# Safety Data Sheet

acc. to The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/758 (as amended)

# WHITEBOARD FOAM

Version number: 1.0 First version: 2025-09-25

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

### 1.1 Product identifier

**Trade name** **WHITEBOARD FOAM**
Whiteboard cleaner, foam spray
400 ml spray can

**Product number** 575602

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

**Relevant identified uses** Cleaning agent

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

DURABLE Hunke & Jochheim GmbH & Co. KG
Westfalenstraße 77 – 79
58636 Iserlohn
Germany

Telephone: +49 (0) 2371 662 0
Telefax: +49 (0) 2371 662 221
e-mail: durable@durable.de
Website: www.durable.de

**e-mail (competent person)** sdb@csb-compliance.com

Please do not use this e-mail address to ask for the latest safety data sheet. For this purpose contact :

DURABLE Hunke & Jochheim GmbH & Co. KG
Telephone: +49 (0) 2371 662 350
e-Mail: durable-clean@durable.de

### 1.4 Emergency telephone number

**Poison centre**

| Country | Name | Telephone |
|---|---|---|
| Germany | Giftnotruf Berlin | +49 30 19240 |

As above or nearest toxicological information centre.

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Classification (acc. to GB CLP)**

**Classification**

| Section | Hazard class | Category | Hazard class and category | Hazard statement |
|---|---|---|---|---|
| 2.3 | aerosols | 1 | Aerosol 1 | H222,H229 |
| 3.3 | serious eye damage/eye irritation | 2 | Eye Irrit. 2 | H319 |

For full text of abbreviations: see SECTION 16

## 2.2 Label elements

**Labelling (acc. to GB CLP)**

**Signal word** danger

**Pictograms**

**GHS02, GHS07**

**Hazard statements**

| | |
|---|---|
| **H222** | Extremely flammable aerosol. |
| **H229** | Pressurised container: May burst if heated. |
| **H319** | Causes serious eye irritation. |

**Precautionary statements**

| | |
|---|---|
| **P101** | If medical advice is needed, have product container or label at hand. |
| **P102** | Keep out of reach of children. |
| **P210** | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| **P211** | Do not spray on an open flame or other ignition source. |
| **P251** | Do not pierce or burn, even after use. |
| **P410+P412** | Protect from sunlight. Do not expose to temperatures exceeding 50 °C. |

**Additional labelling according to Directive 75/324/EEC relating to aerosol dispensers**

Extremely flammable.
Keep out of reach of children.
Pressurized container: may burst if heated.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Do not pierce or burn, even after use.
Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

**Symbols:**

**Additional labelling requirements** see section 15 of the safety data sheet

## 2.3 Other hazards

**Results of PBT and vPvB assessment**

Does not contain a PBT-/vPvB-substance at a concentration of ≥ 0,1%.

**Endocrine disrupting properties**

Does not contain an endocrine disruptor (ED) at a concentration of ≥ 0,1%.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not relevant (mixture).

### 3.2 Mixtures

**Description of the mixture**

**Hazardous ingredients**

| Name of substance | Identifier | Wt% | Classification acc. to GHS | Pictograms | Notes |
|---|---|---|---|---|---|
| butane | CAS No<br>106-97-8<br><br>EC No<br>203-448-7<br><br>Index No<br>601-004-00-0 | 1 – < 3 | Flam. Gas 1A / H220<br>Press. Gas C / H280 |  | C<br>U(b) |
| alcohols, C11-14-iso-, C13-rich, ethoxylated | CAS No<br>78330-21-9 | 1 – < 3 | Acute Tox. 4 / H302<br>Eye Dam. 1 / H318 |  | - |
| (2-methoxymethyleth-oxy)propanol | CAS No<br>34590-94-8<br><br>EC No<br>252-104-2 | 1 – < 3 | - | - | - |
| sodium N-lauroylsarcos-inate | CAS No<br>137-16-6<br><br>EC No<br>205-281-5 | 0.3 – < 1 | Acute Tox. 2 / H330<br>Skin Irrit. 2 / H315<br>Eye Dam. 1 / H318 |  | - |

**Notes**

C: Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.

U(b): The allocation to the group ‘compressed gas’ is based on the physical state in which the gas is packaged

| Name of substance | Specific Conc. Limits | M-Factors | ATE | Exposure route |
|---|---|---|---|---|
| alcohols, C11-14-iso-, C13-rich, ethoxylated | - | - | 500 $^{mg}/_{kg}$ | oral |
| sodium N-lauroylsarcosinate | - | - | 0.05 $^{mg}/_{l}$/4h | inhalation: dust/mist |

**Remarks**

For full text of H-phrases: see SECTION 16

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

**General notes**

Remove affected person from the danger area and lay down.

Do not leave affected person unattended.
In all cases of doubt, or when symptoms persist, seek medical advice.

**Following inhalation**

Provide fresh air.
If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions.

**Following skin contact**

Wash with plenty of soap and water.

**Following eye contact**

Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.

**Following ingestion**

Rinse mouth. Do not induce vomiting.
Get medical advice/attention if you feel unwell.

**Notes for the doctor**

None.

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

This information is not available.

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

None.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media**

water spray, alcohol resistant foam, fire extinguishing powder

**Unsuitable extinguishing media**

water jet

### 5.2 Special hazards arising from the substance or mixture

Combustible.
Hazardous decomposition products: Section 10.
In case of insufficient ventilation and/or in use, may form flammable/explosive vapour-air mixture.

**Hazardous combustion products**

nitrogen oxides (NOx), carbon monoxide (CO), carbon dioxide ($CO_2$)

### 5.3 Advice for firefighters

Keep containers cool with water spray.
In case of fire and/or explosion do not breathe fumes.
Co-ordinate firefighting measures to the fire surroundings.
Do not allow firefighting water to enter drains or water courses.
Collect contaminated firefighting water separately.
Fight fire with normal precautions from a reasonable distance.

**Special protective equipment for firefighters**

Wear self-contained breathing apparatus

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel**

Remove persons to safety.
Ventilate affected area.
Eliminate all ignition sources if safe to do so.
Wearing of suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing.

**For emergency responders**

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

### 6.2 Environmental precautions

Keep away from drains, surface and ground water.
Retain contaminated washing water and dispose of it.

### 6.3 Methods and material for containment and cleaning up

**Advice on how to contain a spill**

Covering of drains.

**Advice on how to clean up a spill**

Collect spillage.
Absorbent material (e.g. sand, diatomaceous earth, acid binder, universal binder, sawdust, etc.).

**Other information relating to spills and releases**

Place in appropriate containers for disposal.
Ventilate affected area.

### 6.4 Reference to other sections

Hazardous combustion products: see section 5.
Personal protective equipment: see section 8.
Incompatible materials: see section 10.
Disposal considerations: see section 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Do not get in eyes, on skin, or on clothing.

**Measures to prevent fire as well as aerosol and dust generation**

Use local and general ventilation.
Keep away from sources of ignition - No smoking.
Take precautionary measures against static discharge.
Ground/bond container and receiving equipment.

**Measures to protect the environment**

Avoid release to the environment.
Do not empty into drains; dispose of this material and its container at hazardous or special waste collection point.

**Advice on general occupational hygiene**

Do not eat, drink and smoke in work areas.

Wash hands after use.
Preventive skin protection (barrier creams/ointments) is recommended.
Remove contaminated clothing and protective equipment before entering eating areas.

### 7.2 Conditions for safe storage, including any incompatibilities

**Explosive atmospheres**

Prevent from heating up above 50 °C/122 °F.
Protect from sunlight.

**Flammability hazards**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Do not spray on an open flame or other ignition source.
Protect from sunlight.

**Incompatible substances or mixtures**

Incompatible materials: see section 10.
Do not pierce or burn, even after use.

**Protect against external exposure, such as**

high temperatures, frost, sunlight

**Consideration of other advice**

Keep away from food, drink and animal feedingstuffs.

**Ventilation requirements**

Provision of sufficient ventilation.

**Specific designs for storage rooms or vessels**

Keep container tightly closed and in a well-ventilated place.
Keep cool.

**Packaging compatibilities**

Only packagings which are approved (e.g. acc. to ADR) may be used.

### 7.3 Specific end use(s)

No information available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

**Occupational exposure limit values (Workplace Exposure Limits)**

| Country | Name of agent | CAS No | Identifier | TWA [ppm] | TWA [mg/m³] | STEL [ppm] | STEL [mg/m³] | Notation | Source |
|---|---|---|---|---|---|---|---|---|---|
| EU | (2-methoxymethylethoxy)propanol | 34590-94-8 | IOELV | 50 | 308 | - | - | H | 2000/39/EC |
| GB | butane | 106-97-8 | WEL | 600 | 1,450 | 750 | 1,810 | - | EH40/2005 |
| GB | (2-methoxymethylethoxy)propanol | 34590-94-8 | WEL | 50 | 308 | - | - | H | EH40/2005 |

**Notation**

| | |
|---|---|
| H | absorbed through the skin |
| STEL | short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period |

**Notation**

(unless otherwise specified)

TWA time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

### Human health values

**Relevant DNELs of components**

| Name of substance | CAS No | Endpoint | Threshold level | Protection goal, route of exposure | Used in | Exposure time |
|---|---|---|---|---|---|---|
| (2-methoxymethyl-ethoxy)propanol | 34590-94-8 | DNEL | 308 mg/m³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| (2-methoxymethyl-ethoxy)propanol | 34590-94-8 | DNEL | 283 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |
| sodium N-lauroylsar-cosinate | 137-16-6 | DNEL | 70.53 mg/m³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| sodium N-lauroylsar-cosinate | 137-16-6 | DNEL | 20 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |

### Environmental values

**Relevant PNECs of components**

| Name of substance | CAS No | Endpoint | Threshold level | Environmental compartment |
|---|---|---|---|---|
| (2-methoxymethylethoxy)propanol | 34590-94-8 | PNEC | 19 $^{mg}/_{l}$ | freshwater |
| (2-methoxymethylethoxy)propanol | 34590-94-8 | PNEC | 1.9 $^{mg}/_{l}$ | marine water |
| (2-methoxymethylethoxy)propanol | 34590-94-8 | PNEC | 4,168 $^{mg}/_{l}$ | sewage treatment plant (STP) |
| (2-methoxymethylethoxy)propanol | 34590-94-8 | PNEC | 70.2 $^{mg}/_{kg}$ | freshwater sediment |
| (2-methoxymethylethoxy)propanol | 34590-94-8 | PNEC | 7.02 $^{mg}/_{kg}$ | marine sediment |
| (2-methoxymethylethoxy)propanol | 34590-94-8 | PNEC | 2.74 $^{mg}/_{kg}$ | soil |
| sodium N-lauroylsarcosinate | 137-16-6 | PNEC | 0.009 $^{mg}/_{l}$ | freshwater |
| sodium N-lauroylsarcosinate | 137-16-6 | PNEC | 0.001 $^{mg}/_{l}$ | marine water |
| sodium N-lauroylsarcosinate | 137-16-6 | PNEC | 3 $^{mg}/_{l}$ | sewage treatment plant (STP) |
| sodium N-lauroylsarcosinate | 137-16-6 | PNEC | 0.064 $^{mg}/_{kg}$ | freshwater sediment |
| sodium N-lauroylsarcosinate | 137-16-6 | PNEC | 0.006 $^{mg}/_{kg}$ | marine sediment |
| sodium N-lauroylsarcosinate | 137-16-6 | PNEC | 0.008 $^{mg}/_{kg}$ | soil |

## 8.2 Exposure controls

### Appropriate engineering controls

Use local and general ventilation.

### Individual protection measures (personal protective equipment)

### Eye/face protection

Wear eye/face protection. (EN 166)

**Hand protection**

| Protective gloves | | |
|---|---|---|
| **Material** | **Material thickness** | **Breakthrough times of the glove material** |
| NBR: acrylonitrile-butadiene rubber | ≥ 0,3 mm | >480 minutes (permeation: level 6) |

Wear suitable gloves.
Chemical protection gloves are suitable, which are tested according to EN 374.
Check leak-tightness/impermeability prior to use.
For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

**Body protection**

Protective clothing against liquid chemicals.
(EN 13832, EN 340, EN 13034, EN 14605).

**Respiratory protection**

In case of inadequate ventilation wear respiratory protection.
During spraying wear suitable respiratory equipment.
(EN 136, EN 140, EN 14387, EN 143, EN 149).

**Environmental exposure controls**

Use appropriate container to avoid environmental contamination.
Keep away from drains, surface and ground water.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

| | |
|---|---|
| **Physical state** | liquid, (spray aerosol) |
| **Colour** | not determined |
| **Odour** | characteristic |
| **Melting point/freezing point** | not applicable |
| **Boiling point or initial boiling point and boiling range** | not determined |
| **Flammability** | flammable aerosol in accordance with GHS criteria |
| **Lower and upper explosion limit** | not determined |
| **Flash point** | not determined |
| **Auto-ignition temperature** | not applicable (aerosol) |
| **Decomposition temperature** | not relevant |
| **pH (value)** | 8 – 11 |
| **Viscosity** | not relevant (aerosol) |
| **Solubility(ies)** | |

| | |
|---|---|
| Water solubility | not determined |
| **Partition coefficient n-octanol/water (log value)** | not determined |
| **Vapour pressure** | 43 hPa at 20 °C<br>(CAS 67-63-0) |
| **Density and/or relative density** | |
| Density | 0.79 $^{g}/_{cm^3}$<br>(CAS 67-63-0) |
| Relative vapour density | information on this property is not available |
| **Particle characteristics** | not relevant<br>(aerosol) |

**9.2 Other information**

| | |
|---|---|
| **Information with regard to physical hazard classes** | there is no additional information |
| **Other safety characteristics** | |
| Propellant content | 6 % |

## SECTION 10: Stability and reactivity

**10.1 Reactivity**

Risk of ignition.

**10.2 Chemical stability**

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
See below "Conditions to avoid".

**10.3 Possibility of hazardous reactions**

No known hazardous reactions.

**10.4 Conditions to avoid**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Do not spray on an open flame or other ignition source.
Contains gas under pressure; may explode if heated.
Protect from sunlight.

**10.5 Incompatible materials**

There is no additional information.

**10.6 Hazardous decomposition products**

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known.
Hazardous combustion products: see section 5.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

**Classification procedure**

If not otherwise specified the classification is based on:
Ingredients of the mixture (additivity formula).

**Classification acc. to GHS**

**Acute toxicity**

Test data are not available for the complete mixture.
The classification criteria for this hazard class are not met.

**Acute toxicity of components**

**Acute toxicity estimate (ATE) of components**

| Name of substance | CAS No | Exposure route | ATE |
|---|---|---|---|
| alcohols, C11-14-iso-, C13-rich, ethoxylated | 78330-21-9 | oral | 500 $^{mg}/_{kg}$ |
| sodium N-lauroylsarcosinate | 137-16-6 | inhalation: dust/mist | 0.05 $^{mg}/_{l}$/4h |

**Acute toxicity of components**

| Name of substance | CAS No | Exposure route | Endpoint | Value | Species | Method | Source |
|---|---|---|---|---|---|---|---|
| (2-methoxymethylethoxy)propanol | 34590-94-8 | oral | LD0 | >5,000 $^{mg}/_{kg}$ | rat | OECD Guideline 401 | ECHA |
| (2-methoxymethylethoxy)propanol | 34590-94-8 | dermal | LD50 | 9,510 $^{mg}/_{kg}$ | rabbit, male | OECD Guideline 402 | ECHA |
| sodium N-lauroylsarcosinate | 137-16-6 | oral | LD50 | >5,000 $^{mg}/_{kg}$ | rat | OECD Guideline 401 | ECHA |
| sodium N-lauroylsarcosinate | 137-16-6 | inhalation: dust/mist | LC50 | >0.05 – < 0.5 $^{mg}/_{l}$/4h | rat | OECD Guideline 403 | ECHA |

**Skin corrosion/irritation**

Shall not be classified as corrosive/irritant to skin.

**Serious eye damage/eye irritation**

Causes serious eye irritation.

**Respiratory or skin sensitisation**
**Skin sensitisation**

Based on available data, the classification criteria are not met.

**Respiratory sensitisation**

Based on available data, the classification criteria are not met.

**Germ cell mutagenicity**

Based on available data, the classification criteria are not met.

**Carcinogenicity**

Classification could not be established because:
Data are lacking, inconclusive, or conclusive but not sufficient for classification.

**Reproductive toxicity**

Based on available data, the classification criteria are not met.

**Specific target organ toxicity - single exposure**

Based on available data, the classification criteria are not met.

**Specific target organ toxicity - repeated exposure**

Based on available data, the classification criteria are not met.

**Aspiration hazard**

Shall not be classified as presenting an aspiration hazard.

### 11.2 Information on other hazards

**Endocrine disrupting properties**

Does not contain an endocrine disruptor (ED) at a concentration of ≥ 0,1%.

## SECTION 12: Ecological information

### 12.1 Toxicity

**Aquatic toxicity (acute)**

Based on available data, the classification criteria are not met.

**Aquatic toxicity (acute) of components**

| Name of substance | CAS No | Endpoint | Exposure time | Value | Species | Method | Source |
|---|---|---|---|---|---|---|---|
| butane | 106-97-8 | LC50 | 96 h | 24.11 $^{mg}/_{l}$ | fish | Qsar | ECHA |
| butane | 106-97-8 | LC50 | 48 h | 14.22 $^{mg}/_{l}$ | aquatic invertebrates | Qsar | ECHA |
| butane | 106-97-8 | EC50 | 96 h | 7.71 $^{mg}/_{l}$ | green algae | (Q)SAR | ECHA |
| (2-methoxymethylethoxy)propanol | 34590-94-8 | LC50 | 96 h | >1,000 $^{mg}/_{l}$ | guppy (Poecilia reticulata) | OECD Guideline 203 | ECHA |
| (2-methoxymethylethoxy)propanol | 34590-94-8 | LC50 | 48 h | >1,000 $^{mg}/_{l}$ | Crangon crangon | EPA OPP 72-3 | ECHA |
| (2-methoxymethylethoxy)propanol | 34590-94-8 | ErC50 | 72 h | >969 $^{mg}/_{l}$ | algae (pseudokirchneriella subcapitata) | EU method C.3 | ECHA |
| (2-methoxymethylethoxy)propanol | 34590-94-8 | EbC50 | 72 h | >969 $^{mg}/_{l}$ | algae (pseudokirchneriella subcapitata) | EU method C.3 | ECHA |
| sodium N-lauroylsarcosinate | 137-16-6 | LC50 | 96 h | 107 $^{mg}/_{l}$ | zebra fish (Danio rerio) | OECD Guideline 203 | ECHA Chem |
| sodium N- | 137-16-6 | EC50 | 48 h | 8.91 $^{mg}/_{l}$ | daphnia magna | OECD | ECHA Chem |

| Name of substance | CAS No | Endpoint | Exposure time | Value | Species | Method | Source |
|---|---|---|---|---|---|---|---|
| lauroylsarcosinate | | | | | | Guideline 202 | |
| sodium N-lauroylsarcosinate | 137-16-6 | EC50 | 72 h | 39 $^{mg}/_{l}$ | green algae (Desmodesmus subspicatus) | OECD Guideline 201 | ECHA Chem |
| sodium N-lauroylsarcosinate | 137-16-6 | ErC50 | 72 h | 79 $^{mg}/_{l}$ | green algae (Desmodesmus subspicatus) | OECD Guideline 201 | ECHA |

**Aquatic toxicity (chronic)**

Based on available data, the classification criteria are not met.

**Aquatic toxicity (chronic) of components**

| Name of substance | CAS No | Endpoint | Exposure time | Value | Species | Method | Source |
|---|---|---|---|---|---|---|---|
| butane | 106-97-8 | NOEC | 30 d | 10.01 $^{mg}/_{l}$ | fish | - | ECHA Chem |
| (2-methoxymethylethoxy)propanol | 34590-94-8 | NOEC | 72 h | 969 $^{mg}/_{l}$ | algae (pseudokirchneriella subcapitata) | EU method C.3 | ECHA |
| (2-methoxymethylethoxy)propanol | 34590-94-8 | LOEC | 22 d | 0.5 $^{mg}/_{l}$ | daphnia magna | OECD Guideline 211 | ECHA |
| (2-methoxymethylethoxy)propanol | 34590-94-8 | growth (EbCx) 10% | 18 h | 4,168 $^{mg}/_{l}$ | activated sludge (Pseudomonas putida) | - | ECHA |
| sodium N-lauroylsarcosinate | 137-16-6 | EC50 | 3 h | >1,000 $^{mg}/_{l}$ | microorganisms | OECD Guideline 209 | ECHA Chem |
| sodium N-lauroylsarcosinate | 137-16-6 | LOEC | 72 h | 29 $^{mg}/_{l}$ | green algae (Desmodesmus subspicatus) | OECD Guideline 201 | ECHA |
| sodium N-lauroylsarcosinate | 137-16-6 | NOEC | 72 h | 9.2 $^{mg}/_{l}$ | green algae (Desmodesmus subspicatus) | OECD Guideline 201 | ECHA Chem |
| sodium N-lauroylsarcosinate | 137-16-6 | NOEC | 3 h | 30 $^{mg}/_{l}$ | microorganisms | OECD Guideline 209 | ECHA Chem |

## 12.2 Persistence and degradability

**Biodegradation**

The relevant substances of the mixture are readily biodegradable.

**Degradability of components**

| Name of substance | CAS No | Process | Degradation rate | Time | Method | Source |
|---|---|---|---|---|---|---|
| (2-methoxymethylethoxy)propanol | 34590-94-8 | oxygen depletion | 79 % | 28 d | OECD Guideline 301 F | ECHA |
| (2-methoxymethylethoxy)propanol | 34590-94-8 | carbon dioxide generation | 76 % | 28 d | OECD Guideline 301 F | ECHA |
| (2-methoxymethylethoxy)propanol | 34590-94-8 | DOC removal | 96 % | 28 d | OECD Guideline 301 F | ECHA |
| sodium N-lauroylsarcosinate | 137-16-6 | carbon dioxide generation | 82 % | 28 d | ISO 14593 | ECHA |

**Persistence**

No data available.

### 12.3 Bioaccumulative potential

**Bioaccumulative potential of components**

| Name of substance | CAS No | BCF | Log KOW |
|---|---|---|---|
| butane | 106-97-8 | - | 1.09 (pH value: 7, 20 °C) |
| (2-methoxymethylethoxy)propanol | 34590-94-8 | - | 0.004 (25 °C) |
| sodium N-lauroylsarcosinate | 137-16-6 | - | 0.37 |

### 12.4 Mobility in soil

No data available.

### 12.5 Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance at a concentration of ≥ 0,1%.

### 12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of ≥ 0,1%.

### 12.7 Other adverse effects

No data available.

**Remarks**

Wassergefährdungsklasse, WGK (water hazard class): 1.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

This material and its container must be disposed of as hazardous waste.

**Sewage disposal-relevant information**

Do not empty into drains.

**Waste treatment of containers/packagings**

Completely emptied packages can be recycled.
Handle contaminated packages in the same way as the substance itself.

**Remarks**

Please consider the relevant national or regional provisions.

## SECTION 14: Transport information

| | | |
|---|---|---|
| **14.1** | **UN number** | |
| | **ADR/RID** | UN1950 |
| | **IMDG-Code** | UN1950 |
| | **ICAO-TI** | UN1950 |
| **14.2** | **UN proper shipping name** | |
| | **ADR/RID** | AEROSOLS |
| | **IMDG-Code** | AEROSOLS |
| | **ICAO-TI** | Aerosols, flammable |
| **14.3** | **Transport hazard class(es)** | |
| | **ADR/RID** | 2 (2.1) |
| | **IMDG-Code** | 2.1 |
| | **ICAO-TI** | 2.1 |
| **14.4** | **Packing group** | - |
| **14.5** | **Environmental hazards** | - |
| **14.6** | **Special precautions for user** | - |
| **14.7** | **Maritime transport in bulk according to IMO instruments** | - |

**14.8** **Information for each of the UN Model Regulations**

**Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). Regulations concerning the International Carriage of Dangerous Goods by Rail (RID). Additional information**

| | |
|---|---|
| Particulars in the transport document | UN1950, AEROSOLS, 2.1, (D) |
| Classification code | 5F |
| Danger label(s) | 2.1 |

| | |
|---|---|
| Special provisions (SP) | 190, 327, 344, 625 |
| Excepted quantities (EQ) | E0 |

| | |
|---|---|
| Limited quantities (LQ) | 1 L |
| Transport category (TC) | 2 |
| Tunnel restriction code (TRC) | D |

**International Maritime Dangerous Goods Code (IMDG) Additional information**

| | |
|---|---|
| Marine pollutant | - |
| Danger label(s) | 2.1 |

| | |
|---|---|
| Special provisions (SP) | 63, 190, 277, 327, 344, 381, 959 |
| Excepted quantities (EQ) | E0 |
| Limited quantities (LQ) | 1 L |
| EmS | F-D, S-U |
| Stowage category | - |

**International Civil Aviation Organization (ICAO-IATA/DGR) Additional information**

| | |
|---|---|
| Danger label(s) | 2.1 |

| | |
|---|---|
| Special provisions (SP) | A145, A167 |
| Excepted quantities (EQ) | E0 |
| Limited quantities (LQ) | 30 kg |

## SECTION 15: Regulatory information

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

**Relevant provisions of the European Union (EU)**

**Seveso Directive**

**2012/18/EU (Seveso III)**

| No | Dangerous substance/hazard categories | Qualifying quantity (tonnes) for the application of lower and upper-tier requirements | | Notes |
|---|---|---|---|---|
| P3a | flammable aerosols (containing Flam. Gas or Flam. Liq., cat. 1) | 150 | 500 | 46) |

**Notation**

46) 'flammable' aerosols category 1 or 2, containing flammable gases category 1 or 2 or flammable liquids category 1
Note: qualifying quantity = net

**Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment**

**(RoHS)**

None of the ingredients are listed.

**Regulation 648/2004/EC on detergents**

| Labelling of contents | |
|---|---|
| **Wt%** | **Constituents** |
| ≥5% - <15% | aliphatic hydrocarbons |
| < 5 % | anionic surfactants<br>non-ionic surfactants |
| - | perfumes (CITRUS AURANTIUM FLOWER OIL) |

**Regulation on the marketing and use of explosives precursors**

None of the ingredients are listed.

**Regulation on drug precursors**

None of the ingredients are listed.

**Regulation on substances that deplete the ozone layer (ODS)**

None of the ingredients are listed.

**Regulation concerning the export and import of hazardous chemicals (PIC)**

None of the ingredients are listed.

**Regulation on persistent organic pollutants (POP)**

None of the ingredients are listed.

**National regulations (GB)**

**List of substances subject to authorisation (GB REACH, Annex 14) / SVHC - candidate list**

None of the ingredients are listed

**Restrictions according to GB REACH, Annex 17**

| Dangerous substances with restrictions (GB REACH, Annex 17) | | | |
|---|---|---|---|
| **Name of substance** | **Name acc. to inventory** | **CAS No** | **Conditions of restriction** |
| alcohols, C11-14-iso-, C13-rich, ethoxylated | this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC | - | R3 |
| butane | flammable / pyrophoric | - | R40 |
| propane | flammable / pyrophoric | - | R40 |
| isobutane | flammable / pyrophoric | - | R40 |

**Legend**

R3 1. Shall not be used in:
— ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,
— tricks and jokes,
— games for one or more participants, or any article intended to be used as such, even with ornamental aspects,
2. Articles not complying with paragraph 1 shall not be placed on the market.
3. Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both,

**Legend**

if they:
— can be used as fuel in decorative oil lamps for supply to the general public, and,
— present an aspiration hazard and are labelled with R65 or H304,
4. Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the British Standard Specification on Decorative oil lamps (BS EN 14059) adopted by the British Standards Institute.
5. Without prejudice to the implementation of other legislation relating to the classification, packaging and labelling of dangerous substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met:
(a) lamp oils, labelled with R65 or H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: 'Keep lamps filled with this liquid out of the reach of children'; and, by 1 December 2010 'Just a sip of lamp oil
— or even sucking the wick of lamps
— may lead to life-threatening lung damage';
(b) grill lighter fluids, labelled with R65 or H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as
follows: 'Just a sip of grill lighter may lead to life-threatening lung damage';
(c) lamp oils and grill lighters, labelled with R65 or H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.
7. Natural or legal persons placing on the market for the first time lamp oils and grill lighter fluids, labelled with R65 or H304, shall by 1 December 2011, and annually thereafter, provide data on alternatives to lamp oils and grill lighter fluids labelled R65 or H304 to the Agency.

R40 1. Shall not be used, as substance or as mixtures in aerosol dispensers where these aerosol dispensers are intended for supply to the general public for entertainment and decorative purposes such as the following:
— metallic glitter intended mainly for decoration,
— artificial snow and frost,
— 'whoopee' cushions,
— silly string aerosols,
— imitation excrement,
— horns for parties,
— decorative flakes and foams,
— artificial cobwebs,
— stink bombs.
2. Without prejudice to the application of other legislation on the classification, packaging and labelling of substances, suppliers shall ensure before the placing on the market that the packaging of aerosol dispensers referred to above is marked visibly, legibly and indelibly with:
'For professional users only'.
3. By way of derogation, paragraphs 1 and 2 shall not apply to the aerosol dispensers referred to Article 8 (1a) of Council Directive 75/324/EEC (***).
4. The aerosol dispensers referred to in paragraphs 1 and 2 shall not be placed on the market unless they conform to the requirements indicated.
(***) OJ L 147, 9.6.1975, p. 40.

### 15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this mixture by the supplier.

## SECTION 16: Other information

### Abbreviations and acronyms

| Abbr. | Descriptions of used abbreviations |
|---|---|
| 2000/39/EC | Commission Directive establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC |
| Acute Tox. | Acute toxicity |
| ADR | Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road) |
| ATE | Acute Toxicity Estimate |
| BCF | Bioconcentration factor |

| Abbr. | Descriptions of used abbreviations |
|---|---|
| CAS | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances) |
| DGR | Dangerous Goods Regulations (see IATA/DGR) |
| DNEL | Derived No-Effect Level |
| EbC50 | ≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control |
| EC50 | Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval |
| EC No | The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union) |
| ED | Endocrine disruptor |
| EH40/2005 | EH40/2005 Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-government-licence/) |
| EINECS | European Inventory of Existing Commercial Chemical Substances |
| ELINCS | European List of Notified Chemical Substances |
| EmS | Emergency Schedule |
| ErC50 | ≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control |
| Eye Dam. | Seriously damaging to the eye |
| Eye Irrit. | Irritant to the eye |
| Flam. Gas | Flammable gas |
| GB CLP | The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/720 (as amended) |
| GB REACH | The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/758 (as amended) |
| GHS | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations |
| IATA | International Air Transport Association |
| IATA/DGR | Dangerous Goods Regulations (DGR) for the air transport (IATA) |
| ICAO | International Civil Aviation Organization |
| ICAO-TI | Technical instructions for the safe transport of dangerous goods by air |
| IMDG | International Maritime Dangerous Goods Code |
| IMDG-Code | International Maritime Dangerous Goods Code |
| index No | The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008 |
| IOELV | Indicative occupational exposure limit value |
| LC50 | Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval |
| LD50 | Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval |
| LOEC | Lowest Observed Effect Concentration |
| log KOW | n-Octanol/water |
| NLP | No-Longer Polymer |

| Abbr. | Descriptions of used abbreviations |
|---|---|
| NOEC | No Observed Effect Concentration |
| PBT | Persistent, Bioaccumulative and Toxic |
| PNEC | Predicted No-Effect Concentration |
| ppm | Parts per million |
| Press. Gas | Gas under pressure |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals |
| RID | Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail) |
| Skin Corr. | Corrosive to skin |
| Skin Irrit. | Irritant to skin |
| STEL | Short-term exposure limit |
| TWA | Time-weighted average |
| vPvB | Very Persistent and very Bioaccumulative |
| WEL | Workplace exposure limit |

**Key literature references and sources for data**

The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/758 (as amended).
The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/720 (as amended).
GB mandatory classification and labelling.
Agreement concerning the International Carriage of Dangerous Goods by Road (ADR).
Regulations concerning the International Carriage of Dangerous Goods by Rail (RID).
International Maritime Dangerous Goods Code (IMDG).
Dangerous Goods Regulations (DGR) for the air transport (IATA).

**Classification procedure**

Physical and chemical properties.
Health hazards.
Environmental hazards.
The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

**List of relevant phrases (code and full text as stated in section 2 and 3)**

| Code | Text |
|---|---|
| H220 | Extremely flammable gas. |
| H222 | Extremely flammable aerosol. |
| H229 | Pressurised container: May burst if heated. |
| H280 | Contains gas under pressure; may explode if heated. |
| H302 | Harmful if swallowed. |
| H315 | Causes skin irritation. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |

| Code | Text |
|---|---|
| H330 | Fatal if inhaled. |

**Responsible for the safety data sheet**

C.S.B. GmbH
Dujardinstr. 5
47829 Krefeld
Germany

Telephone: +49 (0) 2151 - 652086 - 0
Telefax: +49 (0) 2151 - 652086 - 9
e-Mail: info@csb-compliance.com
Website: www.csb-compliance.com

**Disclaimer**

This information is based upon the present state of our knowledge.
This SDS has been compiled and is solely intended for this product.