

# SAFETY DATA SHEET DECYL GLUCOSIDE

# 1. PRODUCT INFORMATION AND COMPANY IDENTIFICATION

Product Name:	Decyl 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

## **Classification of the Substance:**

**Classification according to Regulation (EC) No 1272/2008 [CLP]** Skin corrosion/irritation: Category1A, H314 Serious eye damage/irritation: Category1, H318

### Label elements

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

Hazard Pictogram(s)



Signal word: Danger

### Hazard statement(s)

- H314 Causes severe skin burns and eye damage
- H318 Causes serious eye damage

### Precautionary statement(s)

### **Prevention** P260 Do not breathe dust/fume/gas/mist/vapours/spray.



P264 Wash hands thoroughly after handling. P280 Wear protective gloves/protective clothing/eye protection/face protection.

## Response

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

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

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.

P321 Specific treatment

P363 Wash contaminated clothing before reuse.

# Storage

P405 Store locked up.

## Disposal

P501 Dispose of contents/container in accordance with local/regional/national/international regulation

## Other hazards

Not available

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

# Substances

Not applicable

**Mixtures** 



INCI NAME	EC No.	CAS No.	REACH registration No.	% [weight]	Classification [1272/2008/EC]	Specific concentration limit
Water	231-791- 2	7732-18- 5	-	45 - 49	Not classified	-
Decyl Glucoside	500-220- 1 / -	68515- 73-1 / 110615- 47-9	01- 2119488530- 36-0003 / 01- 2119489418- 23-0002	51 - 55	Eye Dam. 1, H318 Skin Irrit. 2, H315	Eye Dam. 1: >12.0 - <= 30.0 % Skin Irrit. 2: >30.0 %

# 4. FIRST AID MEASURES

## Description of first aid measures

### General

No general information.

#### Inhalation

When exposed to large amounts of steam and mist, move to fresh air. Take specific treatment if needed.

### Skin contact

Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash contaminated clothing thoroughly before re-using.

Get medical attention immediately.

Wash thoroughly after handling.

### Eye contact

Do not rub your eyes. Immediately flush eyes with plenty of water for at least 15 minutes and call a doctor/physician. Get medical attention immediately. Remove contact lenses if worn.

### Ingestion

Please be advised by doctor whether induction of vomit is demanded or not. Rinse your mouth with water immediately.

# Most important symptoms and effects, both acute and delayed

Not available

### Indication of any immediate medical attention and special treatment needed



Notify medical personnel of contaminated situations and have them take appropriate protective measures.

# 5. FIRE FIGHTING MEASURES

# **Extinguishing media**

### Suitable extinguishing media

Dry chemical, carbon dioxide, regular foam extinguishing agent, spray Unsuitable extinguishing media Avoid use of water jet for extinguishing

## Special hazards arising from the substance or mixture

## Hazardous combustion products

Not available

## Advice for firefighters

Move containers from fire area, if you can do without the risk. Cool containers with water until well after fire is out. Do not access if the tank on fire. Use appropriate extinguishing measure suitable for surrounding fire. Keep containers cool with water spray. Use fire fighting procedures suitable for surrounding area. Vapor or gas is burned at distant ignition sources can be spread quickly.

# 6. ACCIDENTAL RELEASE MEASURES

# Personal Precautions, protective equipment and emergency procedures

### For non-emergency personnel

Protective equipment: Wear proper protective equipment. Emergency procedures: Not applicable If required, notify relevant authorities according to all applicable regulations.

### For emergency responders

Wear proper personal protective apparatus as indicated in Section 8 and avoid skin contact and inhalation.

Must work against the wind, let the upwind people to evacuate.

Remove all sources of ignition.

Handle the damaged containers or spilled material after wearing appropriate protective equipment

Do not direct water at spill or source of leak.

Avoid skin contact and inhalation.



# **Environmental precautions**

Prevent runoff and contact with waterways, drains or sewers. If large amounts have been spilled, inform the relevant authorities. Avoid dispersal of spilt material and runoff and contact with waterways, drains and sewers. If large spills, advise emergency services.

## Methods and material for containment and cleaning up

## For containment

Control personal contact by using protective equipment. Clear area of personnel and move up wind. Prevent, by any means available, spillage from entering drains or water course. Stop leak if safe to do so.

## For cleaning up

Large spill: Stay upwind and keep out of low areas. Dike for later disposal. Notification to central government, local government. When emissions at least of the standard amount Dispose of waste in accordance with local regulation. Appropriate container for disposal of spilled material collected. Small leak: sand or other non-combustible material, please let use absorption. Wipe off the solvent. Dike for later disposal.

# Other information

Slippery when spilt.

### **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 information on disposal.

# 7. HANDLING AND STORAGE

### Precautions for safe handling

Comply with all applicable laws and regulations for handling Get the manual before use. Refer to Engineering controls and personal protective equipment. Operators should wear antistatic footwear and clothing. Do not inhale the steam prolonged or repeated.

# Conditions for safe storage, including any incompatibilities

Do not use damaged containers.

Keep in the original container.

Please pay attention to incompatibilities materials and conditions to avoid.



No open fire.

Prevent static electricity and keep away from combustible materials or heat sources. Collected them in sealed containers.

## Specific end use(s)

See Section 1 for information on 1.2 Relevant identified uses.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## **Occupational exposure limits**

European Union (EU) Commission Directive 2006/15/EC (IOELVs) Not available

European Union (EU) Commission Directive 2006/15/EC (IOELVs) - Skin Not available

# **Recommended Monitoring Procedures**

Personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

### **DNEL/PNEC** - Values

# **Components with PNEC**

D-Glucose, decyl octyl ethers, oligomeric : freshwater: 0.1 mg/L D-Glucose, decyl octyl ethers, oligomeric : marine water: 0.01 mg/L D-Glucose, decyl octyl ethers, oligomeric : intermittent release: 0.27 mg/L D-Glucose, decyl octyl ethers, oligomeric : sediment (freshwater): 0.487 mg/kg D-Glucose, decyl octyl ethers, oligomeric : sediment (marine water): 0.048 mg/kg D-Glucose, decyl octyl ethers, oligomeric : soil: 0.654 mg/kg D-Glucose, decyl octyl ethers, oligomeric : STP: 560 mg/L D-Glucose, decyl octyl ethers, oligomeric : oral: 111.11 mg/kg [D-Glucopyranoside, oligomeric, alkyl (C=10-16) glycosides] : freshwater: 0.1 mg/L [D-Glucopyranoside, oligomeric, alkyl (C=10-16) glycosides] : marine water: 0.005 mg/L [D-Glucopyranoside, oligomeric, alkyl (C=10-16) glycosides] : intermittent release: 0.0295 mg/L [D-Glucopyranoside, oligomeric, alkyl (C=10-16) glycosides] : sediment (freshwater): 0.487 mg/kg [D-Glucopyranoside, oligomeric, alkyl (C=10-16) glycosides] : sediment (marine water): 0.048 mg/kg [D-Glucopyranoside, oligomeric, alkyl (C=10-16) glycosides] : soil: 0.654 mg/kg [D-Glucopyranoside, oligomeric, alkyl (C=10-16) glycosides] : STP: 5000 mg/L

### Components with DNEL

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D-Glucose, decyl octyl ethers, oligomeric : worker: Long-term - systemic effects, dermal: 595000 mg/kg

D-Glucose, decyl octyl ethers, oligomeric : worker: Long-term - systemic effects, inhalation: 420 mg/m<sup>3</sup>

D-Glucose, decyl octyl ethers, oligomeric : general population: Long-term - systemic effects, dermal: 357000 mg/kg

D-Glucose, decyl octyl ethers, oligomeric : general population: Long-term - systemic effects, inhalation: 124 mg/m<sup>3</sup>

D-Glucose, decyl octyl ethers, oligomeric : general population: Long-term - systemic effects, oral: 35.7 mg/kg

[D-Glucopyranoside, oligomeric, alkyl (C=10-16) glycosides] : worker: Long-term - systemic effects, dermal: 595000 mg/kg

[D-Glucopyranoside, oligomeric, alkyl (C=10-16) glycosides] : worker: Long-term - systemic effects, inhalation: 420 mg/m<sup>3</sup>

[D-Glucopyranoside, oligomeric, alkyl (C=10-16) glycosides] : general population: Long-term - systemic effects, dermal: 357000 mg/kg

[D-Glucopyranoside, oligomeric, alkyl (C=10-16) glycosides] : general population: Long-term - systemic effects, inhalation: 124 mg/m<sup>3</sup>

[D-Glucopyranoside, oligomeric, alkyl (C=10-16) glycosides] : general population: Long-term - systemic effects, oral: 35.7 mg/kg

# **Exposure controls**

# Appropriate engineering controls

Business owner is recommended to maintain below recommended exposure limits for the working place with general exhaust of gas/vapour/mist/fume.

# Individual protection measures, such as personal protective equipment

### Hand protection

Wear appropriate glove.

### Eye protection

Wear primary eye protection such as splash resistant safety goggles with a secondary protection face shield.

Provide an emergency eye wash station and quick drench shower in the immediate work area.

### **Respiratory Protection**

Under conditions of frequent use or heavy exposure, Respiratory protection may be needed. Respiratory protection is ranked in order from minimum to maximum.

Consider warning properties before use.

Any chemical cartridge respirator with organic vapor cartridge(s).

Any chemical cartridge respirator with a full facepiece and organic vaporcartridge(s).

Any air-purifying respirator with a full facepiece and an organic vapor canister.



For Unknown Concentration or Immediately Dangerous to Life or Health : Any supplied-air respirator with full facepiece and operated in a pressure-demand or other positive-pressure mode in combination with a separate escape supply. Any self-contained breathing apparatus with a full facepiece.

### Skin protection

Wear appropriate clothing.

#### **Environmental exposure controls**

Do not let product enter drains. For ecological information refer to section 12.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on Basic Physical and Chemical Properties

Appearance(State)	Liquid(Viscous liquid)		
Appearance(Color)	Yellowish		
Odor	Alcohol odor		
Odor threshold	Not available		
рН	11 - 12 (10% Sol'n)		
Melting point/Freezing point	2 °C		
Initial boiling point and boiling range	100 °C		
Flash point	Not available		
Evaporation rate	Not available		
Flammability(solid, gas)	Non flammable		
Upper/Lower Flammability or explosive limits	Not available		
Vapour pressure	< 0.01 Pa at 20°C		
Vapour density	Not available		
Relative density	1.103 at 20°C		
Solubility	> 200 g/L at 20°C		
Partition coefficient of n-octanol/water	< 1.77		
Autoignition temperature	Not available		
Decomposition temperature	Not available		
Viscosity	500 - 2,500 cps at 20°C		
Explosive properties	Not available		
Oxidising properties	Not available		

### Other information

Not available

### **10. STABILITY AND REACTIVITY**

#### Reactivity

Note: The information contained within this document was prepared by technical personnel and is believed to be true and accurate to the best of our knowledge. However, no warranty, express or implied, is provided regarding merchantability, fitness for a particular purpose, performance, safety, suitability, stability, or other aspects of the product. This information is not comprehensive and does not cover all potential conditions of use, handling, storage, disposal, or other factors that may involve legal, environmental, safety, or performance considerations. Natural Bulk Supplies accepts no liability for the use of or reliance upon this information. Our technical personnel are available to address inquiries, but the customer bears utilimate responsibility for the safe handling and use of the product. No suggestions for use are made that would encourage the infringement of existing patents or the violation of any Federal, State, local, or foreign laws.



Not available

# **Chemical Stability**

This material is stable under recommended storage and handling conditions.

## Possibility of hazardous reactions

Hazardous Polymerization will not occur.

## Conditions to avoid

Avoid contact with incompatible materials and condition. Avoid : Accumulation of electrostatic charges, Heating, Flames and hot surfaces

## Incompatible materials

Not available

Hazardous decomposition products May emit flammable vapour if involved in fire.

# **11. TOXICOLOGICAL INFORMATION**

# Acute toxicity

## Oral

Product (ATEmix) : >5000mg/kg [Water] : LD50 > 90000 mg/kg Rat (KOSHA) [D-Glucose, decyl octyl ethers, oligomeric] : LD50 >2000 mg/kg Rat (OECD Guideline 423) [Decyl Glucoside] : LD50 >2000 mg/kg Rat (OECD Guideline 423)

# Dermal

Product (ATEmix) : >5000mg/kg [D-Glucose, decyl octyl ethers, oligomeric] : LD50 >2000 mg/kg Rabbit (OECD Guideline 402) [Decyl Glucoside] : LD50 >2000 mg/kg Rat (OECD Guideline 402)

# Inhalation

Not available

# Skin corrosion/irritation

[D-Glucose, decyl octyl ethers, oligomeric] : Skin corrosion/irritation rabbit: not irritating (OECD Guideline 404)

[Decyl Glucoside] : Skin corrosion/irritation rabbit: irritanting (OECD Guideline 404)

# Serious eye damage/irritation

[D-Glucose, decyl octyl ethers, oligomeric] : Serious eye damage/irritation rabbit: highly irritating (OECD Guideline 405) [Decyl Glucoside] : Serious eye damage/irritation rabbit: highly irritating (OECD Guideline 405)



**Respiratory sensitization** 

Not available

# Skin sensitization

[D-Glucose, decyl octyl ethers, oligomeric] : Skin sensitisation guinea pig: not sensitising (OECD Guideline 406)

[Decyl Glucoside] : Skin sensitisation guinea pig: not sensitising (OECD Guideline 406)

# Germ cell mutagenicity

[D-Glucose, decyl octyl ethers, oligomeric] : Bacterial Reverse Mutation Assay(OECD Guideline 471): negative, In vitro Mammalian Cell Gene Mutation Test(OECD Guideline 476): negative (with and without metabolic activation), In vitro Mammalian Chromosome Aberration Test(OECD Guideline 473): negative

[Decyl Glucoside] : Bacterial Reverse Mutation Assay(OECD Guideline 471): negative, In vitro Mammalian Cell Gene Mutation Test(OECD Guideline 476): negative (with and without metabolic activation), In vitro Mammalian Chromosome Aberration Test(OECD Guideline 473): negative, In vivo Mammalian Erythrocyte Micronucleus Test(OECD Guideline 474): negative

# Carcinogenicity

IARC Not available

**OSHA** Not available

ACGIH Not available

**NTP** Not available

EU CLP

Not available

# **Reproductive toxicity**

[D-Glucose, decyl octyl ethers, oligomeric] : A one-generation screening assay revealed a NOAEL for reprotoxicity of 1000 mg/kg/day. (OECD

Guideline 421), A developmental toxicity study revealed a NOAEL of 1000 mg/kg/day. (OECD Guideline 414)

[Decyl Glucoside] : A one-generation screening assay revealed a NOAEL for reprotoxicity of 1000 mg/kg/day. (OECD Guideline 421), A developmental toxicity study revealed a NOAEL of 1000 mg/kg/day. (OECD Guideline 414)

# Specific target organ toxicity(single exposure):



Not available

# Specific target organ toxicity(repeated exposure):

[D-Glucose, decyl octyl ethers, oligomeric] : An oral subchronic repeated dose toxicity study revealed a NOAEL of 100 mg/kg/day. (EU Method B.26)

[Decyl Glucoside] : An oral subchronic repeated dose toxicity study revealed a NOAEL of 1000 mg/kg/day. (EU Method B.26)

## Aspiration hazard

Not available

## 12. ECOLOGICAL INFORMATION

## Toxicity

## Fish

[D-Glucose, decyl octyl ethers, oligomeric] : LC50 (96 h): 100.81 mg/L Brachydanio rerio (ISO 7346/1-3), NOEC(28 d): 1.8 mg a.i./L (based

on: mortality) Brachydanio rerio (OECD Guideline 204)

[Decyl Glucoside] : LC50 (96 h): 5.9 mg/L Brachydanio rerio (Annex of 92/69/EWG), NOEC(28 d): 1.8 mg a.i./L (based on: mortality) Brachydanio rerio (OECD Guideline 204)

# Invertebrate

[D-Glucose, decyl octyl ethers, oligomeric] : EC50 (48 h): >100 mg/L(based on: mobility) Daphnia magna (OECD Guideline 202), NOEC (21

d): 1 mg/L(based on: mobility) Daphnia magna (OECD Guideline 202 Part II) [Decyl Glucoside] : EC50 (48 h): 14 mg/L(based on: mobility) Daphnia magna (Annex of 92/69/EWG), NOEC (21 d): 2 mg/L(based on: mobility) Daphnia magna (OECD Guideline 202 Part II)

# Algae

[D-Glucose, decyl octyl ethers, oligomeric] : EC50 (72 h): 27.22 mg/L (based on: growth rate) Scenedesmus subspicatus (DIN 38412, part 9) [Decyl Glucoside] : EC50 (72 h): 10 mg/L (based on: biomass) Scenedesmus subspicatus (Annex of 92/69/EWG)

# Persistence and degradability

# Persistence

[Water] : log Kow = -1.38 [D-Glucose, decyl octyl ethers, oligomeric] : log Kow  $\leq$  1.77 (calculated) [Decyl Glucoside] : log Kow  $\leq$  -0.07 (calculated)

# Degradability



Not available

# **Bioaccumulative potential**

Bioaccumulation

Not available

# **Biodegradability**

[D-Glucose, decyl octyl ethers, oligomeric] : Readily biodegradable (according to the OECD criteria) [Decyl Glucoside] : Readily biodegradable (according to the OECD criteria)

# Mobility in soil

[D-Glucose, decyl octyl ethers, oligomeric] : log Koc: 1.7 at 25 °C [Decyl Glucoside] : log Koc: 1.7 at 25 °C

# Results of PBT and vPvB assessment

According to Annex XIV of Regulation (EC) No. 1907/2006 concerning the Regulation, Evaluation, Authorization and Restriction of Chemicals (REACH): The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

# Other adverse effects

Not available

# **13. DISPOSAL CONSIDERATIONS**

# Waste Treatment Methods

Since more than two kinds of designated waste is mixed, it is difficult to treat separately, then can be reduction or stabilization by incineration or

similar process.

If water separation is possible, pre-process with Water separation process.

Dispose by incineration.

The user of this product must dispose by oneself or entrust it to a waste disposer, a person who recycles other's waste or establishes and operates waste disposal facilities. Dispose of waste in accordance with all applicable laws and regulations.

# **14. TRANSPORT INFORMATION**

UN No.

UN No. (ADR/RID/ADN)

Not applicable

# UN No. (IMDG CODE/IATA DGR)



Not applicable

UN No. (ICAO) Not applicable

**UN proper shipping name** Not applicable

Transport hazard class(es)

ADR/RID/ADN Class Not applicable

ADR/RID/ADN Class Not available

ADR Label No. Not applicable

IMDG Class Not applicable

ICAO Class/Division Not applicable

Transport Labels Not applicable

**Packing group** 

ADR/RID/ADN Packing group Not applicable

**IMDG Packing group** Not applicable

ICAO Packing group Not available

Environmental hazards Not applicable

# Special precautions for user

Local transport follows in accordance with Dangerous goods Safety Management Law. Package and transport follow in accordance with Department of Transportation (DOT) and other regulatory agency requirements.



EmS FIRE SCHEDULE : Not available EmS SPILLAGE SCHEDULE : Not available Air transport(IATA): Not subject to IATA regulations.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable

## **15. REGULATORY INFORMATION**

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

**Europe regulatory** 

**REACH Restricted substance under REACH** Not applicable

**REACH Substances subject to authorization under REACH** Not applicable

**REACH SVHC** Not applicable

Europe PBT Not applicable

**European Union (EU) Transport of Dangerous Goods by Road - Dangerous Goods List** Not applicable

Chemical Safety Assessment Not conducted

## **16. OTHER INFORMATION**

### Indication of changes

The Safety Data Sheet has been reviewed and the data therein were revised and laid out according the requirements of the Commission Regulation (EC) No. 1907/2006

### Abbreviations and acronyms

1272/2008 CLP : Classification, Labelling and Packaging regulation. REACH : Registration, Evaluation and authorisation of chemical substances. DNEL : Derive no effects level PNEC : Predicted no effect concentration

### Key literature references and sources for data



This Safety Data Sheet was compiled with data and information from the following sources: RTECS, ECOSAR, HSDB, SIDS SIAP, ChemWATCH, CESAR, Chemical DB

## **Classification procedure**

The mixture classification has been derived based on the classification of the individual components in accordance with the rules set out in Regulation (EC) No 1272/2008 (CLP) as well as the translation tables in Annex VII to the same regulation.

### **Training advice**

Not applicable

# **Further information**

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