye irritation
Synergistic effects	No data available
RTECS	OD4025000
Additional information	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated

**Section 12: ECOLOGICAL INFORMATION**

Toxicity	
Toxicity to fish	LC50-Danio rerio (zebra fish) – 75 mg/l – 96h Mortality NOEC – Danio rerio (zebra fish) 56 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates	EC50 – Daphnia magna (Water Flea) 320 mg/l – 48 h
Other adverse effects	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life.

**Section 13: DISPOSAL CONSIDERATIONS**

Product:	According to local regulations
Packaging:	According to local regulations

**Section 14: TRANSPORT INFORMATION**

<b>DOT (US)</b>	NA-Number 1993 Class CBL Packing Group II
Proper shipping name	Combustible Liquid, n.o.s. (Butyl Lactate)
Marine Pollutant	No
Poison inhalation hazard	No
<b>IMDG</b>	Not dangerous goods
<b>IATA</b>	Not dangerous goods

**Section 15: REGULATORY INFORMATION**

OSHA Hazards	Combustible Liquid, Irritant
SARA 302	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

# Safety Data Sheet



SARA 313 Components	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.		
SARA 311/312 Hazards	Fire Hazard, Acute Health Hazard		
Massachusetts Right to Know Components	No components are subject to the Massachusetts Right to Know Act		
Pennsylvania Right to Know Components	Butyl lactate	CAS # 138-22-7	Rev. Date: 4/1/1994
New Jersey Right to Know Components	Butyl lactate	CAS # 138-22-7	Rev. Date: 4/1/1994
California Prop. 65 Components	This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.		

## Section 16: OTHER INFORMATION

Aurochemicals provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. Aurochemicals makes no representations or warranties, either expressed or implied, including without limitation any warranties of merchantability, fitness for a particular purpose with respect to the information set forth herein or the product to which the information refers. Accordingly, Aurochemicals will not be responsible, nor held liable, for damages resulting from use of or reliance upon this information.

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