

Section 1. Product and Company Identification

**Product Name** n-Butyl Lactate  
**CAS Number** 138-22-7

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Collect Calls Accepted

Section 2. Hazards Identification

**Classification of the substance or mixture**

**Classification according to Directive 67/548/EEC or Directive 1999/45/EC**

Xi; Irritant

R36/37/ 38: Irritating to eyes, respiratory system and skin.

**Labelling according to EU guidelines**

**Code letter and hazard designation of product:** Xi Irritant

**Risk phrases**

36/ 37/ 38 Irritating to eyes, respiratory system and skin.

**Safety phrases**

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

37 Wear suitable gloves

**GHS Label Elements**

**Pictograms:**



**Signal word:** Warning

**Hazard and precautionary statements**

**Hazard Statements**

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H227 Combustible liquid.



**WHMIS classification**

**Classification system**

**HMIS Rating**

**Health:** 1

**Flammability:** 2

**Reactivity:** 1

**Health (acute effects):** 1

**Flammability:** 2

**Reactivity:** 1

**Results of PBT and vPvB assessment**

**PBT:** Not applicable

**vPvB:** Not applicable

Section 3. Composition / Information on Ingredients

**Common Name** n-Butyl Lactate

**CAS Number** 138-22-7

Section 4. First Aid Measures

**Description of first-aid measures**

**Inhalation:** Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice.

**Skin Contact:** Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice.

**Eye Contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.

**Ingestion:** Seek immediate medical advice.

Section 5. Firefighting Measures

**Extinguishing media**

**Suitable extinguishing agents:** Carbon dioxide, extinguishing powder, or water spray. Fight larger fires with water spray or alcohol resistant foam.

**Special hazards arising from the substance or mixture**

In case of fire, the following can be released: Carbon monoxide and carbon dioxide

**Advice for firefighters**

**Protective equipment:** Wear self-contained respirator. Wear fully protective impervious suit.



## Section 6. Accidental Release Measures

**Personal precautions, protective equipment, and emergency procedures:** Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation

**Environmental precautions:** Do not allow material to be released to the environment without proper governmental permits.

**Methods and material for containment and cleaning up:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation.

### Reference to other sections

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## Section 7. Handling and Storage

### Handling

**Precautions for safe handling:** Keep container tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation at the workplace.

**Information about protection against explosions and fires:** Keep ignition sources away.

### Conditions for safe storage, including any incompatibilities

#### Storage

**Requirements to be met by storerooms and receptacles:** No special requirements.

**Information about storage in one common storage facility:** Store away from oxidizing agents.

**Further information about storage conditions:** Keep container tightly sealed. Store in cool, dry conditions in well-sealed containers.

## Section 8. Exposure Controls / Personal Protection

### Exposure controls/personal protection

**Additional information about design of technical systems:** Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.

### Components with limit values that require monitoring at the workplace:

n-Butyl Lactate

**ACGIH TLV:** 5 ppm

**Belgium TWA:** 5 ppm

**Denmark TWA:** 5 ppm

**Finland TWA:** 1 ppm

**Finland STEL:** 3 ppm

**Korea TLV:** 5 ppm



**Netherlands MAC-TGG:** 5 ppm

**Norway TWA:** 5 ppm

**Switzerland MAK-W:** 5 ppm

**United Kingdom TWA:** 5 ppm

**USA PEL:** 1 ppm

#### Control parameters

**Components with limit values that require monitoring at the workplace:**

**Additional information:** No data

#### Exposure controls

##### Personal protective equipment

**General protective and hygienic measures:** The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

**Breathing equipment:** Use suitable respirator when high concentrations are present.

**Protection of hands:** Check protective gloves prior to each use for their proper condition.

Impervious gloves

**Material of gloves:** The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer.

**Eye protection:** Safety glasses

**Body protection:** Protective work clothing.

#### Section 9. Physical and Chemical Properties

##### Information on basic physical and chemical properties

###### General Information

**Form:** Liquid

**Color:** Colorless

**Odor:** Not determined

**Odor threshold:** Not determined

**pH Value:** Not determined

**Melting point/Melting range:** Not determined

**Boiling point/Boiling range:** 185 - 187°C (365 - 369°F)

**Sublimation temperature/start:** Not determined

**Flash point:** 69°C (156°F)

**Flammability (solid, gaseous):** Not applicable

**Ignition temperature:** Not determined

**Decomposition temperature:** Not determined

**Auto-igniting:** Not determined

**Danger of explosion:** Product does not present an explosion hazard.



**Explosion limits**

**Lower:** Not determined

**Upper:** Not determined

**Vapor pressure:** Not determined

**Density (20°C/68°F):** 0.984 g/cm<sup>3</sup> (8.211 lbs/ gal)

**Relative density:** Not determined.

**Vapor density:** Not determined.

**Evaporation rate:** Not determined.

**Segregation coefficient (n-Octanol/water):** Not determined.

**Viscosity**

**Dynamic:** Not determined.

**Kinematic:** Not determined.

**Other information:** No further relevant information available.

Section 10. Stability and Reactivity

**Reactivity**

**Chemical stability**

**Thermal decomposition/conditions to be avoided:** Decomposition will not occur if used and stored according to specifications.

**Possibility of hazardous reactions:** No dangerous reactions known

**Incompatible materials:** Oxidizing agents

**Hazardous decomposition products:** Carbon monoxide and carbon dioxide

Section 11. Toxicological Information

**Information on toxicological effects**

**Acute toxicity**

| LD/LC50 values that are relevant for classification |          |                     |
|-----------------------------------------------------|----------|---------------------|
| Oral                                                | LD50     | 11 g/kg (Mouse)     |
|                                                     |          | > 5 g/kg (Rat)      |
|                                                     |          | > 5 g/kg (Rabbit)   |
| Dermal                                              | LD50     | > 5 g/kg (Rabbit)   |
| Irritation of skin                                  | Moderate | 500 mg/24h (Rabbit) |

**Primary irritant effect**

**on the skin:** Irritant to skin and mucous membranes.

**on the eye:** Irritating effect.

**Sensitization:** No sensitizing effects known.

**Sub-acute to chronic toxicity:** The Registry of Toxic Effects of Chemical Substances (RTECS)



reports the following effects in laboratory animals:  
Peripheral Nerve and Sensation - flaccid paralysis without anesthesia.  
Behavioral - somnolence (general depressed activity).  
Lungs, Thorax, or Respiration - dyspnea.

**Additional toxicological information:** To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.  
No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA, or ACGIH.

#### Section 12. Ecological Information

##### **Toxicity**

**Aquatic toxicity:** No further relevant information available.

**Persistence and degradability:** No further relevant information available.

**Behavior in environmental systems:** Bioaccumulative potential No further relevant information available.

**Mobility in soil:** No further relevant information available.

##### **Additional ecological information**

**General notes:** Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. Do not allow material to be released to the environment without proper governmental permits.

##### **Results of PBT and vPvB assessment**

**PBT:** Not applicable.

**vPvB:** Not applicable.

**Other adverse effects:** No further relevant information available.

#### Section 13. Disposal Considerations

**Waste Treatment Methods:** Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

#### Section 14. Transport Information

##### **Transport information**

Not a hazardous material for transportation.

##### **DOT regulations**

**Hazard class:** None

##### **Land transport ADR/RID (cross-border)**

**ADR/RID class:** None



**Maritime transport IMDG**

**IMDG Class:** None

**Marine pollutant:** No

**Air transport ICAO-TI and IATA-DGR**

**ICAO/IATA Class:** None

**Special precautions for user:** Not applicable.

**Transport/Additional information:** Not dangerous according to the above specifications.

**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:** Not applicable.

Section 15. Regulatory Information

**Safety, health, and environmental regulations/legislation specific for the substance or mixture**

**Product related hazard information**

**Hazard symbols:** Xi Irritant

**Risk phrases**

36/37/38 Irritating to eyes, respiratory system, and skin.

**Safety phrases**

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

37 Wear suitable gloves.

**National regulations**

All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory.

All components of this product are listed on the Canadian Domestic Substances List (DSL).

**Information about limitation of use:** For use only by technically qualified individuals.

**Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

Section 16. Other Information

**Disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

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