

SAFETY DATA SHEET

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

1.1. Product identifier

Trade name

Graffiti Remover Hulk

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

Graffiti Removal

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

2020-11-18

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

Acute Tox. 4; H302 + H332
Eye Irrit. 2; H319
Aquatic Chronic 3; H412
See full text of H-phrases in section 2.2.

2.2. Label elements

Hazard pictogram(s)



Signal word

Warning

Hazard statement(s)

Harmful if swallowed or if inhaled. (H302 + H332)
Causes serious eye irritation. (H319)
Harmful to aquatic life with long lasting effects. (H412)

According to EC-Regulation 2015/830

Precautionary statements

General	If medical advice is needed, have product container or label at hand. (P101). Keep out of reach of children. (P102).
Prevention	Use only outdoors or in a well-ventilated area. (P271). Avoid release to the environment. (P273). Wear eye protection/gloves. (P280).
Response	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338).
Storage	-
Disposal	Dispose of contents/container to an approved waste disposal plant. (P501).

Identity of the substances primarily responsible for the major health hazards

benzyl alcohol; hydrogen peroxide

Additional labelling

Not applicable

Unique formula identifier (UFI)

PQ7R-YFDU-E201-J9CX

2.3. Other hazards

Not applicable

Additional warnings

Tactile warning.

VOC (volatile organic compound)

Not applicable

SECTION 3: Composition/information on ingredients

3.1/3.2. Substances/Mixtures

NAME: benzyl alcohol
 IDENTIFICATION NOS.: CAS-no: 100-51-6 EC-no: 202-859-9 REACH-no: 01-2119492630-38 Index-no: 603-057-00-5
 CONTENT: 40-60%
 CLP CLASSIFICATION: Acute Tox. 4, Eye Irrit. 2
 H302, H319, H332

NAME: Hydrocarbons, C9, aromatics
 IDENTIFICATION NOS.: CAS-no: 128601-23-0 EC-no: 918-668-5 REACH-no: 01-2119455851-35
 CONTENT: 5 - <10%
 CLP CLASSIFICATION: Flam. Liq. 3, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2
 H226, H304, H335, H336, H411, EUH066
 NOTE: O

NAME: hydrogen peroxide
 IDENTIFICATION NOS.: CAS-no: 7722-84-1 EC-no: 231-765-0 REACH-no: 01-2119485845-22 Index-no: 008-003-00-9
 CONTENT: 5 - <10%
 CLP CLASSIFICATION: Ox. X 1/2, Acute Tox. 4, STOT SE 3, Skin Corr. 1A, Eye Dam. 1, Aquatic Chronic 3
 H271, H302, H314, H318, H332, H335, H412

(*) 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(inhale, vapour) = 16 - <= 20
 ATEmix(oral) = 727.272 - 1090.908
 Eye Cat. 2 Sum = Sum(Ci/S(G)CLi) = 4.8 - 7.2
 Skin Cat. 2 Sum = Sum(Ci/S(G)CLi) = 0.1144 - 0.1716
 N chronic (CAT 3) Sum = Sum(Ci/(M(chronic)*25)*0.1*10^CATi) = 1.76 - 2.64

Detergent:
 5 - 15%: AROMATIC HYDROCARBONS

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

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).

According to EC-Regulation 2015/830

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 injured person into fresh air. Make sure the injured person is continuously monitored. Prevent shock by keeping the injured person warm and calm. If breathing ceases, give mouth-to-mouth resuscitation. If unconscious, roll the injured person into recovery position. Call an ambulance.

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 immediately with plenty of water or isotonic water (20-30°C) for at least 5 minutes and continue until irritation stops. Make sure to flush under the upper and lower eyelids. If irritation continues, contact a doctor. Continue flushing during transport.

Ingestion

In the case of ingestion, contact a doctor immediately and bring the safety data sheet or label. If the person is conscious, give them water. DO NOT try to induce vomiting, unless this is recommended by a doctor. Hold head facing down to prevent vomit returning to the mouth and throat. Prevent shock by keeping the injured person warm and calm. Initiate immediate resuscitation if breathing stops. If unconscious, roll the injured person into recovery position. Call an ambulance.

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 medic

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 inhalation of vapours from spilled material.

6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc. In the event of leakage to the surroundings, contact local environmental authorities. It is recommended to install waste collection trays to prevent emissions to the waste water system and surrounding environment.

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

According to EC-Regulation 2015/830

Smoking, storage of tobacco, consumption and storage of food or liquids are not allowed in the workrooms. It is recommended to install waste collection trays to prevent emissions to the waste water system and surrounding environment. See section on 'Exposure controls/personal protection' for information on personal protection.

7.2. Conditions for safe storage, including any incompatibilities

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

No data available.

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

hydrogen peroxide

Long-term exposure limit (8-hour TWA reference period): 1 ppm | 1,4 mg/m³

Short-term exposure limit (15-minute reference period): 2 ppm | 2,8 mg/m³

DNEL / PNEC

DNEL (benzyl alcohol): 22 mg/m³

Exposure: Inhalation

Duration of Exposure: Long term – Systemic effects - Workers

Remarks: Registration dossier ECHA

DNEL (benzyl alcohol): 110 mg/m³

Exposure: Inhalation

Duration of Exposure: Short term – Systemic effects - Workers

Remarks: Registration dossier ECHA

DNEL (benzyl alcohol): 8 mg/kg bw/d

Exposure: Dermal

Duration of Exposure: Long term – Systemic effects - Workers

Remarks: Registration dossier ECHA

DNEL (benzyl alcohol): 40 mg/kg bw/d

Exposure: Dermal

Duration of Exposure: Short term – Systemic effects - Workers

Remarks: Registration dossier ECHA

DNEL (benzyl alcohol): 5.4 mg/m³

Exposure: Inhalation

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

Remarks: Registration dossier ECHA

DNEL (benzyl alcohol): 27 mg/m³

Exposure: Inhalation

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

Remarks: Registration dossier ECHA

DNEL (benzyl alcohol): 4 mg/kg bw/d

Exposure: Dermal

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

Remarks: Registration dossier ECHA

DNEL (benzyl alcohol): 20 mg/kg bw/d

Exposure: Dermal

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

Remarks: Registration dossier ECHA

DNEL (benzyl alcohol): 4 mg/kg bw/d

Exposure: Oral

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

Remarks: Registration dossier ECHA

DNEL (benzyl alcohol): 20 mg/kg bw/d

Exposure: Oral

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

Remarks: Registration dossier ECHA

DNEL (Hydrocarbons, C9, aromatics): 150 mg/m³

According to EC-Regulation 2015/830

Exposure: Inhalation
Duration of Exposure: Long term – Systemic effects - Workers

DNEL (Hydrocarbons, C9, aromatics): 25 mg/kg/d
Exposure: Dermal
Duration of Exposure: Long term – Systemic effects - Workers

DNEL (Hydrocarbons, C9, aromatics): 11 mg/kg/d
Exposure: Dermal
Duration of Exposure: Long term – Systemic effects - General population

DNEL (Hydrocarbons, C9, aromatics): 32 mg/m³
Exposure: Inhalation
Duration of Exposure: Long term – Systemic effects - General population

DNEL (Hydrocarbons, C9, aromatics): 11 mg/kg/d
Exposure: Oral
Duration of Exposure: Long term – Systemic effects - General population

PNEC (benzyl alcohol): 1 mg/l
Exposure: Freshwater
Remarks: Registration dossier ECHA

PNEC (benzyl alcohol): 0.1 mg/l
Exposure: Marine water
Remarks: Registration dossier ECHA

PNEC (benzyl alcohol): 2.3 mg/l
Exposure: Intermittent release
Remarks: Registration dossier ECHA

PNEC (benzyl alcohol): 0.456 mg/kg dw
Exposure: Soil
Remarks: Registration dossier ECHA

PNEC (benzyl alcohol): 0.527 mg/kg dw
Exposure: Marine water sediment
Remarks: Registration dossier ECHA

PNEC (benzyl alcohol): 5.27 mg/kg dw
Exposure: Freshwater sediment
Remarks: Registration dossier ECHA

PNEC (benzyl alcohol): 39 mg/l
Exposure: Sewage Treatment Plant
Remarks: Registration dossier ECHA

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

No specific requirements.

Individual protection measures, such as personal protective equipment

According to EC-Regulation 2015/830



Generally

Use only CE marked protective equipment.

Respiratory Equipment

If ventilation at the work place is insufficient, use a half- or full mask with an appropriate filter or an air-supplied breathing apparatus depending on the specific work situation and how long you will be using the product.

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.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form	Liquid
Colour	Haze blue
Odour	Faint
Odour threshold (ppm)	No data available.
pH	3
Viscosity (40°C)	No data available.
Density (g/cm ³)	1.01

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)	No data available.
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.
-------------------------	--------------------

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.

According to EC-Regulation 2015/830

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: hydrogen peroxide
Species: Rabbit
Test: LD50
Route of exposure: Dermal
Result: >2000mg/kg

Substance: hydrogen peroxide
Species: Rat
Test: LD50
Route of exposure: Oral
Result: 1193-1270mg/kg

Substance: hydrogen peroxide
Species: Rat
Test: LC50
Route of exposure: Inhalation
Result: >0,17mg/l

Substance: Hydrocarbons, C9, aromatics
Species: Rabbit
Test: LD50
Route of exposure: Dermal
Result: 3160 mg/kg

Substance: Hydrocarbons, C9, aromatics
Species: Rat
Test: LD50
Route of exposure: Oral
Result: 3492 mg/kg

Substance: Hydrocarbons, C9, aromatics
Species: Rat
Test: LC50
Route of exposure: Inhalation
Result: >6193 mg/m3

Substance: benzyl alcohol
Species: Rabbit
Test: LD50
Route of exposure: Dermal
Result: >2000 mg/kg

Substance: benzyl alcohol
Species: Rat
Test: LD50
Route of exposure: Oral
Result: 1620 mg/kg

Substance: benzyl alcohol
Species: Rat
Test: LC50
Route of exposure: Inhalation
Result: >4178 mg/l/4h

Skin corrosion/irritation

No data available.

Serious eye damage/irritation

Causes serious eye irritation.

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

According to EC-Regulation 2015/830

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: hydrogen peroxide

Species: Daphnia

Test: EC50

Duration: 48h

Result: 2,4mg/l

Substance: hydrogen peroxide

Species: Fish

Test: LC50

Duration: 96h

Result: 16,4mg/l

Substance: hydrogen peroxide

Species: Algae

Test: EC50

Duration: 72h

Result: 1,38mg/l

Substance: Hydrocarbons, C9, aromatics

Species: Daphnia

Test: NOEC

Duration: 21d

Result: 2.14 mg/l

Substance: Hydrocarbons, C9, aromatics

Species: Daphnia

Test: EC50

Duration: 48h

Result: 3.2 mg/l

Substance: Hydrocarbons, C9, aromatics

Species: Fish

Test: NOEC

Duration: 28d

Result: 1.23 mg/l

Substance: Hydrocarbons, C9, aromatics

Species: Fish

Test: LC50

Duration: 96h

Result: 9.2 mg/l

Substance: Hydrocarbons, C9, aromatics

Species: Algae

Test: NOEC

Duration: 72h

Result: 1 mg/l

Substance: Hydrocarbons, C9, aromatics

Species: Algae

Test: EC50

Duration: 72h

Result: 2.9 mg/l

Substance: benzyl alcohol

Species: Daphnia

Test: EC50

Duration: 48h

Result: 230 mg/l

Substance: benzyl alcohol

Species: Fish

According to EC-Regulation 2015/830

Test: LC50
Duration: 96h
Result: 460 mg/l

Substance: benzyl alcohol
Species: Algae
Test: IC100
Duration: 72h
Result: 770 mg/l

12.2. Persistence and degradability

Substance	Biodegradability	Test	Result
hydrogen peroxide	Yes	No data available	No data available
Hydrocarbons, C9, aromatics	Yes	Manometric Respirometry	78%
benzyl alcohol	Yes	Test Closed Bottle Test	>90%

12.3. Bioaccumulative potential

Substance	Potential bioaccumulation	LogPow	BCF
hydrogen peroxide	No	-1.57	No data available
Hydrocarbons, C9, aromatics	No	4.5	No data available
benzyl alcohol	No	1.1	No data available

12.4. Mobility in soil

hydrogen peroxide: Log Koc= -1.164883, Calculated from LogPow ().
Hydrocarbons, C9, aromatics: Log Koc= 3.64195, Calculated from LogPow (Moderate mobility potential.).
benzyl alcohol: Log Koc= 0.94949, Calculated from LogPow (High mobility potential.).

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 that are toxic to the environment. May result in adverse effects to aquatic organisms.
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

Not applicable

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

- H226 - Flammable liquid and vapour.
- H271 - May cause fire or explosion; strong oxidiser.
- H302 - Harmful if swallowed.
- H304 - May be fatal if swallowed and enters airways.
- H314 - Causes severe skin burns and eye damage.
- H318 - Causes serious eye damage.
- H319 - Causes serious eye irritation.
- H332 - Harmful if inhaled.
- H335 - May cause respiratory irritation.
- H336 - May cause drowsiness or dizziness.
- H411 - Toxic to aquatic life with long lasting effects.
- H412 - Harmful to aquatic life with long lasting effects.
- EUH066 - Repeated exposure may cause skin dryness or cracking.

The full text of identified uses as mentioned in section 1

-

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:

According to EC-Regulation 2015/830

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)

The classification of the mixture in regard of environmental 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)

-