

# SAFETY DATA SHEET

## LAURYL GLUCOSIDE

### 1. PRODUCT INFORMATION AND COMPANY IDENTIFICATION

Product Name: Lauryl Glucoside

Company: Natural Bulk Supplies, 318 Half Day Rd, # 348,  
Buffalo Grove, IL 60089 Phone: 847-489-7180

Emergency Contact: Infotrac: 800-535-5053(North America) +1-352-323-3500 (International)

### 2. HAZARD IDENTIFICATION

| Warning word                   | Warning   |
|--------------------------------|---|
| Hazard Statements              | Precautionary statements  |
| H315 Causes skin irritation    | Prevention  |
| H318 Causes serious eye damage | P264 Wash...thoroughly after handling. P280 Wear protective gloves/protective clothing/ eye protection/face protection. |

#### Hazard Pictogram



#### GHS05

##### Response

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/physician.

P332+P313 If skin irritation occurs. Get medical attention/advice

P362 Take off contaminated clothing and wash before reuse.

Storage – Not applicable.

Disposal – Not applicable.

**Labeling according to 1999/45/EC (DPD)**

**Symbols and indication of Danger:**



**Irritant**

**Risk phrases**

R38: Irritating to skin.

R41: Risk of serious damage to eyes

**Safety phrase**

**S2**

Keep out of the reach of children.

**S26**

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

**S39**

Wear eye/face protection.

**Specific concentration limits**

None

**Classification of the mixture**

Classification according to Regulation (EC) No 1272/2008  
[CLP]

Hazard classes and Hazard categories

Skin Irrit. 2

Eye Dam. 1

Classification according to 1999/45/EC

Xi; R41

**Additional information**

For full text of R-,H-phrases: see Section 16

**Other hazards**

Not known to our knowledge.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

| INCI NAME                  | CAS NO.      | CONCENTRATION (%) |
|----------------------------|--------------|-------------------|
| C12-14 alkyl polyglucoside | 110615-47- 9 | 50                |
| Water                      | 7732-18-5    | 50                |

### 4. FIRST AID MEASURES

#### Description of first aid measures

##### First-aid measures general

No general information.

##### Following inhalation

Immediately call a POSIN CENTER or doctor/physician. Move victim to fresh air.

Give artificial respiratory if victim is not breathing.

Administer oxygen if breathing is difficult.

Keep victim warm and quiet.

##### Following skin contact

If skin irritation occurs: Get medical advice/attention.

Take off contaminated clothing and wash before reuse.

In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.

For hot product, immediately immerse in or flush the affected area with large amounts of cold water to dissipate heat.

Remove and isolate contaminated clothing and shoes.

For minor skin contact, avoid spreading material on unaffected skin.

#### Most important symptoms and effects, both acute and delayed:

##### Symptoms/injuries

No general information.

##### Symptoms/injuries after inhalation

The material is not thought to produce either adverse health effects or irritation of the respiratory tract following inhalation (as classified by EC Directives using animal models).

Nevertheless, adverse systemic effects have been produced following exposure of animals by at least one other route and good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in a n occupational setting. Inhalation of vapors may cause drowsiness and dizziness. This may be accompanied by sleepiness, reduced alertness, loss of reflexes, lack of co-ordination, and vertigo

**Symptoms/injuries after eye contact**

If applied to the eyes, this material causes severe eye damage. Non-ionic surfactants can cause numbing of the cornea, which masks discomfort normally caused by other agents and leads to corneal injury. Irritation varies depending on the duration of contact, the nature and concentration of the surfactant. At very high concentrations, alkyl polyglycolides and polygonatoside's are eye irritants while some C8 alkyl glycoside solutions may produce serious eye damage.

**Symptoms/injuries after ingestion**

Accidental ingestion of the material may be damaging to the health of the individual. Nonionic surfactants may produced localized irritation of the oral or gastrointestinal lining and induce vomiting and mild diarrhea.

**Indication of any immediate medical attention and special treatment needed:**

Treat symptomatically.

**5. FIRE FIGHTING MEASURES**

**Extinguishing media**

**Suitable extinguishing media**

Alcohol Form, Carbon Dioxide, Water Spray, Use dry sand or earth to smother fire.

**Unsuitable extinguishing media**

None known.

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

Special hazards arising from the substance or mixture

**Hazardous combustion products**

Pungent and toxic gas can be formed by thermal decomposition and combustion while burning.

Containers may explode on heating. Some may burn but none ignite readily.

Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes.

**Advice for fire-fighters**

**Fire Fighting**

Rescuers must use appropriate protective equipment.

Fight fire from a safe distance and from protected locations.

Substance may be transported in a molten form.

Dike fire-control water for later disposal; do not scatter the material. Move containers from fire area if you can do it without risk.

**Fire involving Tanks**

Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.

**Fire involving Tanks**

Cool containers with flooding quantities of water until well after fire is out. Fire involving Tanks: Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.

Fire involving Tanks: ALWAYS stay away from tanks engulfed in fire.

Fire involving Tanks: For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn.

**Fire/Explosion Hazard**

No additional information available.

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures**

**For non-emergency personnel**

**Protective equipment**

Wear proper protective equipment.

**Emergency procedures**

Wipe up spilled materials and follow precaution of protective equipment.

Avoid all possible sources of ignition (halogen, Spark, flame).

Stop leak if you can do it without risk.

Do not touch damaged packages or spilled material without proper protective clothing. Be aware of incompatible materials and conditions.

**For emergency responders Personal protective equipment**

Compatible chemical-resistant gloves.

Chemical safety goggles.

**Environmental precautions**

Do not allow to enter drains, sewers or watercourses.

**Methods and material for containment and cleaning up:**

**For containment**

Cover spill with plastic sheet to minimize spreading.

**For cleaning up**

Contain spillage with sand, earth or any suitable adsorbent material and transfer used material to a suitable waste container.

Wash the spillage area clean with water and detergent.

**Other information**

No additional information available.

**Reference to other sections**

See Section 8 for information on personal protection equipment. See Section 13 for information on disposal.

**7. HANDLING AND STORAGE**

**Precautions for safe handling**

**Protective measures**

Follow all SDS and label precautions even after container is emptied because they may contain product residues.

Avoid repeated or prolonged skin exposure.

Refer to engineering control and personnel protection.

Advice on general occupational hygiene No additional information available.

**Conditions for safe storage including any incompatibilities**

**Suitable container**

Flush empty drums thoroughly with water, crush or perforate and discard or give to a drum reconditioner.

**Storage incompatibility**

Be aware of incompatible materials and conditions.

**Storage conditions**

No additional information available.

**Specific end use(s)**

No additional information available.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

Occupational exposure limits

No workplace exposure limit assigned.

Biological limit values

No information available.

Exposure limit at intended use

No information available.

DNEL/DMEL and PNEC-Values

**DN(M)EL Worker:**

| DNEL Type | DNEL Value | Remark |
|-----------|------------|--------|
|-----------|------------|--------|

DNEL short-term oral (acute)  
DNEL long-term oral (repeated)  
DNEL acute dermal, short-term (local)

Assessment of hazard sufficiency coverage by derivation of the respective DNEL for long-term exposure.

**DNEL acute dermal, short-term (systemic)**

Assessment of hazard sufficiently coverage by derivation of the respective DNEL for long-term exposure.

**DNEL long-term dermal (local)**

Due to the known irritating potential of the undiluted test substances it is common to use personal protective equipment like gloves to avoid dermal contact there with considering local DNELs as obsolete.

**DNEL long-term dermal (systemic)**

595,000 mg/kg bw/day

**DNEL acute inhalative (local)**

Assessment of hazard sufficiently coverage by derivation of the respective DNEL for long-term exposure.

**DNEL acute inhalative (systemic)**

Assessment of hazard sufficiently coverage by derivation of the respective DNEL for long-term exposure.

**DNEL long-term inhalative (local)**

Assessment of hazard not assignable due to missing/insufficient data.

**DNEL long-term inhalative (systemic)**

420 mg/m<sup>3</sup>

**DN(M)EL General population:**

| DNEL Type                              | DNEL Value           | Remark   |
|--|----------------------|--|
| DNEL short-term oral (acute)           |                      | Assessment of hazard sufficiently covered by derivation of the respective DNEL for long-term exposure. |
| DNEL long-term oral (repeated)         | 35.7 mg/kg<br>bw/day |  |
| DNEL acute dermal,short-term (local)   |                      | Assessment of hazard sufficiently covered by derivation of the respective DNEL for long-term exposure. |
| DNEL acute dermal,short-term(systemic) |                      | Assessment of hazard sufficiently covered by derivation of the respective DNEL for long-term exposure. |
| DNEL acute dermal,short-term(systemic) |                      | Assessment of hazard sufficiently covered by   |

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|   |  |
|---|--|
| <p>DNEL long-term dermal (local)</p> <p>DNEL long-term dermal (systemic) 357,000 mg/kg bw/day</p> <p>DNEL acute inhalative (systemic) covered by long-term</p> <p>DNEL long-term inhalative (local)</p> <p>DNEL long-term inhalative (systemic) 124 mg/m3</p> | <p>derivation of the respective DNEL for long-term exposure.</p> <p>Only workers will come in contact with the neat irritating substances.</p> <p>Assessment of hazard sufficiently covered by derivation of the respective DNEL for long-term exposure.</p> <p>Assessment of hazard sufficiently derivation of the respective DNEL for exposure.</p> <p>Assessment of hazard not assignable due to missing/insufficient data.</p> |
|---|--|

**PNEC**

| <b>PNEC Type</b>                    | <b>PNEC Value</b> | <b>Assessment factor</b> |
|-------------------------------------|-------------------|--------------------------|
| PNEC aquatic, fresh water           | 0.1 mg/L          | 10                       |
| PNEC aquatic, marine water          | 0.01 mg/L         | 100                      |
| PNEC aquatic, intermittent releases | 0.27 mg/L         | 100                      |
| PNEC sediment, fresh water          | 0.487 mg/kg       | N/A                      |
| PNEC sediment, marine water         | 0.048 mg/kg       | N/A                      |
| PNEC soil                           | 0.654 mg/kg       | 1000                     |
| PNEC sewage treatment plant (STP)   | 560 mg/L          | 1                        |
| PNEC air                            |                   |                          |
| PNEC secondary poisoning            | 111.11 mg/kg Food | 90                       |

**Risk management measures according to used control banding approach**

Exposure Scenario

**AISE**

Formulation: Granular Detergent/Maintenance Products, Liquid Detergents/Maintenance Products  
 End Use: Industrial use of Faacde/ Surface Cleaning Products, Laundry products and

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Vehicles cleaning Products, etc. Consumer use: Consumer use of air Freshner products, polishes, Washing and and cleasing Products, pest control Products, etc.

**General Measures**

Procedural & technological control using Best Available Technique (BAT)

**Specific Human Health Risk Management Measures**

Local Exhaust ventilation (LEV)

**Specific Environment Risk Management Measures**

Treatment of effluent in biological waste water treatment plant. Use of air emission abatement equipment such as incinerators and scrubbers are applicable as a best practice.

**Exposure controls**

Appropriate engineering controls

Ensure that there is ready access to eye was unit and safety shower.

**Personal protective equipment**

**Eye/Face protection**

Safety glasses with side shields Chemical goggles.

**Skin Protection**

Wear general protective gloves, e.g. light weight rubber gloves.

**Respiratory protection**

In dust atmospheres, use an approved dust respirator.

**Thermal hazard**

No information available.

**Environmental exposure controls**

Wear breathing protection, which needs a confirmation from the Korea Occupational Safety and Health Agency.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

|   |                              |
|---|------------------------------|
| Appearance                              | Viscous Liquid               |
| Odor                                    | No data available            |
| Color                                   | Yellowish transparent liquid |
| pH                                      | 11~12 (10%aq.sol'n)          |
| Melting point/freezing point            | >150°C                       |
| Initial boiling point and boiling range | >301°C at 1013 hPa           |
| Flash point                             | Not applicable               |
| Evaporation rate                        | No data available            |

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|   |                         |
|---|-------------------------|
| Flammability (solid,gas)                        | Non flammable           |
| Upper/lower flammability or explosive limits    | No data available       |
| Vapor pressure                                  | < 0.0077 Pa at 20°C     |
| Vapor density                                   | No data available       |
| Relative density                                | No data available       |
| Solubility(ies)                                 | >200 g/L at 20°C        |
| Partition coefficient n-octanol/water(Log Know) | <-0.07                  |
| Auto-ignition temperature                       | No data available       |
| Decomposition temperature                       | No data available       |
| Viscosity                                       | 8,000~12,000 cp at 25°C |
| Explosives properties                           | Non explosive           |
| Oxidizing properties                            | Non oxidizing           |
| Other information                               |                         |
| Surface tension                                 | 29.5 mN/m at 23°C       |

## 10. STABILITY AND REACTIVITY

### Reactivity

Hazardous polymerization will not occur.

### Chemical stability

Stable under normal conditions.

### Possibility of hazardous Reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

### Conditions to avoid

Avoid heat, flames, sparks and other sources of ignition.

### Incompatible materials

Metals, oxidizing materials

### Hazardous decomposition Products

Thermal breakdown of this product during fire or very high heat conditions may evolve the following decomposition products: Carbon monoxide, Carbon dioxide.

## 11. TOXICOLOGICAL INFORMATION

### Information on toxicological effects

#### Acute toxicity

##### Oral Acute toxicity

LD50 > 5000 mg/kg bw (Rat, equivalent or similar to OECD Guideline 401)

**Dermal Acute toxicity**

LD50 > 2000 mg/kg bw (Rabbit, equivalent or similar to OECD Guideline 402)

**Inhalation Acute toxicity (Vapor)**

No data available.

**Inhalation Acute toxicity (Dust/Mist)**

No data available.

**Skin corrosion/irritation**

Irritating (Rabbit, OECD Guideline 404)

**Serious eye damage/irritation**

Highly irritating (Rabbit, OECD Guideline 405)

**Irritation to respiratory tract**

No data available.

**Respiratory or skin sensitization**

Not sensitizing (Guinea pig, male, OECD Guideline 406)

**Germ cell mutagenicity**

in vitro : mouse lymphoma L5178Y cells (mammalian cell gene mutation assay, meta. Act. : with and without) : negative in vitro : S. typhimurium TA 1535, TA 1537, TA 98 and TA 100 (Ames test, OECD Guideline 471, met.act. : with and without) : negative in vitro : Chinese hamster lung fibroblasts (mammalian chromosome aberration test, OECD Guideline 473, met. Act. : with and without) : negative

**Carcinogenicity**

in vivo : mouse (CD-1) male (micronucleus assay, OECD guideline 474) : negative No data available.

**Reproductive toxicity**

Method : Rat male/female (one generation screening assay, oral: gavage, 0, 100, 300, 1000 mg/kg bw, exposure: 2 weeks before pairing and continuously thereafter, up to the day before sacrifice (study day 53, day 4 post partum). (daily), OECD Guideline 421. Results : NOAEL (P): 1000 mg/kg bw/day (nominal) (male/female)(No treatment-related effects).

Method : Rat, oral : gavage, 0, 100, 300, 1000 mg/kg bw, exposure : day 6-15 of gestation (daily), OECD Guideline 414 Results : NOAEL (maternal toxicity): 1000 mg/kg bw/day (nominal) (no treatment-related effects) NOAEL (developmental toxicity): 1000 mg/kg bw/day (nominal) (no treatment-related effects)

**STOT-single exposure**

No data available.

**STOT-repeated exposure**

Method: Rat (male/female), subchronic (oral: gavage), 0, 250, 500, 1000 mg/kg bw (nominal in water), Exposure: 90 days (daily), EU Method B. 26 Results: NOAEL: 100 mg/kg bw/day (nominal) (male/female) (Inflammation and ulcerations of mucous membrane of the forestomach due to bolus administration and irritating potential of the test substance.)

**Aspiration hazard**

No data available.

**12. ECOLOGICAL INFORMATION**

**Toxicity**

**Acute (short-term) toxicity Fish**

LC50(96h, Brachydanio rerio) = 2.95 mg/L

**Daphnia**

EC50(48h, Daphnia magna) = 7 mg/L

**Algae**

EC50(72h, Scenedesmus subspicatus) = 12.5 mg/L

**Chronic (long-term) toxicity**

**Fish**

NOEC(Brachydanio rerio) = 1.8 mg/L

**Daphnia**

NOEC(Daphnia magna) = 1 mg/L

**Persistence and degradability**

**Degradability**

Activated sludge, non-adapted, OECD Guideline 301E, readily biodegradable, 88% after 28day (DOC removal)

**Bioaccumulative potential:**

Log Know <-0.07

**Mobility in soil**

log Koc = 1.7 at 25°C

**Results of PBT and vPvB assessment**

D-Glucopyranose, oligomeric, decyl octyl glycosides is not a candidate for PBT or vPvB classification.

**Other adverse effects**

No additional information available.

**13. DISPOSAL CONSIDERATIONS**

**Disposal consideration**

Waste treatment methods Small amounts may be diluted with plenty of water and washed away. Waste incineration with the approval of the responsible local authority.

**14. TRANSPORT INFORMATION**

**UN number**

None as product is not classified

**UN proper shipping name**

None as product is not classified

**Transport hazard class(es)**

None as product is not classified

**Packing group**

None as product is not classified

**Environmental hazards**

None as product is not classified

**Special precautions for use**

None as product is not classified

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

None as product is not classified.

**15. REGULATORY INFORMATION**

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

**EU regulations**

**Authorizations and/or restrictions on use**

**Authorizations**

No applicable

**Restrictions on use**

Not applicable. Other EU regulations.

EU – Detergents Regulation (648/2004) – Consumer Labeling Requirements

EU – Detergents Regulation (648/2004) – Derogations and Banned or Restricted Detergent Surfactants

**US Regulations:** TSCA Listed

**National regulations**

Germany - Water Classification (VwVwS) - Annex 1: ID Number 1363, low hazard to waters.

Japan - Prevention of Marine Pollution and Disaster - Noxious Liquid Substances - Category Y Present (<=65%, listed under Alkylpolyglucoside solution)

**Chemical Safety Assessment**

No additional information available.

**16. OTHER INFORMATION**

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