

# SAFETY DATA SHEET

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

### 1.1. Product identifier

**Trade name**

Graffiti Remover Blue Ice

**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**

2020-11-24

**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

Flam. Liq. 3; H226

Skin Irrit. 2; H315

Eye Irrit. 2; H319

See full text of H-phrases in section 2.2.

### 2.2. Label elements

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

Warning

**Hazard statement(s)**

Flammable liquid and vapour. (H226)

Causes skin irritation. (H315)

Causes serious eye irritation. (H319)

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	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	Store in a well-ventilated place. Keep cool. (P403+P235).
Disposal	Dispose of contents/container to an approved waste disposal plant. (P501).

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

Not applicable

### Additional labelling

Not applicable

### Unique formula identifier (UFI)

CUPJ-FXF8-J005-7UEM

### 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:	dimethyl glutarate
IDENTIFICATION NOS.:	CAS-no: 1119-40-0 EC-no: 214-277-2 REACH-no: 01-2119900156-49
CONTENT:	40-60%
CLP CLASSIFICATION:	NA
NAME:	dimethyl succinate
IDENTIFICATION NOS.:	CAS-no: 106-65-0 EC-no: 203-419-9 REACH-no: 01-2119486681-29
CONTENT:	15 - <25%
CLP CLASSIFICATION:	NA
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:	Naphtha (petroleum), hydrotreated heavy
IDENTIFICATION NOS.:	CAS-no: - EC-no: 265-150-3 REACH-no: 01-2119463258-33
CONTENT:	5 - <10%
CLP CLASSIFICATION:	Flam. Liq. 3, STOT SE 3, Asp. Tox. 1 H226, H304, H336, EUH066
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:	dimethyl adipate
IDENTIFICATION NOS.:	CAS-no: 627-93-0 EC-no: 211-020-6 REACH-no: 01-2119911093-50
CONTENT:	5 - <10%
CLP CLASSIFICATION:	NA
NAME:	propan-2-ol
IDENTIFICATION NOS.:	CAS-no: 67-63-0 EC-no: 200-661-7 REACH-no: 01-2119457558-25 Index-no: 603-117-00-0
CONTENT:	2.5 - <5%
CLP CLASSIFICATION:	Flam. Liq. 2, STOT SE 3, Eye Irrit. 2 H225, H319, H336
NOTE:	O
NAME:	docusate sodium

According to EC-Regulation 2015/830

IDENTIFICATION NOS.:	CAS-no: 577-11-7 EC-no: 209-406-4 REACH-no: 01-2119491296-29
CONTENT:	1 - <2.5%
CLP CLASSIFICATION:	Skin Irrit. 2, Eye Dam. 1 H315, 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. 2 Sum = Sum(Ci/S(G)CLi) = 2.8968 - 4.3452  
 Skin Cat. 2 Sum = Sum(Ci/S(G)CLi) = 1.3224 - 1.9836

Detergent:  
 5 - 15%: ALIPHATIC HYDROCARBONS, ALCOHOL  
 < 5%: ISOPROPYL ALCOHOL, ANIONIC SURFACTANTS

### 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 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

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

Rinse with water until the pain stops then continue to rinse for a further 30 minutes.

#### 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: Sulphur oxides. Carbon oxides. Some metal 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

Storages not yet ignited must be cooled by water mist. Remove flammable materials if conditions allow it. Ensure sufficient ventilation.

### 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

Avoid static electricity. Protect electrical equipment in accordance with current standards. Do not use spark-forming tools.

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.

### 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. Must be stored in a cool and well-ventilated area, away from possible sources of ignition.

#### 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

propan-2-ol

Long-term exposure limit (8-hour TWA reference period): 400 ppm | 999 mg/m<sup>3</sup>

Short-term exposure limit (15-minute reference period): 500 ppm | 1250 mg/m<sup>3</sup>

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>

Naphtha (petroleum), hydrotreated heavy

Long-term exposure limit (8-hour TWA reference period): 20 ppm | 37 mg/m<sup>3</sup>

Short-term exposure limit (15-minute reference period): 50 ppm | 92 mg/m<sup>3</sup>

#### DNEL / PNEC

DNEL (dimethyl succinate): 1,1mg/m<sup>3</sup>

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/m<sup>3</sup>

Exposure: Inhalation

Duration of Exposure: Long term – Systemic effects - Workers

DNEL (dimethyl succinate): 1,1mg/m<sup>3</sup>

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/m<sup>3</sup>

Exposure: Inhalation

Duration of Exposure: Short term – Systemic effects - Workers

According to EC-Regulation 2015/830

DNEL (dimethyl glutarate): 8,3mg/m<sup>3</sup>  
Exposure: Inhalation  
Duration of Exposure: Long term – Local effects - Workers

DNEL (dimethyl glutarate): 49,8mg/m<sup>3</sup>  
Exposure: Inhalation  
Duration of Exposure: Long term – Local effects - Workers

DNEL (dimethyl glutarate): 5mg/m<sup>3</sup>  
Exposure: Inhalation  
Duration of Exposure: Long term – Local effects - General population

DNEL (dimethyl glutarate): 50mg/m<sup>3</sup>  
Exposure: Inhalation  
Duration of Exposure: Short term – Local effects - General population

DNEL (Naphtha (petroleum), hydrotreated heavy): 300mg/kg bw/day  
Exposure: Dermal  
Duration of Exposure: Long term – Systemic effects - General population

DNEL (Naphtha (petroleum), hydrotreated heavy): 300mg/kg bw/day  
Exposure: Oral  
Duration of Exposure: Long term – Systemic effects - Workers

DNEL (Naphtha (petroleum), hydrotreated heavy): 300mg/kg bw/day  
Exposure: Dermal  
Duration of Exposure: Long term – Systemic effects - Workers

DNEL (Naphtha (petroleum), hydrotreated heavy): 1500mg/m<sup>3</sup>  
Exposure: Inhalation  
Duration of Exposure: Long term – Systemic effects - Workers

DNEL (Naphtha (petroleum), hydrotreated heavy): 900mg/m<sup>3</sup>  
Exposure: Inhalation  
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

DNEL (propan-2-ol): 319 mg/kg bw/d  
Exposure: Dermal  
Duration of Exposure: Long term – Systemic effects - General population

DNEL (propan-2-ol): 89 mg/m<sup>3</sup>  
Exposure: Inhalation  
Duration of Exposure: Long term – Systemic effects - General population

According to EC-Regulation 2015/830

DNEL (propan-2-ol): 26 mg/kg bw/d  
Exposure: Oral  
Duration of Exposure: Long term – Systemic effects - General population

DNEL (propan-2-ol): 888 mg/kg bw/d  
Exposure: Dermal  
Duration of Exposure: Long term – Systemic effects - Workers

DNEL (propan-2-ol): 500 mg/m<sup>3</sup>  
Exposure: Inhalation  
Duration of Exposure: Long term – Systemic effects - Workers

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/m<sup>3</sup>  
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/m<sup>3</sup>  
Exposure: Inhalation  
Duration of Exposure: Long term – Systemic effects - Workers

DNEL (docusate sodium): 200.89 mg/kg bw/day  
Exposure: Dermal  
Duration of Exposure: Long term – Systemic effects - Workers

DNEL (docusate sodium): 1416.82 mg/m<sup>3</sup>  
Exposure: Inhalation  
Duration of Exposure: Long term – Systemic effects - Workers

DNEL (docusate sodium): 419.25 mg/m<sup>3</sup>  
Exposure: Inhalation  
Duration of Exposure: Long term – Systemic effects - General population

DNEL (docusate sodium): 120.54 mg/kg bw/d  
Exposure: Dermal  
Duration of Exposure: Long term – Systemic effects - General population

DNEL (docusate sodium): 13.39 mg/kg bw/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

According to EC-Regulation 2015/830

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 (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

PNEC (propan-2-ol): 552 mg/kg dw  
Exposure: Marine water sediment

PNEC (propan-2-ol): 140.9 mg/l  
Exposure: Freshwater

PNEC (propan-2-ol): 28 mg/kg dw  
Exposure: Soil

According to EC-Regulation 2015/830

PNEC (propan-2-ol): 140.9 mg/l  
Exposure: Marine water

PNEC (propan-2-ol): 140.9 mg/l  
Exposure: Intermittent release

PNEC (propan-2-ol): 2251 mg/l  
Exposure: Sewage Treatment Plant

PNEC (propan-2-ol): 552 mg/kg dw  
Exposure: Freshwater sediment

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

PNEC (docusate sodium): 0.18 mg/l  
Exposure: Freshwater

PNEC (docusate sodium): 0.018 mg/l  
Exposure: Marine water

PNEC (docusate sodium): 0.152 mg/l  
Exposure: Intermittent release

PNEC (docusate sodium): 12.2 mg/l  
Exposure: Sewage Treatment Plant

PNEC (docusate sodium): 17.79 mg/kg dw  
Exposure: Freshwater sediment

PNEC (docusate sodium): 1.779 mg/kg dw  
Exposure: Marine water sediment

PNEC (docusate sodium): 1.04 mg/kg dw  
Exposure: Soil

## 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**

No specific requirements.

**Skin protection**

Dedicated work clothing should be worn.

**Hand protection**

Neoprene

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	Blue
Odour	Characteristic
Odour threshold (ppm)	No data available.
pH	No data available.
Viscosity (40°C)	No data available.
Density (g/cm <sup>3</sup> )	0.95

**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)	50
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.
-------------------------	--------------------

**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**

Avoid static electricity.

**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.

According to EC-Regulation 2015/830

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity

Substance: docusate sodium  
Species: Rabbit  
Test: LD50  
Route of exposure: Dermal  
Result: 2525 mg/kg

Substance: docusate sodium  
Species: Rat  
Test: LD50  
Route of exposure: Oral  
Result: >3000 mg/kg

Substance: propan-2-ol  
Species: Rabbit  
Test: LD50  
Route of exposure: Dermal  
Result: 13900 mg/kg

Substance: propan-2-ol  
Species: Rat  
Test: LD50  
Route of exposure: Oral  
Result: 5840 mg/kg

Substance: propan-2-ol  
Species: Rat  
Test: LC50  
Route of exposure: Inhalation  
Result: >25 mg/l, 6h ånga

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

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

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

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

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: Naphtha (petroleum), hydrotreated heavy  
Species: Rabbit  
Test: LD50

According to EC-Regulation 2015/830

Route of exposure: Dermal  
Result: >2000mg/kg

Substance: Naphtha (petroleum), hydrotreated heavy  
Species: Rat  
Test: LD50  
Route of exposure: Oral  
Result: >5000mg/kg

Substance: Naphtha (petroleum), hydrotreated heavy  
Species: Rat  
Test: LC50  
Route of exposure: Inhalation  
Result: >4.95mg/L 4h

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

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

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

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

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

**Skin corrosion/irritation**

Causes skin irritation.

**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**

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: docusate sodium  
Species: Daphnia  
Test: EC50  
Duration: 48h  
Result: 1-10 mg/l

According to EC-Regulation 2015/830

Substance: docusate sodium  
Species: Fish  
Test: LC50  
Duration: 96h  
Result: 10-100 mg/l

Substance: docusate sodium  
Species: Algae  
Test: EC50  
Duration: 72h  
Result: 10-100 mg/l

Substance: propan-2-ol  
Species: Daphnia  
Test: LC50  
Duration: 48h  
Result: >100 mg/l

Substance: propan-2-ol  
Species: Fish  
Test: LC50  
Duration: 96h  
Result: >100 mg/l

Substance: propan-2-ol  
Species: Algae  
Test: EC50  
Duration: 72h  
Result: >100mg/l

Substance: dimethyl adipate  
Species: Daphnia  
Test: EC50  
Duration: 48h  
Result: 112-150mg/l

Substance: dimethyl adipate  
Species: Fish  
Test: LC50  
Duration: 96h  
Result: 18-24mg/l

Substance: dimethyl adipate  
Species: Algae  
Test: EC50  
Duration: 72h  
Result: >85mg/l

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

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

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

Substance: Naphtha (petroleum), hydrotreated heavy  
Species: Daphnia  
Test: EC50  
Duration: 48h  
Result: >1000mg/l

According to EC-Regulation 2015/830

Substance: Naphtha (petroleum), hydrotreated heavy  
Species: Fish  
Test: LC50  
Duration: 96h  
Result: >1000mg/l

Substance: Naphtha (petroleum), hydrotreated heavy  
Species: Algae  
Test: EC50  
Duration: 72h  
Result: >1000mg/l

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

Substance: 1-butylpyrrolidin-2-one  
Species: Fish  
Test: LC50  
Duration: 96h  
Result: >100mg/l

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

Substance: dimethyl succinate  
Species: Daphnia  
Test: EC50  
Duration: 48h  
Result: 112-150mg/l

Substance: dimethyl succinate  
Species: Fish  
Test: LC50  
Duration: 96h  
Result: 12-24mg/l

Substance: dimethyl succinate  
Species: Algae  
Test: EC50  
Duration: 72h  
Result: >85mg/l

## 12.2. Persistence and degradability

Substance	Biodegradability	Test	Result
docusate sodium	Yes	No data available	No data available
propan-2-ol	Yes	No data available	No data available
dimethyl adipate	Yes	No data available	No data available
ethanol	Yes	CO2 Evolution Test	97%
Naphtha (petroleum), hydrotrea...	Yes	Manometric Respirometry	80
1-butylpyrrolidin-2-one	Yes	Test	No data available
dimethyl succinate	Yes	No data available	No data available
dimethyl glutarate	Yes	No data available	No data available

## 12.3. Bioaccumulative potential

Substance	Potential bioaccumulation	LogPow	BCF
docusate sodium	No	No data available	No data available
propan-2-ol	No	0.05	No data available
ethanol	No	-0.3	0.66
1-butylpyrrolidin-2-one	No	1.265	No data available

## 12.4. Mobility in soil

propan-2-ol: Log Koc= 0.117995, Calculated from LogPow (High mobility potential).  
ethanol: Log Koc= -0.15917, Calculated from LogPow (High mobility potential).  
Naphtha (petroleum), hydrotrea...: Log Koc= 2.4541, Calculated from LogPow (Moderate mobility potential).  
1-butylpyrrolidin-2-one: Log Koc= 1.0801535, Calculated from LogPow (High 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

Nothing special

## 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

This product is within scope of the regulations of transport of dangerous goods.

#### ADR/RID

14.1. UN number	1993
14.2. UN proper shipping name	FLAMMABLE LIQUID, N.O.S.
14.3. Transport hazard class(es)	3
14.4. Packing group	III
Notes	-
Tunnel restriction code	D/E

#### IMDG

UN-no.	1993
Proper Shipping Name	FLAMMABLE LIQUID, N.O.S.
Class	3
PG*	III
EmS	F-E, S-E
MP**	No
Hazardous constituent	-

#### IATA/CAO

UN-no.	1993
Proper Shipping Name	FLAMMABLE LIQUID, N.O.S.
Class	3
PG*	III

### 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

Seveso III Part 1: P5c

#### Biocidal reg. no.

Not applicable

According to EC-Regulation 2015/830

**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).  
 The Control of Major Accident Hazards (COMAH) Regulations 2015.

**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.  
 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.  
 H336 - May cause drowsiness or dizziness.  
 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:  
 The classification of the mixture in regard of physical hazards has been based on experimental data.  
 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)**

-