

SAFETY DATA SHEET

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

1.1. Product identifier

Trade name

Graffiti Remover 33

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

2020-09-18

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
Asp. Tox. 1; H304
Skin Irrit. 2; H315
Eye Dam. 1; H318
STOT SE 3; H336
Aquatic Chronic 3; H412
See full text of H-phrases in section 2.2.

2.2. Label elements

Hazard pictogram(s)



Signal word

Danger

Hazard statement(s)

According to EC-Regulation 2015/830

Harmful if swallowed. (H302)
 May be fatal if swallowed and enters airways. (H304)
 Causes skin irritation. (H315)
 Causes serious eye damage. (H318)
 May cause drowsiness or dizziness. (H336)
 Harmful to aquatic life with long lasting effects. (H412)

Precautionary statements

General If medical advice is needed, have product container or label at hand. (P101).
 Keep out of reach of children. (P102).
Prevention Wear eye protection. (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 Store locked up. (P405).
Disposal Dispose of contents/container to an approved waste disposal plant. (P501).

Identity of the substances primarily responsible for the major health hazards

Hydrocarbons, C9, aromatics; 1-butylpyrrolidin-2-one; α³-butyrolactone

Additional labelling

Not applicable

Unique formula identifier (UFI)

VQPD-PWHJ-T00P-VWYW

2.3. Other hazards

This product contains substances that can cause chemical pneumonia if inhaled. The symptoms of chemical pneumonia may appear after several hours.

Additional warnings

Tactile warning. If this product is sold in retail, it must be delivered with child-resistant fastening.

VOC (volatile organic compound)

Not applicable

SECTION 3: Composition/information on ingredients

3.1/3.2. Substances/Mixtures

NAME: dimethyl glutarate
 IDENTIFICATION NOS.: CAS-no: 1119-40-0 EC-no: 214-277-2 REACH-no: 01-2119900156-49
 CONTENT: 25-40%
 CLP CLASSIFICATION: NA

NAME: Hydrocarbons, C9, aromatics
 IDENTIFICATION NOS.: CAS-no: 128601-23-0 EC-no: 918-668-5 REACH-no: 01-2119455851-35
 CONTENT: 15 - <25%
 CLP CLASSIFICATION: Flam. Liq. 3, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2
 H226, H304, H335, H336, H411, EUH066
 NOTE: O

NAME: 1-butylpyrrolidin-2-one
 IDENTIFICATION NOS.: CAS-no: 3470-98-2 EC-no: 222-437-8 REACH-no: 01-2120062728-48
 CONTENT: 10 - <15%
 CLP CLASSIFICATION: Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2
 H302, H315, H319

NAME: α³-butyrolactone
 IDENTIFICATION NOS.: CAS-no: 96-48-0 EC-no: 202-509-5 REACH-no: 01-2119471839-21
 CONTENT: 10 - <15%
 CLP CLASSIFICATION: Acute Tox. 4, STOT SE 3, Eye Dam. 1
 H302, H318, H336
 NOTE: O

NAME: dimethyl succinate
 IDENTIFICATION NOS.: CAS-no: 106-65-0 EC-no: 203-419-9 REACH-no: 01-2119486681-29
 CONTENT: 10 - <15%
 CLP CLASSIFICATION: NA

NAME: dimethyl adipate
 IDENTIFICATION NOS.: CAS-no: 627-93-0 EC-no: 211-020-6 REACH-no: 01-2119911093-50
 CONTENT: 2.5 - <5%

According to EC-Regulation 2015/830

CLP CLASSIFICATION: NA

(*) 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) = 1314.864 - 1972.296
 Eye Cat. 1 Sum = Sum(Ci/S(G)CLi) = 3.9232 - 5.8848
 Skin Cat. 2 Sum = Sum(Ci/S(G)CLi) = 1.1888 - 1.7832
 N chronic (CAT 3) Sum = Sum(Ci/(M(chronic)ⁱ*25)*0.1*10[^]CATi) = 6.336 - 9.504

Detergent:
 15 - 30%: AROMATIC HYDROCARBONS
 < 5%: PHOSPHATES

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). 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

Do not induce vomiting! If vomiting occurs, keep head facing down to prevent vomit entering the lungs. Call a doctor or ambulance. Symptoms of chemical pneumonia can appear after several hours. People who have swallowed the product should be kept under medical attention for a minimum of 48 hours.

Burns

Not applicable

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

This product contains substances that can cause chemical pneumonia if inhaled. The symptoms of chemical pneumonia may appear after several hours.

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: Nitrogen oxides. 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

According to EC-Regulation 2015/830

6.1. Personal precautions, protective equipment and emergency procedures

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

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

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. Avoid direct contact with the product.

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

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

No substances are listed in The Control of Substances Hazardous to Health Regulations with an occupational exposure limit.

DNEL / PNEC

DNEL (dimethyl succinate): 1,1mg/m³

Exposure: Inhalation

Duration of Exposure: Short term – Local effects - Workers

DNEL (dimethyl succinate): 6.8mg/kg/d

Exposure: Dermal

Duration of Exposure: Long term – Systemic effects - Workers

DNEL (dimethyl succinate): 33,5mg/m³

Exposure: Inhalation

Duration of Exposure: Long term – Systemic effects - Workers

DNEL (dimethyl succinate): 1,1mg/m³

Exposure: Inhalation

Duration of Exposure: Long term – Local effects - Workers

DNEL (dimethyl succinate): 12,6mg/kg

Exposure: Dermal

Duration of Exposure: Short term – Systemic effects - Workers

DNEL (dimethyl succinate): 67mg/m³

Exposure: Inhalation

Duration of Exposure: Short term – Systemic effects - Workers

DNEL (dimethyl glutarate): 8,3mg/m³

Exposure: Inhalation

Duration of Exposure: Long term – Local effects - Workers

DNEL (dimethyl glutarate): 49,8mg/m³

Exposure: Inhalation

Duration of Exposure: Long term – Local effects - Workers

DNEL (dimethyl glutarate): 5mg/m³

According to EC-Regulation 2015/830

Exposure: Inhalation
Duration of Exposure: Long term – Local effects - General population

DNEL (dimethyl glutarate): 50mg/m³
Exposure: Inhalation
Duration of Exposure: Short term – Local effects - General population

DNEL (α^3 -butyrolactone): 958 mg/m³
Exposure: Inhalation
Duration of Exposure: Short term – Systemic effects - Workers

DNEL (α^3 -butyrolactone): 19 mg/kg bw/d
Exposure: Dermal
Duration of Exposure: Long term – Systemic effects - Workers

DNEL (α^3 -butyrolactone): 130 mg/m³
Exposure: Inhalation
Duration of Exposure: Long term – Systemic effects - Workers

DNEL (α^3 -butyrolactone): 28 mg/m³
Exposure: Inhalation
Duration of Exposure: Long term – Systemic effects - General population

DNEL (α^3 -butyrolactone): 340 mg/m³
Exposure: Inhalation
Duration of Exposure: Short term – Systemic effects - General population

DNEL (α^3 -butyrolactone): 8 mg/kg bw/d
Exposure: Dermal
Duration of Exposure: Long term – Systemic effects - General population

DNEL (α^3 -butyrolactone): 8 mg/kg bw/d
Exposure: Oral
Duration of Exposure: Long term – Systemic effects - General population

DNEL (1-butylpyrrolidin-2-one): 4mg/kg
Exposure: Oral
Duration of Exposure: Short term – Systemic effects - General population

DNEL (1-butylpyrrolidin-2-one): 4mg/kg
Exposure: Oral
Duration of Exposure: Long term – Systemic effects - General population

DNEL (1-butylpyrrolidin-2-one): 5mg/kg
Exposure: Dermal
Duration of Exposure: Long term – Systemic effects - General population

DNEL (1-butylpyrrolidin-2-one): 4.29mg/m³
Exposure: Inhalation
Duration of Exposure: Long term – Systemic effects - General population

DNEL (1-butylpyrrolidin-2-one): 10mg/kg
Exposure: Dermal
Duration of Exposure: Long term – Systemic effects - Workers

DNEL (1-butylpyrrolidin-2-one): 24.1mg/m³
Exposure: Inhalation
Duration of Exposure: Long term – Systemic effects - Workers

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

According to EC-Regulation 2015/830

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 (dimethyl succinate): 0,05mg/l

Exposure: Freshwater

PNEC (dimethyl succinate): 0,005mg/l

Exposure: Marine water

PNEC (dimethyl succinate): 0,5mg/l

Exposure: Intermittent release

PNEC (dimethyl succinate): 10mg/l

Exposure: Sewage Treatment Plant

PNEC (dimethyl succinate): 0,137mg/kg

Exposure: Freshwater sediment

PNEC (dimethyl succinate): 0,014mg/kg

Exposure: Marine water sediment

PNEC (dimethyl adipate): 0,018mg/l

Exposure: Freshwater

PNEC (dimethyl adipate): 0,0018mg/l

Exposure: Marine water

PNEC (dimethyl adipate): 0,18mg/l

Exposure: Intermittent release

PNEC (dimethyl adipate): 0,16mg/kg

Exposure: Freshwater sediment

PNEC (dimethyl adipate): 0,016

Exposure: Marine water sediment

PNEC (dimethyl adipate): 0,09mg/kg

Exposure: Soil

PNEC (dimethyl adipate): 10mg/l

Exposure: Sewage Treatment Plant

PNEC (dimethyl glutarate): 0,018mg/l

Exposure: Freshwater

PNEC (dimethyl glutarate): 0,0018/mg/l

Exposure: Marine water

PNEC (dimethyl glutarate): 0,018/mg/l

Exposure: Intermittent release

PNEC (dimethyl glutarate): 0,16mg/kg

Exposure: Freshwater sediment

PNEC (dimethyl glutarate): 0,016mg/kg

Exposure: Marine water sediment

PNEC (dimethyl glutarate): 0,09mg/kg

Exposure: Soil

PNEC (dimethyl glutarate): 10mg/l

Exposure: Sewage Treatment Plant

PNEC (α^3 -butyrolactone): 0.056 mg/l

Exposure: Freshwater

PNEC (α^3 -butyrolactone): 452 mg/l

Exposure: Sewage Treatment Plant

PNEC (α^3 -butyrolactone): 0.02 mg/kg

According to EC-Regulation 2015/830

Exposure: Marine water sediment

PNEC (α^3 -butyrolactone): 0.24 mg/kg

Exposure: Freshwater sediment

PNEC (α^3 -butyrolactone): 0.56 mg/l

Exposure: Intermittent release

PNEC (α^3 -butyrolactone): 0.014683 mg/kg

Exposure: Soil

PNEC (α^3 -butyrolactone): 0.0056 mg/l

Exposure: Marine water

PNEC (1-butylpyrrolidin-2-one): 3.57mg/kg

Exposure: Soil

PNEC (1-butylpyrrolidin-2-one): 2.96mg/kg

Exposure: Marine water sediment

PNEC (1-butylpyrrolidin-2-one): 29.6mg/kg

Exposure: Freshwater sediment

PNEC (1-butylpyrrolidin-2-one): 30,62 mg/L

Exposure: Sewage Treatment Plant

PNEC (1-butylpyrrolidin-2-one): 0,4mg/L

Exposure: Marine water

PNEC (1-butylpyrrolidin-2-one): 4mg/L

Exposure: Freshwater

8.2. Exposure controls

Control is unnecessary if the product is used as intended.

General recommendations

Observe general occupational hygiene standards.

Exposure scenarios

There is no appendix to this safety data sheet.

Exposure limits

Occupational exposure limits have not been defined for the substances in this product.

Appropriate technical measures

Apply standard precautions during use of the product. Avoid inhalation of gas or dust.

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

NA

Skin protection

Dedicated work clothing should be worn. Wear a protective suit in the event of prolonged periods of work with the product.

Hand protection

Butyl rubber

Breakthrough time: > 480 minutes (Class 6)

Eye protection

Wear safety glasses with side shields.

According to EC-Regulation 2015/830

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form	Liquid
Colour	Yellowish
Odour	Characteristic
Odour threshold (ppm)	No data available.
pH	No data available.
Viscosity (40°C)	No data available.
Density (g/cm ³)	1.05

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)	70
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	Insoluble
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: dimethyl adipate
Species: Rat
Test: LD50
Route of exposure: Oral
Result: 5000mg/kg

Substance: dimethyl adipate
Species: Rat
Test: LD50
Route of exposure: Dermal
Result: 2000mg/kg

Substance: dimethyl adipate
Species: Rat
Test: LC50
Route of exposure: Inhalation
Result: 11000mg/l

According to EC-Regulation 2015/830

Substance: dimethyl succinate
Species: Rat
Test: LD50
Route of exposure: Oral
Result: 5000mg/kg

Substance: dimethyl succinate
Species: Rat
Test: LD50
Route of exposure: Dermal
Result: 2000mg/kg

Substance: dimethyl succinate
Species: Rat
Test: LC50
Route of exposure: Inhalation
Result: 11000mg/l

Substance: α^3 -butyrolactone
Species: Rat
Test: LD50
Route of exposure: Oral
Result: 1582 mg/kg

Substance: α^3 -butyrolactone
Species: Rat
Test: LC50
Route of exposure: Inhalation
Result: >5.1 mg/l 4h

Substance: α^3 -butyrolactone
Species: Guinea pig
Test: LD50
Route of exposure: Dermal
Result: >5000 mg/kg

Substance: 1-butylpyrrolidin-2-one
Species: Rat
Test: LD50
Route of exposure: Oral
Result: 300-2000mg/kg

Substance: 1-butylpyrrolidin-2-one
Species: Rabbit
Test: LD50
Route of exposure: Dermal
Result: >2000mg/kg

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

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

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

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/irritation

Causes serious eye damage.

Respiratory or skin sensitisation

No data available.

Germ cell mutagenicity

According to EC-Regulation 2015/830

No data available.

Carcinogenicity

No data available.

Reproductive toxicity

No data available.

STOT-single exposure

May cause drowsiness or dizziness.

STOT-repeated exposure

No data available.

Aspiration hazard

May be fatal if swallowed and enters airways.

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: dimethyl adipate

Species: Fish

Test: LC50

Duration: 96h

Result: 18-24mg/l

Substance: dimethyl adipate

Species: Daphnia

Test: EC50

Duration: 48h

Result: 112-150mg/l

Substance: dimethyl adipate

Species: Algae

Test: EC50

Duration: 72h

Result: >85mg/l

Substance: dimethyl succinate

Species: Fish

Test: LC50

Duration: 96h

Result: 12-24mg/l

Substance: dimethyl succinate

Species: Daphnia

Test: EC50

Duration: 48h

Result: 112-150mg/l

Substance: dimethyl succinate

Species: Algae

Test: EC50

Duration: 72h

Result: >85mg/l

Substance: α^3 -butyrolactone

Species: Fish

Test: LC50

Duration: 96h

Result: 318 mg/l

Substance: α^3 -butyrolactone

Species: Daphnia

Test: EC50

Duration: 48h

Result: >500 mg/l

Substance: α^3 -butyrolactone

Species: Algae

Test: EC50

Duration: 72h

Result: >1000 mg/l

Substance: 1-butylpyrrolidin-2-one

Species: Fish

According to EC-Regulation 2015/830

Test: LC50
Duration: 96h
Result: >100mg/l

Substance: 1-butylpyrrolidin-2-one
Species: Algae
Test: EC50
Duration: 72h
Result: 130mg/l

Substance: 1-butylpyrrolidin-2-one
Species: Daphnia
Test: EC50
Duration: 48h
Result: >100mg/l

Substance: Hydrocarbons, C9, aromatics
Species: Fish
Test: LC50
Duration: 96h
Result: 9.2 mg/l

Substance: Hydrocarbons, C9, aromatics
Species: Daphnia
Test: EC50
Duration: 48h
Result: 3.2 mg/l

Substance: Hydrocarbons, C9, aromatics
Species: Algae
Test: EC50
Duration: 72h
Result: 2.9 mg/l

Substance: Hydrocarbons, C9, aromatics
Species: Fish
Test: NOEC
Duration: 28d
Result: 1.23 mg/l

Substance: Hydrocarbons, C9, aromatics
Species: Daphnia
Test: NOEC
Duration: 21d
Result: 2.14 mg/l

Substance: Hydrocarbons, C9, aromatics
Species: Algae
Test: NOEC
Duration: 72h
Result: 1 mg/l

12.2. Persistence and degradability

Substance	Biodegradability	Test	Result
dimethyl adipate	Yes	No data available	No data available
dimethyl succinate	Yes	No data available	No data available
α^3 -butyrolactone	Yes	Modified MITI Test	95%
1-butylpyrrolidin-2-one	Yes	No data available	No data available
Hydrocarbons, C9, aromatics	Yes	Manometric Respirometry Test	78%
dimethyl glutarate	Yes	No data available	No data available

12.3. Bioaccumulative potential

Substance	Potential bioaccumulation	LogPow	BCF
α^3 -butyrolactone	No	-0.566	No data available
1-butylpyrrolidin-2-one	No	1.265	No data available
Hydrocarbons, C9, aromatics	No	4.5	No data available

12.4. Mobility in soil

α^3 -butyrolactone: Log Koc= -0.3698154, Calculated from LogPow ().
1-butylpyrrolidin-2-one: Log Koc= 1.0801535, Calculated from LogPow (High mobility potential.).
Hydrocarbons, C9, aromatics: Log Koc= 3.64195, Calculated from LogPow (Moderate mobility potential.).

12.5. Results of PBT and vPvB assessment

According to EC-Regulation 2015/830

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
 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

According to EC-Regulation 2015/830

-
Biocidal reg. no.

Not applicable

Sources

Council Directive 94/33/EC of 22 June 1994 on the protection of young people at work.

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.

H302 - Harmful if swallowed.

H304 - May be fatal if swallowed and enters airways.

H315 - Causes skin irritation.

H318 - Causes serious eye damage.

H319 - Causes serious eye irritation.

H335 - May cause respiratory irritation.

H336 - May cause drowsiness or dizziness.

H411 - Toxic 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

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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)

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)**

2020-09-18(1.0)

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

2020-09-18