

# SAFETY DATA SHEET

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

**Trade name**

Brush Cleaner Winter

**Product no.**

-

**REACH registration number**

Not applicable

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Relevant identified uses of the substance or mixture**

Cleaning liquid

**Uses advised against**

-

The full text of any mentioned and identified use categories are given in section 16

### 1.3. Details of the supplier of the safety data sheet

**Company and address**

Blue & Green AB  
Stenorsvägen 52  
261 44 Landskrona  
Sweden  
Tfn: +46 418 399000  
Fax: +46 418 13199  
www.blueandgreen.se

**E-mail**

info@blueandgreen.se

**SDS date**

2020-10-15

**SDS Version**

1.0

### 1.4. Emergency telephone number

Contact The National Poisons Information Service (dial 111, 24 h service). See section 4 "First aid measures".

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Skin Irrit. 2; H315

Eye Dam. 1; H318

See full text of H-phrases in section 2.2.

### 2.2. Label elements

**Hazard pictogram(s)****Signal word**

Danger

**Hazard statement(s)**

Causes skin irritation. (H315)

Causes serious eye damage. (H318)

**Precautionary statements**

According to EC-Regulation 2015/830

<b>General</b>	If medical advice is needed, have product container or label at hand. (P101). Keep out of reach of children. (P102).
<b>Prevention</b>	Wash hands/exposed skin thoroughly after handling. (P264). Wear eye protection. (P280).
<b>Response</b>	Immediately call a POISON CENTER/doctor. (P310). IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338).
<b>Storage</b>	-
<b>Disposal</b>	-

**Identity of the substances primarily responsible for the major health hazards**

Benzenesulfonic, acid, C10-13-alkyl, derivs, sodium, salts; hexyl D-glucoside; 2-Ethylhexanol, ethoxylated

**Additional labelling**

Not applicable

**Unique formula identifier (UFI)**

DDWU-WJ29-E10X-PJA3

**2.3. Other hazards**

Not applicable

**Additional warnings**

Not applicable

**VOC (volatile organic compound)**

Not applicable

**SECTION 3: Composition/information on ingredients**

**3.1/3.2. Substances/Mixtures**

NAME: Benzenesulfonic, acid, C10-13-alkyl, derivs, sodium, salts  
 IDENTIFICATION NOS.: CAS-no: 68411-30-3 EC-no: 270-115-0 REACH-no: 01-2119489428-22  
 CONTENT: 10 - <15%  
 CLP CLASSIFICATION: Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, Aquatic Chronic 3  
 H302, H315, H318, H412

NAME: ethanol  
 IDENTIFICATION NOS.: CAS-no: 64-17-5 EC-no: 200-578-6 REACH-no: 01-2119457610-43 Index-no: 603-002-00-5  
 CONTENT: 5 - <10%  
 CLP CLASSIFICATION: Flam. Liq. 2, Eye Irrit. 2  
 H225, H319  
 NOTE: O

NAME: 2-Ethylhexanol, ethoxylated  
 IDENTIFICATION NOS.: CAS-no: 26468-86-0 EC-no: 607-943-2  
 CONTENT: 2.5 - <5%  
 CLP CLASSIFICATION: Eye Dam. 1  
 H318

NAME: hexyl D-glucoside  
 IDENTIFICATION NOS.: CAS-no: 54549-24-5 EC-no: 259-217-6 REACH-no: 01-2119492545-29  
 CONTENT: 2.5 - <5%  
 CLP CLASSIFICATION: Eye Dam. 1  
 H318

(\* ) O = Organic solvent See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

**Other information**

ATEmix(oral) > 2000  
 Eye Cat. 1 Sum = Sum(Ci/S(G)CLi) = 6.1336 - 9.2004  
 Skin Cat. 2 Sum = Sum(Ci/S(G)CLi) = 1.12 - 1.68  
 N chronic (CAT 4) Sum = Sum(Ci/(M(chronic)i\*25)\*0.1\*10^CAT4) = 0.448 - 0.672

Detergent:  
 5 - 15%: ALCOHOL, NON-IONIC SURFACTANTS

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

**General information**

According to EC-Regulation 2015/830

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. The doctor can contact The National Poisons Information Service: Dial 0344 892 0111 (24 h service). Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

**Inhalation**

Bring the person into fresh air and stay with him/her.

**Skin contact**

Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with soap and water.

**Eye contact**

Remove contact lenses. Flush eyes with plenty of water or salt water (20-30°C) for at least 15 minutes and continue until irritation stops. Make sure you flush under the upper and lower eyelids. Seek medical assistance immediately and continue flushing.

**Ingestion**

Provide plenty of water for the person to drink and stay with him/her. In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the victim lean forward with head down to avoid inhalation of- or choking on vomited material.

**Burns**

Not applicable

**4.2. Most important symptoms and effects, both acute and delayed**

This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

**4.3. Indication of any immediate medical attention and special treatment needed**

IF exposed or concerned: Get immediate medical advice/attention.

**Information to medics**

Bring this safety data sheet.

**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

Recommended: alcohol-resistant foam, carbonic acid, powder, water mist.

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

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous catabolic substances are produced. These are: Carbon oxides. Fire will result in dense black smoke. Exposure to combustion products may harm your health. Fire fighters should wear appropriate protection equipment. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

**5.3. Advice for firefighters**

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact The National Poisons Information Service (dial 111, 24 h service) in order to obtain further advice.

**SECTION 6: Accidental release measures**

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

Avoid direct contact with spilled substances. Avoid inhalation of vapours from spilled material.

**6.2. Environmental precautions**

No specific requirements.

**6.3. Methods and material for containment and cleaning up**

Use sand, sawdust, earth, vermiculite, diatomaceous earth to contain and collect non-combustible absorbent materials and place in container for disposal, according to local regulations.

**6.4. Reference to other sections**

See section on "Disposal considerations" in regard of handling of waste. See section on 'Exposure controls/personal protection' for protective measures.

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

Smoking, storage of tobacco, consumption and storage of food or liquids are not allowed in the workrooms. See section on 'Exposure controls/personal protection' for information on personal protection. Avoid direct contact with the product.

**7.2. Conditions for safe storage, including any incompatibilities**

According to EC-Regulation 2015/830

Always store in containers of the same material as the original container. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

**Storage temperature**

Room temperature 18 to 23°C

**7.3. Specific end use(s)**

This product should only be used for applications quoted in section 1.2

**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

**OEL**

ethanol

Long-term exposure limit (8-hour TWA reference period): 1000 ppm | 1920 mg/m<sup>3</sup>

Short-term exposure limit (15-minute reference period): - ppm | - mg/m<sup>3</sup>

**DNEL / PNEC**

DNEL (hexyl D-glucoside): 595000 mg/kg bw/day

Exposure: Dermal

Duration of Exposure: Long term – Systemic effects - Workers

DNEL (hexyl D-glucoside): 420 mg/m<sup>3</sup>

Exposure: Inhalation

Duration of Exposure: Long term – Systemic effects - Workers

DNEL (hexyl D-glucoside): 357000 mg/kg bw/day

Exposure: Dermal

Duration of Exposure: Long term – Systemic effects - General population

DNEL (hexyl D-glucoside): 124 mg/m<sup>3</sup>

Exposure: Inhalation

Duration of Exposure: Long term – Systemic effects - General population

DNEL (hexyl D-glucoside): 35.7 mg/kg bw/day

Exposure: Oral

Duration of Exposure: Long term – Systemic effects - General population

DNEL (ethanol): 950 mg/m<sup>3</sup>

Exposure: Inhalation

Duration of Exposure: Long term – Systemic effects - Workers

DNEL (ethanol): 343 mg/kg bw/d

Exposure: Dermal

Duration of Exposure: Long term – Systemic effects - Workers

DNEL (ethanol): 950 mg/m<sup>3</sup>

Exposure: Inhalation

Duration of Exposure: Short term – Local effects - General population

DNEL (ethanol): 87 mg/kg bw/d

Exposure: Oral

Duration of Exposure: Long term – Systemic effects - General population

DNEL (ethanol): 114 mg/m<sup>3</sup>

Exposure: Inhalation

Duration of Exposure: Long term – Systemic effects - General population

DNEL (ethanol): 206 mg/kg bw/d

Exposure: Dermal

Duration of Exposure: Long term – Systemic effects - General population

DNEL (ethanol): 1900 mg/m<sup>3</sup>

Exposure: Inhalation

Duration of Exposure: Short term – Local effects - Workers

PNEC (hexyl D-glucoside): 0.176 mg/l

Exposure: Freshwater

PNEC (hexyl D-glucoside): 0.018 mg/l

Exposure: Marine water

PNEC (hexyl D-glucoside): 100 mg/l

Exposure: Sewage Treatment Plant

According to EC-Regulation 2015/830

PNEC (hexyl D-glucoside): 0.722 mg/kg dw  
Exposure: Freshwater sediment

PNEC (hexyl D-glucoside): 0.072 mg/kg dw  
Exposure: Marine water sediment

PNEC (hexyl D-glucoside): 0.654 mg/kg dw  
Exposure: Soil

PNEC (ethanol): 0.96 mg/l  
Exposure: Freshwater

PNEC (ethanol): 0.79 mg/l  
Exposure: Marine water

PNEC (ethanol): 2.75 mg/l  
Exposure: Intermittent release

PNEC (ethanol): 3.6 mg/kg dw  
Exposure: Freshwater sediment

PNEC (ethanol): 0.63 mg/kg dw  
Exposure: Soil

PNEC (ethanol): 2.9 mg/kg dw  
Exposure: Marine water sediment

PNEC (ethanol): 580 mg/l  
Exposure: Sewage Treatment Plant

## 8.2. Exposure controls

Compliance with the accepted occupational exposure limits values should be controlled on a regular basis.

### General recommendations

Observe general occupational hygiene standards.

### Exposure scenarios

There is no appendix to this safety data sheet.

### Exposure limits

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

### Appropriate technical measures

Ensure emergency eyewash and -showers are clearly marked.

### Hygiene measures

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Always wash hands, forearms and face.

### Measures to avoid environmental exposure

Keep containment materials near the workplace. If possible, collect spillage during work.

### Individual protection measures, such as personal protective equipment



#### Generally

Use only CE marked protective equipment.

#### Respiratory Equipment

No specific requirements.

#### Skin protection

Dedicated work clothing should be worn.

#### Hand protection

Nitrile rubber

Breakthrough time: > 480 minutes (Class 6)

#### Eye protection

Wear safety glasses with side shields.

According to EC-Regulation 2015/830

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

Form	Liquid
Colour	Pale yellow
Odour	Mild
Odour threshold (ppm)	No data available.
pH	10
Viscosity (40°C)	No data available.
Density (g/cm <sup>3</sup> )	0.995

#### Phase changes

Melting point (°C)	No data available.
Boiling point (°C)	No data available.
Vapour pressure	No data available.
Decomposition temperature (°C)	No data available.
Evaporation rate (n-butylacetate = 100)	No data available.

#### Data on fire and explosion hazards

Flash point (°C)	61
Ignition (°C)	No data available.
Auto flammability (°C)	No data available.
Explosion limits (% v/v)	No data available.
Explosive properties	No data available.

#### Solubility

Solubility in water	Soluble
n-octanol/water coefficient	No data available.

### 9.2. Other information

Solubility in fat (g/L)	No data available.
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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No data available

### 10.2. Chemical stability

The product is stable under the conditions, noted in the section "Handling and storage".

### 10.3. Possibility of hazardous reactions

Nothing special

### 10.4. Conditions to avoid

Nothing special

### 10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

### 10.6. Hazardous decomposition products

The product is not degraded when used as specified in section 1.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity

Substance: hexyl D-glucoside  
 Species: Rat  
 Test: LD50  
 Route of exposure: Oral  
 Result: >2000 mg/kg

Substance: hexyl D-glucoside  
 Species: Rabbit  
 Test: LD50  
 Route of exposure: Dermal  
 Result: >2000 mg/kg

Substance: 2-Ethylhexanol, ethoxylated  
 Species: Rat  
 Test: LD50  
 Route of exposure: Oral  
 Result: >2000 mg/kg

According to EC-Regulation 2015/830

Substance: ethanol  
Species: Rat  
Test: LD50  
Route of exposure: Oral  
Result: 10470 mg/kg

Substance: ethanol  
Species: Rat  
Test: LC50  
Route of exposure: Inhalation  
Result: 51 mg/l 4h

Substance: ethanol  
Species: Rat  
Test: LD50  
Route of exposure: Dermal  
Result: >2000 mg/kg

Substance: Benzenesulfonic,acid,C10-13-alkyl,derivs,sodium,salts  
Species: Rat  
Test: LD50  
Route of exposure: Oral  
Result: 1020mg/kg

Substance: Benzenesulfonic,acid,C10-13-alkyl,derivs,sodium,salts  
Species: Rabbit  
Test: LD50  
Route of exposure: Dermal  
Result: >2000mg/kg

**Skin corrosion/irritation**

Causes skin irritation.

**Serious eye damage/irritation**

Causes serious eye damage.

**Respiratory or skin sensitisation**

No data available.

**Germ cell mutagenicity**

No data available.

**Carcinogenicity**

No data available.

**Reproductive toxicity**

No data available.

**STOT-single exposure**

No data available.

**STOT-repeated exposure**

No data available.

**Aspiration hazard**

No data available.

**Long term effects**

This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

**SECTION 12: Ecological information**

**12.1. Toxicity**

Substance: hexyl D-glucoside  
Species: Fish  
Test: LC50  
Duration: 96h  
Result: >100 mg/l

Substance: hexyl D-glucoside  
Species: Daphnia  
Test: EC50  
Duration: 48h  
Result: >100 mg/l

Substance: hexyl D-glucoside  
Species: Algae  
Test: EC50  
Duration: 72h  
Result: >100 mg/l

Substance: hexyl D-glucoside  
Species: Algae

According to EC-Regulation 2015/830

Test: NOEC  
Duration: 72h  
Result: >100 mg/l

Substance: hexyl D-glucoside  
Species: Daphnia  
Test: NOEC  
Duration: 21d  
Result: 1-10 mg/l

Substance: 2-Ethylhexanol, ethoxylated  
Species: Fish  
Test: LC50  
Duration: 96h  
Result: 10-100 mg/l

Substance: 2-Ethylhexanol, ethoxylated  
Species: Daphnia  
Test: EC50  
Duration: 48h  
Result: 1-10 mg/l

Substance: 2-Ethylhexanol, ethoxylated  
Species: Algae  
Test: EC50  
Duration: 72h  
Result: 1-10 mg/l

Substance: ethanol  
Species: Fish  
Test: LC50  
Duration: 96h  
Result: 13000 mg/l

Substance: ethanol  
Species: Daphnia  
Test: EC50  
Duration: 48h  
Result: 12340 mg/l

Substance: ethanol  
Species: Algae  
Test: EC50  
Duration: 72h  
Result: 275 mg/l

Substance: Benzenesulfonic,acid,C10-13-alkyl,derivs,sodium,salts  
Species: Daphnia  
Test: EC50  
Duration: 48h  
Result: 1,62mg/l

Substance: Benzenesulfonic,acid,C10-13-alkyl,derivs,sodium,salts  
Species: Fish  
Test: LC50  
Duration: 96h  
Result: 0,7mg/l

Substance: Benzenesulfonic,acid,C10-13-alkyl,derivs,sodium,salts  
Species: Algae  
Test: IC50  
Duration: 72h  
Result: 11mg/l

## 12.2. Persistence and degradability

Substance	Biodegradability	Test	Result
hexyl D-glucoside	Yes	Closed Bottle Test	>60%
2-Ethylhexanol, ethoxylated	Yes	CO2 Evolution Test	>60%
ethanol	Yes	CO2 Evolution Test	97%
Benzenesulfonic,acid,C10-13-al...	Yes	Closed Bottle Test	99%

## 12.3. Bioaccumulative potential

Substance	Potential bioaccumulation	LogPow	BCF
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According to EC-Regulation 2015/830

hexyl D-glucoside	No	No data available	No data available
2-Ethylhexanol, ethoxylated	No	No data available	No data available
ethanol	No	-0.3	0.66
Benzenesulfonic,acid,C10-13-al...	No	No data available	No data available

#### 12.4. Mobility in soil

ethanol: Log Koc= -0.15917, Calculated from LogPow ().

#### 12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

#### 12.6. Other adverse effects

This product contains substances, which may cause adverse long-term effects to the aquatic environment.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Product is covered by the regulations on hazardous waste.

##### Waste

EWC code

-

##### Specific labelling

Not applicable

##### Contaminated packing

Contaminated packaging must be disposed of similarly to the product.

### SECTION 14: Transport information

#### 14.1 – 14.4

Not dangerous goods according to ADR, IATA and IMDG.

##### ADR/RID

14.1. UN number	-
14.2. UN proper shipping name	-
14.3. Transport hazard class(es)	-
14.4. Packing group	-
Notes	-
Tunnel restriction code	-

##### IMDG

UN-no.	-
Proper Shipping Name	-
Class	-
PG*	-
EmS	-
MP**	-
Hazardous constituent	-

##### IATA/ICAO

UN-no.	-
Proper Shipping Name	-
Class	-
PG*	-

#### 14.5. Environmental hazards

-

#### 14.6. Special precautions for user

-

#### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

No data available

(\*) Packing group

(\*\*) Marine pollutant

### SECTION 15: Regulatory information

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

##### Restrictions for application

People under the age of 18 shall not be exposed to this product cf. Council Directive 94/33/EC of 22 June 1994 on the protection of young people at work.

##### Demands for specific education

-

##### Additional information

According to EC-Regulation 2015/830

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

**Seveso**

-

**Biocidal reg. no.**

Not applicable

**Sources**

Council Directive 94/33/EC of 22 June 1994 on the protection of young people at work.  
The Control of Substances Hazardous to Health Regulations 2002. SI 2002/2677. The Stationery Office, 2002.

Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (CLP).

Regulation (EC) 1907/2006 (REACH).

**15.2. Chemical safety assessment**

No

**SECTION 16: Other information**

**Full text of H-phrases as mentioned in section 3**

H225 - Highly flammable liquid and vapour.

H302 - Harmful if swallowed.

H315 - Causes skin irritation.

H318 - Causes serious eye damage.

H319 - Causes serious eye irritation.

H412 - Harmful to aquatic life with long lasting effects.

**The full text of identified uses as mentioned in section 1**

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**Additional label elements**

Not applicable

**Other**

In accordance with Regulation (EC) No. 1272/2008 (CLP) the evaluation of the classification of the mixture is based on:

The classification of the mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP)

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue triangle.

**The safety data sheet is validated by**

David Löwenstein

**Date of last essential change  
(First cipher in SDS version)**

-

**Date of last minor change  
(Last cipher in SDS version)**

-