

Whitewall Cleaner HD

Version number: GHS 3.0
Replaces version of: 2016-09-02 (GHS 2)

Revision: 2019-06-17

SECTION 1: Identification

1.1 Product identifier

Trade name

Whitewall Cleaner HD

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

Relevant identified uses

Multi-Purpose Cleaner

Uses advised against

Do not use for squirting or spraying. Do not use for products which come into direct contact with the skin.

1.3 Details of the supplier of the safety data sheet

B&B Blending, LLC
10963 Leroy Drive
Northglenn CO 80233
United States

Telephone: 1.800.875.6320, 1.303.289.6320
e-mail: info@bbblending.com
Website: bbblending.com

e-mail (competent person)

btirrell@bbblending.com

1.4 Emergency telephone number

Emergency information service

USA 1.800.535.5053, INTL 1.352.323.3500
24 hr emergency information

SECTION 2: Hazard(s) identification

2.1 Classification of the substance or mixture

Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

| Section | Hazard class | Category | Hazard class and category | Hazard statement |
|---------|--|----------|---------------------------|------------------|
| A.2 | skin corrosion/irritation | 1B | Skin Corr. 1B | H314 |
| A.3 | serious eye damage/eye irritation | 1 | Eye Dam. 1 | H318 |
| B.16 | substance or mixture corrosive to metals | 1 | Met. Corr. 1 | H290 |

For full text of abbreviations: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects

Skin corrosion produces an irreversible damage to the skin; namely, visible necrosis through the epidermis and into the dermis.

2.2 Label elements

Labelling acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

- Signal word danger

- Pictograms

GHS05



- Hazard statements

H290

May be corrosive to metals.

H314

Causes severe skin burns and eye damage.



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- Precautionary statements

| | |
|----------------|--|
| P234 | Keep only in original container. |
| P260 | Do not breathe dust/fume/gas/mist/vapors/spray. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P301+P330+P331 | If swallowed: Rinse mouth. Do NOT induce vomiting. |
| P303+P361+P353 | If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. |
| P304+P340 | If inhaled: Remove person to fresh air and keep comfortable for breathing. |
| P305+P351+P338 | If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P310 | Immediately call a poison center/doctor. |
| P321 | Specific treatment (see on this label). |
| P363 | Wash contaminated clothing before reuse. |
| P390 | Absorb spillage to prevent material damage. |
| P405 | Store locked up. |
| P406 | Store in corrosive resistant container with a resistant inner liner. |
| P501 | Dispose of contents/container in accordance with local/regional/national/international regulations. |

- Hazardous ingredients for labelling Alcohols, C9-11 ethoxylated, potassium hydroxide

2.3 Other hazards

Hazards not otherwise classified

Toxic to aquatic life with long lasting effects (GHS category 2: aquatic toxicity - acute and/or chronic).

Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture)

3.2 Mixtures

Description of the mixture

| Hazardous ingredients acc. to GHS | | | | |
|-----------------------------------|----------------------|----------|---|-------|
| Name of substance | Identifier | Wt% | Classification acc. to GHS | Notes |
| Alcohols, C9-11 ethoxylated | CAS No 68439-46-3 | 3 - < 12 | Acute Tox. 4 / H302 Acute Tox. 4 / H312 Eye Dam. 1 / H318 | |
| 2-butoxy-1-ethanol | CAS No 111-76-2 | 3 - < 12 | Acute Tox. 4 / H302 Acute Tox. 4 / H312 Acute Tox. 4 / H332 Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Flam. Liq. 4 / H227 | IOELV |
| potassium hydroxide | CAS No 1310-58-3 | 1 - < 3 | Acute Tox. 4 / H302 Skin Corr. 1A / H314 Met. Corr. 1 / H290 | |
| sodium metasilicate, anhydrous | CAS No 6834-92-0 | 1 - < 3 | Acute Tox. 4 / H302 Acute Tox. 3 / H331 Skin Corr. 1B / H314 Eye Dam. 1 / H318 STOT SE 3 / H335 Met. Corr. 1 / H290 | |



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| Hazardous ingredients acc. to GHS | | | | |
|-----------------------------------|----------------------|-----------|--|-------|
| Name of substance | Identifier | Wt% | Classification acc. to GHS | Notes |
| disodium cocoamphodipropionate | CAS No 68604-71-7 | 1 - < 3 | Eye Irrit. 2B / H320 Flam. Liq. 4 / H227 | |
| methanol | CAS No 67-56-1 | 0.1 - < 1 | Acute Tox. 3 / H301 Acute Tox. 3 / H311 Acute Tox. 3 / H331 STOT SE 1 / H370 Flam. Liq. 2 / H225 | IOELV |

Notes

IOELV: Substance with a community indicative occupational exposure limit value

For full text of abbreviations: see SECTION 16. Exact percentage of ingredients is withheld as a trade secret.

SECTION 4: First-aid measures

4.1 Description of first-aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician. Provide fresh air.

Following skin contact

Wash with plenty of soap and water.

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray, Alcohol resistant foam, BC-powder, Carbon dioxide (CO₂)

Unsuitable extinguishing media

Water jet

5.2 Special hazards arising from the substance or mixture

Substance or mixture corrosive to metals.

Hazardous combustion products

Nitrogen oxides (NO_x), Carbon monoxide (CO), Carbon dioxide (CO₂)

5.3 Advice for firefighters

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.



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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapors/dust/aerosols/gases.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

6.3 Methods and material for containment and cleaning up

Advices on how to contain a spill

Covering of drains

Advices on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

Appropriate containment techniques

Use of adsorbent materials.

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

Recommendations

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

Use local and general ventilation. Use only in well-ventilated areas. Never add water to this product.

- Handling of incompatible substances or mixtures

Do not mix with acids.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Managing of associated risks

- Corrosive conditions

Store in corrosive resistant container with a resistant inner liner.

Control of the effects

Protect against external exposure, such as

Frost

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- Packaging compatibilities

Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used.

7.3 Specific end use(s)

See section 16 for a general overview.

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/m ³] | STEL [ppm] | STEL [mg/m ³] | Ceiling-C [ppm] | Ceiling-C [mg/m ³] | Notation | Source |
| US | 2-butoxyethanol | 111-76-2 | PEL | 50 | 240 | | | | | | 29 CFR 1910.1000 |
| US | methyl alcohol | 67-56-1 | PEL | 200 | 260 | | | | | | 29 CFR 1910.1000 |

Notation

Ceiling-C
STEL

ceiling value is a limit value above which exposure should not occur
short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (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)

| Relevant DNELs of components of the mixture | | | | | | |
|---|------------|-----------|------------------------|------------------------------------|-------------------|----------------------------|
| Name of substance | CAS No | End-point | Threshold level | Protection goal, route of exposure | Used in | Exposure time |
| Alcohols, C9-11 ethoxylated | 68439-46-3 | DNEL | 2,080 mg/kg | human, dermal | worker (industry) | chronic - systemic effects |
| Alcohols, C9-11 ethoxylated | 68439-46-3 | DNEL | 294 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| 2-butoxy-1-ethanol | 111-76-2 | DNEL | 75 mg/kg | human, dermal | worker (industry) | chronic - systemic effects |
| 2-butoxy-1-ethanol | 111-76-2 | DNEL | 98 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| potassium hydroxide | 1310-58-3 | DNEL | 1 mg/m ³ | human, inhalatory | worker (industry) | chronic - local effects |
| sodium metasilicate, anhydrous | 6834-92-0 | DNEL | 6.22 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| sodium metasilicate, anhydrous | 6834-92-0 | DNEL | 1.49 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |
| methanol | 67-56-1 | DNEL | 260 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| methanol | 67-56-1 | DNEL | 260 mg/m ³ | human, inhalatory | worker (industry) | acute - systemic effects |



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| Relevant DNELs of components of the mixture | | | | | | |
|---|---------|-----------|-----------------------|------------------------------------|-------------------|----------------------------|
| Name of substance | CAS No | End-point | Threshold level | Protection goal, route of exposure | Used in | Exposure time |
| methanol | 67-56-1 | DNEL | 260 mg/m ³ | human, inhalatory | worker (industry) | chronic - local effects |
| methanol | 67-56-1 | DNEL | 260 mg/m ³ | human, inhalatory | worker (industry) | acute - local effects |
| methanol | 67-56-1 | DNEL | 40 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |
| methanol | 67-56-1 | DNEL | 40 mg/kg bw/day | human, dermal | worker (industry) | acute - systemic effects |

| Relevant PNECs of components of the mixture | | | | | | |
|---|------------|-----------|-----------------|-----------------------|------------------------------|------------------------------|
| Name of substance | CAS No | End-point | Threshold level | Organism | Environmental compartment | Exposure time |
| Alcohols, C9-11 ethoxylated | 68439-46-3 | PNEC | 0.1038 mg/l | aquatic organisms | freshwater | short-term (single instance) |
| Alcohols, C9-11 ethoxylated | 68439-46-3 | PNEC | 0.1038 mg/l | aquatic organisms | marine water | short-term (single instance) |
| Alcohols, C9-11 ethoxylated | 68439-46-3 | PNEC | 1.4 mg/l | microorganisms | sewage treatment plant (STP) | short-term (single instance) |
| Alcohols, C9-11 ethoxylated | 68439-46-3 | PNEC | 13.7 mg/kg | benthic organisms | sediment | short-term (single instance) |
| Alcohols, C9-11 ethoxylated | 68439-46-3 | PNEC | 13.7 mg/kg | pelagic organisms | sediment | short-term (single instance) |
| Alcohols, C9-11 ethoxylated | 68439-46-3 | PNEC | 1 mg/kg | terrestrial organisms | soil | short-term (single instance) |
| Alcohols, C9-11 ethoxylated | 68439-46-3 | PNEC | 0.014 mg/l | aquatic organisms | water | intermittent release |
| 2-butoxy-1-ethanol | 111-76-2 | PNEC | 8.8 mg/l | aquatic organisms | freshwater | short-term (single instance) |
| 2-butoxy-1-ethanol | 111-76-2 | PNEC | 0.88 mg/l | aquatic organisms | marine water | short-term (single instance) |
| 2-butoxy-1-ethanol | 111-76-2 | PNEC | 463 mg/l | microorganisms | sewage treatment plant (STP) | short-term (single instance) |
| 2-butoxy-1-ethanol | 111-76-2 | PNEC | 34.6 mg/kg | benthic organisms | sediment | short-term (single instance) |
| 2-butoxy-1-ethanol | 111-76-2 | PNEC | 3.13 mg/kg | terrestrial organisms | soil | short-term (single instance) |
| 2-butoxy-1-ethanol | 111-76-2 | PNEC | 9.1 mg/l | aquatic organisms | water | intermittent release |
| methanol | 67-56-1 | PNEC | 100 mg/l | microorganisms | sewage treatment plant (STP) | short-term (single instance) |
| methanol | 67-56-1 | PNEC | 77 mg/kg | benthic organisms | sediment | short-term (single instance) |
| methanol | 67-56-1 | PNEC | 7.7 mg/kg | pelagic organisms | sediment | short-term (single instance) |

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| Relevant PNECs of components of the mixture | | | | | | |
|---|---------|-----------|-----------------|-----------------------|------------------------------|------------------------------|
| Name of substance | CAS No | End-point | Threshold level | Organism | Environmental compartment | Exposure time |
| methanol | 67-56-1 | PNEC | 1,540 mg/l | aquatic organisms | water | intermittent release |
| methanol | 67-56-1 | PNEC | 20.8 mg/l | aquatic organisms | freshwater | short-term (single instance) |
| methanol | 67-56-1 | PNEC | 2.08 mg/l | aquatic organisms | marine water | short-term (single instance) |
| methanol | 67-56-1 | PNEC | 100 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| methanol | 67-56-1 | PNEC | 77 mg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |
| methanol | 67-56-1 | PNEC | 7.7 mg/kg | aquatic organisms | marine sediment | short-term (single instance) |
| methanol | 67-56-1 | PNEC | 100 mg/kg | terrestrial organisms | soil | short-term (single instance) |

8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

Skin protection

- Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. 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.

- Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls

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



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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

| | |
|----------------|--------|
| Physical state | liquid |
| Color | yellow |
| Odor | citrus |

Other safety parameters

| | |
|---|--|
| pH (value) | >14 (25 °C) (base) |
| Melting point/freezing point | not determined |
| Initial boiling point and boiling range | 90 °C |
| Flash point | >100 °C at 101.3 kPa |
| Evaporation rate | not determined |
| Flammability (solid, gas) | not relevant, (fluid) |
| Explosive limits | not determined |
| Vapor pressure | 31.69 hPa at 25 °C |
| Density | 1 – 1.1 g/cm ³ 8.8 lbs/US Gal |
| Vapor density | this information is not available |

Solubility(ies)

| | |
|--------------------|----------------------------|
| - Water solubility | miscible in any proportion |
|--------------------|----------------------------|

Partition coefficient

| | |
|-----------------------------|-----------------------------------|
| - n-octanol/water (log KOW) | this information is not available |
|-----------------------------|-----------------------------------|

| | |
|---------------------------|----------------|
| Auto-ignition temperature | 230 °C |
| Viscosity | not determined |
| Explosive properties | none |
| Oxidizing properties | none |

9.2 Other information

| | |
|--|--|
| Temperature class (USA, acc. to NEC 500) | T2D (maximum permissible surface temperature on the equipment: 215 °C) |
|--|--|



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SECTION 10: Stability and reactivity

10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". Substance or mixture corrosive to metals.

10.2 Chemical stability

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

10.5 Incompatible materials

Oxidizers

Release of flammable materials with:

Light metals (due to the release of hydrogen in an acid/alkaline medium)

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

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Acute toxicity

Shall not be classified as acutely toxic.

| Acute toxicity estimate (ATE) of components of the mixture | | | |
|--|------------|-----------------------|--------------|
| Name of substance | CAS No | Exposure route | ATE |
| Alcohols, C9-11 ethoxylated | 68439-46-3 | oral | 1,200 mg/kg |
| Alcohols, C9-11 ethoxylated | 68439-46-3 | dermal | 2,000 mg/kg |
| 2-butoxy-1-ethanol | 111-76-2 | oral | 1,746 mg/kg |
| 2-butoxy-1-ethanol | 111-76-2 | dermal | 1,100 mg/kg |
| 2-butoxy-1-ethanol | 111-76-2 | inhalation: vapor | 11 mg/l/4h |
| potassium hydroxide | 1310-58-3 | oral | 333 mg/kg |
| sodium metasilicate, anhydrous | 6834-92-0 | oral | 1,349 mg/kg |
| sodium metasilicate, anhydrous | 6834-92-0 | inhalation: vapor | 2.06 mg/l/4h |
| sodium metasilicate, anhydrous | 6834-92-0 | inhalation: dust/mist | 0.5 mg/l/4h |
| methanol | 67-56-1 | oral | 100 mg/kg |



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| Acute toxicity estimate (ATE) of components of the mixture | | | |
|--|---------|-------------------|-----------|
| Name of substance | CAS No | Exposure route | ATE |
| methanol | 67-56-1 | dermal | 300 mg/kg |
| methanol | 67-56-1 | inhalation: vapor | 3 mg/l/4h |

Skin corrosion/irritation

Causes severe skin burns and eye damage.

Serious eye damage/eye irritation

Causes serious eye damage.

Respiratory or skin sensitization

Shall not be classified as a respiratory or skin sensitizer.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

| IARC Monographs on the Evaluation of Carcinogenic Risks to Humans | | | |
|---|----------|----------------|--------|
| Name of substance | CAS No | Classification | Number |
| 2-butoxy-1-ethanol | 111-76-2 | 3 | |

Legend

3 Not classifiable as to carcinogenicity in humans

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

SECTION 12: Ecological information

12.1 Toxicity

Toxic to aquatic life with long lasting effects.

| Aquatic toxicity (acute) of components of the mixture | | | | | |
|---|------------|----------|----------|----------------|---------------|
| Name of substance | CAS No | Endpoint | Value | Species | Exposure time |
| Alcohols, C9-11 ethoxylated | 68439-46-3 | LC50 | 8.5 mg/l | fathead minnow | 96 h |
| Alcohols, C9-11 ethoxylated | 68439-46-3 | EC50 | 5.3 mg/l | daphnia magna | 48 h |



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| Aquatic toxicity (acute) of components of the mixture | | | | | |
|---|------------|----------|----------------|-----------------------|---------------|
| Name of substance | CAS No | Endpoint | Value | Species | Exposure time |
| Alcohols, C9-11 ethoxylated | 68439-46-3 | ErC50 | 1 – 10 mg/l | algae | 96 h |
| 2-butoxy-1-ethanol | 111-76-2 | LC50 | 1,474 mg/l | fish | 96 h |
| 2-butoxy-1-ethanol | 111-76-2 | EC50 | 1,550 mg/l | aquatic invertebrates | 48 h |
| 2-butoxy-1-ethanol | 111-76-2 | ErC50 | 1,840 mg/l | algae | 72 h |
| sodium metasilicate, anhydrous | 6834-92-0 | LC50 | 310 mg/l | fish | 96 h |
| sodium metasilicate, anhydrous | 6834-92-0 | EC50 | 1,700 mg/l | aquatic invertebrates | 48 h |
| disodium cocoamphodipropionate | 68604-71-7 | LC50 | 1 – 100 mg/l | fish | 72 h |
| disodium cocoamphodipropionate | 68604-71-7 | EC50 | 0.55 – 48 mg/l | algae | 72 h |
| disodium cocoamphodipropionate | 68604-71-7 | EC50 | 6.5 mg/l | daphnia | 48 h |
| methanol | 67-56-1 | LC50 | 15,400 mg/l | fish | 96 h |
| methanol | 67-56-1 | EC50 | 12,700 mg/l | fish | 96 h |
| methanol | 67-56-1 | ErC50 | 22,000 mg/l | algae | 96 h |

| Aquatic toxicity (chronic) of components of the mixture | | | | | |
|---|-----------|----------|-----------|-----------------------|---------------|
| Name of substance | CAS No | Endpoint | Value | Species | Exposure time |
| 2-butoxy-1-ethanol | 111-76-2 | EC50 | 297 mg/l | aquatic invertebrates | 21 d |
| sodium metasilicate, anhydrous | 6834-92-0 | EC50 | >100 mg/l | microorganisms | 3 h |

12.2 Persistence and degradability

Data are not available.

12.3 Bioaccumulative potential

Data are not available.

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Data are not available.

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12.6 Other adverse effects

Endocrine disrupting potential
None of the ingredients are listed.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packages

Only packagings which are approved (e.g. acc. to DOT) may be used. 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. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECTION 14: Transport information

| | |
|--|--|
| 14.1 UN number | 3266 |
| 14.2 UN proper shipping name | Corrosive liquid, basic, inorganic, n.o.s. |
| 14.3 Transport hazard class(es) | |
| Class | 8 (corrosive substances) |
| 14.4 Packing group | III (substance presenting low danger) |
| 14.5 Environmental hazards | hazardous to the aquatic environment |
| Environmentally hazardous substance (aquatic environment) | Alcohols, C9-11 ethoxylated |
| 14.6 Special precautions for user | |
| There is no additional information. | |
| 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code | |
| The cargo is not intended to be carried in bulk. | |

Information for each of the UN Model Regulations

Transport of dangerous goods by road or rail (49 CFR US DOT)

| | |
|--|---|
| Index number | 3266 |
| Proper shipping name | Corrosive liquid, basic, inorganic, n.o.s. |
| - Particulars in the shipper's declaration | UN3266, Corrosive liquid, basic, inorganic, n.o.s., 8, III, environmentally hazardous |
| - Reportable quantity (RQ) | 48,840 lbs (22,173 kg) (potassium hydroxide) (methanol) |
| Class | 8 |
| Packing group | III |
| Danger label(s) | 8, fish and tree |







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| | |
|---|--|
| Environmental hazards | yes (hazardous to the aquatic environment) |
| Special provisions (SP) | IB3, T7, TP1, TP28 |
| ERG No | 154 |
| International Maritime Dangerous Goods Code (IMDG) | |
| UN number | 3266 |
| Proper shipping name | CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. |
| Class | 8 |
| Marine pollutant | yes (hazardous to the aquatic environment) |
| Packing group | III |
| Danger label(s) | 8, fish and tree |
|  | |
| Special provisions (SP) | 223, 274 |
| Excepted quantities (EQ) | E1 |
| Limited quantities (LQ) | 5 L |
| EmS | F-A, S-B |
| Stowage category | A |
| Segregation group | 18 - Alkalis |
| International Civil Aviation Organization (ICAO-IATA/DGR) | |
| UN number | 3266 |
| Proper shipping name | Corrosive liquid, basic, inorganic, n.o.s. |
| Class | 8 |
| Environmental hazards | yes (hazardous to the aquatic environment) |
| Packing group | III |
| Danger label(s) | 8 |
|  | |
| Special provisions (SP) | A3 |
| Excepted quantities (EQ) | E1 |
| Limited quantities (LQ) | 1 L |

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

National regulations (United States)

15.1.5 Toxic Substance Control Act (TSCA) all ingredients are listed
0.1

Superfund Amendment and Reauthorization Act (SARA TITLE III)

- The List of Extremely Hazardous Substances and Their Threshold Planning Quantities (EPCRA Section 302, 304)
none of the ingredients are listed



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- Specific Toxic Chemical Listings (EPCRA Section 313)

| Toxics Release Inventory: Specific Toxic Chemical Listings | | | |
|--|---------|---------|----------------|
| Name acc. to inventory | CAS No | Remarks | Effective date |
| methanol | 67-56-1 | | 1986-12-31 |

Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)

- List of Hazardous Substances and Reportable Quantities (CERCLA section 102a) (40 CFR 302.4)

| Name of substance | CAS No | Remarks | Statutory code | Final RQ pounds (Kg) |
|---------------------|-----------|---------|----------------|----------------------|
| methanol | 67-56-1 | | 3 4 | 5000 (2270) |
| potassium hydroxide | 1310-58-3 | | 1 | 1000 (454) |

Legend

- 1 "1" indicates that the statutory source is section 311(b)(2) of the Clean Water Act
- 3 "3" indicates that the source is section 112 of the Clean Air Act
- 4 "4" indicates that the source is section 3001 of the Resource Conservation and Recovery Act (RCRA)

Clean Air Act

none of the ingredients are listed

15.1.5 New Jersey Worker and Community Right to Know Act

0.5

| Right to Know Hazardous Substance List | | | |
|--|-----------|---------|-----------------|
| Name acc. to inventory | CAS No | Remarks | Classifications |
| methyl alcohol | 67-56-1 | | TE F3 |
| 2-BUTOXY ETHANOL (ETHANOL, 2-BUT-OXY-, BUTYL CELLOSOLVE) | 111-76-2 | | CA F2 |
| potassium hydroxide | 1310-58-3 | | CO R1 |

Legend

- CA Carcinogenic
- CO Corrosive
- F2 Flammable - Second Degree
- F3 Flammable - Third Degree
- R1 Reactive - First Degree
- TE Teratogenic

15.1.5 California Environmental Protection Agency (Cal/EPA): Proposition 65 - Safe Drinking Water and Toxic Enforcement Act of 1987

0.6

| Proposition 65 List of chemicals | | | | |
|----------------------------------|---------|-----------|---------|----------------------|
| Name acc. to inventory | CAS No | Conc. | Remarks | Type of the toxicity |
| methanol | 67-56-1 | 0.114 wt% | | developmental |



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Industry or sector specific available guidance(s)

NPCA-HMIS® III

Hazardous Materials Identification System. American Coatings Association.

| Category | Rating | Description |
|---------------------|--------|--|
| Chronic | / | none |
| Health | 3 | major injury likely unless prompt action is taken and medical treatment is given |
| Flammability | 1 | material that must be preheated before ignition can occur |
| Physical hazard | 0 | material that is normally stable, even under fire conditions, and will not react with water, polymerize, decompose, condense, or self-react. Non-explosive |
| Personal protection | - | |

Chronic: chronic hazard
Flammability: flammability hazard
Health: health hazard
Personal protection: personal protective equipment (PPE) for normal use
Physical hazard: reactivity

NFPA® 704

National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States).

| Category | Degree of hazard | Description |
|----------------|------------------|--|
| Flammability | 1 | material that must be preheated before ignition can occur |
| Health | 3 | material that, under emergency conditions, can cause serious or permanent injury |
| Instability | 0 | material that is normally stable, even under fire conditions |
| Special hazard | | |

National inventories

| Country | Inventory | Status |
|---------|------------|--------------------------------|
| CA | DSL | all ingredients are listed |
| EU | REACH Reg. | not all ingredients are listed |
| US | TSCA | all ingredients are listed |

Legend

DSL Domestic Substances List (DSL)
REACH Reg. REACH registered substances
TSCA Toxic Substance Control Act

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.



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SECTION 16: Other information, including date of preparation or last revision

Indication of changes (revised safety data sheet)

| Section | Former entry (text/value) | Actual entry (text/value) | Safety-relevant |
|---------|--|--|-----------------|
| 1.2 | | Uses advised against: Do not use for squirting or spraying. Do not use for products which come into direct contact with the skin. | yes |
| 1.3 | Details of the supplier of the safety data sheet: B&B Blending, LLC 10963 Leroy Drive Northglenn CO 80233 United States Telephone: 1.800.875.6320, 1.303.289.6320 Telefax e-mail: info@bbblending.com Website: bbblending.com | Details of the supplier of the safety data sheet: B&B Blending, LLC 10963 Leroy Drive Northglenn CO 80233 United States Telephone: 1.800.875.6320, 1.303.289.6320 e-mail: info@bbblending.com Website: bbblending.com | yes |
| 1.3 | Competent person responsible for the SDS: Robert Blahnik | | yes |
| 1.3 | e-mail (competent person): bblahnik@bbblending.com | | yes |
| 1.3 | | e-mail (competent person): btirrell@bbblending.com | yes |
| 1.4 | Emergency information service: USA 1.800.535.5053, INTL 1.352.323.3500 24 hour emergency telephone number. | Emergency information service: USA 1.800.535.5053, INTL 1.352.323.3500 24 hr emergency information | yes |
| 2.1 | Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200): Annex - Hazard class and category - Hazard statement code(s) | Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200) | yes |
| 2.1 | | Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200): change in the listing (table) | yes |
| 2.1 | Remarks: For full text of H-phrases: see SECTION 16. | | yes |
| 2.1 | Hazards not otherwise classified | | yes |
| 2.1 | | Hazards not otherwise classified: change in the listing (table) | yes |
| 2.1 | | The most important adverse physicochemical, human health and environmental effects: Skin corrosion produces an irreversible damage to the skin; namely, visible necrosis through the epidermis and into the dermis. | yes |
| 2.2 | | Pictograms: change in the listing (table) | yes |
| 2.2 | Hazard statements | | yes |
| 2.2 | | - Pictograms: change in the listing (table) | yes |
| 2.2 | | - Hazard statements: change in the listing (table) | yes |
| 2.2 | Precautionary statements | | yes |



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|---------|--|--|-----------------|
| 2.2 | Precautionary statements - prevention | | yes |
| 2.2 | | Precautionary statements - prevention: change in the listing (table) | yes |
| 2.2 | Precautionary statements - response | | yes |
| 2.2 | | Precautionary statements - response: change in the listing (table) | yes |
| 2.2 | Precautionary statements - storage | | yes |
| 2.2 | | Precautionary statements - storage: change in the listing (table) | yes |
| 2.2 | | - Precautionary statements: change in the listing (table) | yes |
| 2.2 | | - Hazardous ingredients for labelling: Alcohols, C9-11 ethoxylated, potassium hydroxide | yes |
| 2.3 | Other hazards: There is no additional information. | Other hazards | yes |
| 2.3 | | Hazards not otherwise classified | yes |
| 2.3 | | Hazards not otherwise classified: change in the listing (table) | yes |
| 2.3 | | Results of PBT and vPvB assessment: This mixture does not contain any substances that are assessed to be a PBT or a vPvB. | yes |
| 3.2 | | Description of the mixture: change in the listing (table) | yes |
| 3.2 | | Hazardous ingredients acc. to GHS: change in the listing (table) | yes |
| 4.1 | Following inhalation: In case of respiratory tract irritation, consult a physi- cian. Provide fresh air. | Following inhalation: If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physi- cian. Provide fresh air. | yes |
| 4.1 | Following skin contact: After contact with skin, take off immediately all con- taminated clothing, and wash immediately with plenty of water. | Following skin contact: Wash with plenty of soap and water. | yes |
| 4.1 | Following eye contact: Irrigate copiously with clean, fresh water, holding the eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. | Following eye contact: Remove contact lenses, if present and easy to do. Continue rinsing. | yes |
| 6.2 | Environmental precautions: Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. | Environmental precautions: Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sew- er, inform the responsible authority. | yes |
| 6.4 | Reference to other sections: Hazardous combustion products: see section 5. Per- sonal precautions: see section 8. Incompatible ma- terials: see section 10. Disposal considerations: see section 13. | Reference to other sections: Hazardous combustion products: see section 5. Personal protective equipment: see section 8. In- compatible materials: see section 10. Disposal con- siderations: see section 13. | yes |
| 7.2 | Incompatible substances or mixtures: Observe compatible storage of chemicals. | | yes |



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| Section | Former entry (text/value) | Actual entry (text/value) | Safety-relevant |
|---------|--|--|-----------------|
| 7.2 | Consideration of other advice | | yes |
| 7.2 | Packaging compatibilities: Only packagings which are approved (e.g. acc. to DOT) may be used. | - Packaging compatibilities: Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used. | yes |
| 8.1 | National limit values | | yes |
| 8.1 | Occupational exposure limit values (Workplace Exposure Limits) | | yes |
| 8.1 | | Occupational exposure limit values (Workplace Exposure Limits): change in the listing (table) | yes |
| 8.1 | Relevant DNELs/DMELs/PNECs and other threshold levels: No data available. | | yes |
| 8.1 | | Relevant DNELs of components of the mixture: change in the listing (table) | yes |
| 8.1 | | Relevant PNECs of components of the mixture: change in the listing (table) | yes |
| 9.1 | Odor: citrus | | yes |
| 9.1 | | Odor: citrus | yes |
| 9.1 | Initial boiling point and boiling range: 100 °C | Initial boiling point and boiling range: 90 °C | yes |
| 9.1 | Flash point: >100 °C at 101.3 kPa (closed cup) | Flash point: >100 °C at 101.3 kPa | yes |
| 9.1 | | Vapor density: this information is not available | yes |
| 9.2 | | Other information | yes |
| 9.2 | | Temperature class (USA, acc. to NEC 500): T2D (maximum permissible surface temperature on the equipment: 215 °C) | yes |
| 10.4 | Physical stresses which might result in a hazardous situation and have to be avoided: strong shocks | | yes |
| 10.5 | Incompatible materials: There is no additional information. | Incompatible materials: Oxidizers | yes |
| 11.1 | Acute toxicity of components of the mixture | | yes |
| 11.1 | | Acute toxicity estimate (ATE) of components of the mixture: change in the listing (table) | yes |
| 11.1 | Skin corrosion/irritation: Causes skin irritation. | Skin corrosion/irritation: Causes severe skin burns and eye damage. | yes |
| 11.1 | Summary of evaluation of the CMR properties: Shall not be classified as germ cell mutagenic, carcinogenic nor as a reproductive toxicant. | | yes |
| 11.1 | Carcinogenicity | | yes |



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| Section | Former entry (text/value) | Actual entry (text/value) | Safety-relevant |
|---------|--|---|-----------------|
| 11.1 | • National Toxicology Program (United States): none of the ingredients are listed | | yes |
| 11.1 | • IARC Monographs | | yes |
| 11.1 | Specific target organ toxicity (STOT): Shall not be classified as a specific target organ toxicant. | | yes |
| 11.1 | | Germ cell mutagenicity: Shall not be classified as germ cell mutagenic. | yes |
| 11.1 | | Carcinogenicity: Shall not be classified as carcinogenic. | yes |
| 11.1 | | IARC Monographs on the Evaluation of Carcinogenic Risks to Humans: change in the listing (table) | yes |
| 11.1 | | Reproductive toxicity: Shall not be classified as a reproductive toxicant. | yes |
| 11.1 | | Specific target organ toxicity - single exposure: Shall not be classified as a specific target organ toxicant (single exposure). | yes |
| 11.1 | | Specific target organ toxicity - repeated exposure: Shall not be classified as a specific target organ toxicant (repeated exposure). | yes |
| 12.1 | Toxicity: Harmful to aquatic life with long lasting effects. | Toxicity: Toxic to aquatic life with long lasting effects. | yes |
| 12.1 | Aquatic toxicity (acute): Shall not be classified as hazardous to the aquatic environment. | | yes |
| 12.1 | Aquatic toxicity (acute) of components of the mixture | | yes |
| 12.1 | Aquatic toxicity (chronic) | | yes |
| 12.1 | Aquatic toxicity (chronic) of components of the mixture | | yes |
| 12.2 | Degradability of components of the mixture | | yes |
| 12.2 | | Degradability of components of the mixture: change in the listing (table) | yes |
| 12.3 | Bioaccumulative potential of components of the mixture | | yes |
| 12.3 | | Bioaccumulative potential of components of the mixture: change in the listing (table) | yes |
| 12.1 | | Aquatic toxicity (acute) of components of the mixture: change in the listing (table) | yes |
| 12.1 | | Aquatic toxicity (chronic) of components of the mixture: change in the listing (table) | yes |
| 12.6 | Other adverse effects: Data are not available. | Other adverse effects | yes |
| 12.6 | | Endocrine disrupting potential: None of the ingredients are listed. | yes |



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| Section | Former entry (text/value) | Actual entry (text/value) | Safety-relevant |
|---------|--|--|-----------------|
| 13.1 | Waste treatment of containers/packages: Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself. | Waste treatment of containers/packages: Only packagings which are approved (e.g. acc. to DOT) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself. | yes |
| 14.1 | UN number: not required | UN number: 3266 | yes |
| 14.2 | UN proper shipping name: not relevant | UN proper shipping name: Corrosive liquid, basic, inorganic, n.o.s. | yes |
| 14.3 | Class: - | Class: 8 (corrosive substances) | yes |
| 14.4 | Packing group: not relevant | Packing group: III (substance presenting low danger) | yes |
| 14.5 | Environmental hazards: none (non-environmentally hazardous acc. to the dangerous goods regulations) | Environmental hazards: hazardous to the aquatic environment | yes |
| 14.5 | | Environmentally hazardous substance (aquatic environment): Alcohols, C9-11 ethoxylated | yes |
| 14.7 | | Information for each of the UN Model Regulations | yes |
| 14.7 | | Transport of dangerous goods by road or rail (49 CFR US DOT) | yes |
| 14.7 | | Index number: 3266 | yes |
| 14.7 | | Proper shipping name: Corrosive liquid, basic, inorganic, n.o.s. | yes |
| 14.7 | | Particulars in the shipper's declaration: UN3266, Corrosive liquid, basic, inorganic, n.o.s., 8, III, environmentally hazardous | yes |
| 14.7 | | Reportable quantity (RQ): 48,840 lbs (22,173 kg) (potassium hydroxide) (methanol) | yes |
| 14.7 | | Class: 8 | yes |
| 14.7 | | Packing group: III | yes |
| 14.7 | | Danger label(s): 8, fish and tree | yes |
| 14.7 | | Danger label(s): change in the listing (table) | yes |
| 14.7 | | Environmental hazards: yes (hazardous to the aquatic environment) | yes |
| 14.7 | | Special provisions (SP): IB3, T7, TP1, TP28 | yes |
| 14.7 | | ERG No: 154 | yes |
| 14.7 | | International Maritime Dangerous Goods Code (IM-DG) | yes |



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| Section | Former entry (text/value) | Actual entry (text/value) | Safety-relevant |
|---------|---------------------------|--|-----------------|
| 14.7 | | UN number: 3266 | yes |
| 14.7 | | Proper shipping name: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. | yes |
| 14.7 | | Class: 8 | yes |
| 14.7 | | Marine pollutant: yes (hazardous to the aquatic environment) | yes |
| 14.7 | | Packing group: III | yes |
| 14.7 | | Danger label(s): 8, fish and tree | yes |
| 14.7 | | Danger label(s): change in the listing (table) | yes |
| 14.7 | | Special provisions (SP): 223, 274 | yes |
| 14.7 | | Excepted quantities (EQ): E1 | yes |
| 14.7 | | Limited quantities (LQ): 5 L | yes |
| 14.7 | | EmS: F-A, S-B | yes |
| 14.7 | | Stowage category: A | yes |
| 14.7 | | Segregation group: 18 - Alkalis | yes |
| 14.7 | | International Civil Aviation Organization (ICAO- IATA/DGR) | yes |
| 14.7 | | UN number: 3266 | yes |
| 14.7 | | Proper shipping name: Corrosive liquid, basic, inorganic, n.o.s. | yes |
| 14.7 | | Class: 8 | yes |
| 14.7 | | Environmental hazards: yes (hazardous to the aquatic environment) | yes |
| 14.7 | | Packing group: III | yes |
| 14.7 | | Danger label(s): 8 | yes |
| 14.7 | | Danger label(s): change in the listing (table) | yes |
| 14.7 | | Special provisions (SP): A3 | yes |
| 14.7 | | Excepted quantities (EQ): E1 | yes |



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| Section | Former entry (text/value) | Actual entry (text/value) | Safety-relevant |
|-----------|---|--|-----------------|
| 14.7 | | Limited quantities (LQ): 1 L | yes |
| 15.1 | National regulations (United States) | | yes |
| 15.1 | Toxic Substance Control Act (TSCA): all ingredients are listed or exempt from listing | | yes |
| 15.1 | SARA TITLE III (Superfund Amendment and Reauthorization Act) | | yes |
| 15.1 | List of Extremely Hazardous Substances (40 CFR 355) (EPCRA Section 302 and 304): none of the ingredients are listed | | yes |
| 15.1 | Specific Toxic Chemical Listings (40 CFR 372) (EPCRA Section 313): none of the ingredients are listed | | yes |
| 15.1 | Industry or sector specific available guidance(s) | | yes |
| 15.1 | NPCA-HMIS® III: Hazardous Materials Identification System (American Coatings Association) | | yes |
| 15.1 | | NPCA-HMIS® III: change in the listing (table) | yes |
| 15.1 | NFPA® 704: National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States) | | yes |
| 15.1 | | NFPA® 704: change in the listing (table) | yes |
| 15.1 | Right to Know Hazardous Substance List | | yes |
| 15.1 | | Right to Know Hazardous Substance List: change in the listing (table) | yes |
| 15.1 | Proposition 65 List of chemicals: none of the ingredients are listed | | yes |
| 15.1 | Relevant European Union (EU) safety, health and environmental provisions | | yes |
| 15.1 | Classification according to GHS (1272/2008/EC, CLP) | | yes |
| 15.1 | | Classification according to GHS (1272/2008/EC, CLP): change in the listing (table) | yes |
| 15.1 | | National regulations (United States) | yes |
| 15.1.50.1 | | Toxic Substance Control Act (TSCA): all ingredients are listed | yes |
| 15.1.50.1 | | Superfund Amendment and Reauthorization Act (SARA TITLE III) | yes |
| 15.1.50.1 | | The List of Extremely Hazardous Substances and Their Threshold Planning Quantities (EPCRA Section 302, 304): none of the ingredients are listed | yes |
| 15.1.50.1 | | Specific Toxic Chemical Listings (EPCRA Section 313) | yes |



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|-----------|---|--|-----------------|
| 15.1.50.1 | | Toxics Release Inventory: Specific Toxic Chemical Listings: change in the listing (table) | yes |
| 15.1.50.1 | | Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) | yes |
| 15.1.50.1 | | List of Hazardous Substances and Reportable Quantities (CERCLA section 102a) (40 CFR 302.4) | yes |
| 15.1.50.1 | | List of Hazardous Substances and Reportable Quantities (CERCLA section 102a) (40 CFR 302.4): change in the listing (table) | yes |
| 15.1.50.1 | | Clean Air Act: none of the ingredients are listed | yes |
| 15.1.50.5 | | New Jersey Worker and Community Right to Know Act | yes |
| 15.1.50.5 | | Right to Know Hazardous Substance List: change in the listing (table) | yes |
| 15.1.50.6 | | California Environmental Protection Agency (Cal/EPA): Proposition 65 - Safe Drinking Water and Toxic Enforcement Act of 1987 | yes |
| 15.1.50.6 | | Proposition 65 List of chemicals: change in the listing (table) | yes |
| 15.1.50.6 | | Industry or sector specific available guidance(s) | yes |
| 15.1.50.6 | | NPCA-HMIS® III: Hazardous Materials Identification System. American Coatings Association. | yes |
| 15.1.50.6 | | NPCA-HMIS® III: change in the listing (table) | yes |
| 15.1.50.6 | | NFPA® 704: National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States). | yes |
| 15.1.50.6 | | NFPA® 704: change in the listing (table) | yes |
| 15.1.50.6 | | National inventories | yes |
| 15.1.50.6 | | National inventories: change in the listing (table) | yes |
| 15.2 | | Chemical Safety Assessment: Chemical safety assessments for substances in this mixture were not carried out. | yes |
| 16 | Key literature references and sources for data: - OSHA Hazard Communication Standard (HCS), 29 CFR 1910.1200 - 49 CFR § 172.101 Hazardous Materials Table (DOT) | Key literature references and sources for data: OSHA Hazard Communication Standard (HCS), 29 CFR 1910.1200. Transport of dangerous goods by road or rail (49 CFR US DOT). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA). | yes |
| 16 | | List of relevant phrases (code and full text as stated in chapter 2 and 3): change in the listing (table) | yes |

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Abbreviations and acronyms

| Abbr. | Descriptions of used abbreviations |
|------------------|---|
| 29 CFR 1910.1000 | 29 CFR 1910.1000, Tables Z-1, Z-2, Z-3 - Occupational Safety and Health Standards: Toxic and Hazardous Substances (permissible exposure limits) |
| 49 CFR US DOT | 49 CFR § 40 U.S. Department of Transportation |
| Acute Tox. | Acute toxicity |
| ATE | Acute Toxicity Estimate |
| CAS | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances) |
| Ceiling-C | Ceiling value |
| DGR | Dangerous Goods Regulations (see IATA/DGR) |
| DNEL | Derived No-Effect Level |
| DOT | Department of Transportation (USA) |
| EmS | Emergency Schedule |
| ERG No | Emergency Response Guidebook - Number |
| Eye Dam. | Seriously damaging to the eye |
| Eye Irrit. | Irritant to the eye |
| Flam. Liq. | Flammable liquid |
| 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 |
| IMDG | International Maritime Dangerous Goods Code |
| MARPOL | International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant") |
| Met. Corr. | Substance or mixture corrosive to metals |
| NPCA-HMIS® III | National Paint and Coatings Association: Hazardous Materials Identification System - HMIS® III, Third Edition |
| OSHA | Occupational Safety and Health Administration (United States) |
| PBT | Persistent, Bioaccumulative and Toxic |
| PEL | Permissible exposure limit |
| PNEC | Predicted No-Effect Concentration |
| ppm | Parts per million |
| Skin Corr. | Corrosive to skin |
| Skin Irrit. | Irritant to skin |
| STEL | Short-term exposure limit |
| STOT SE | Specific target organ toxicity - single exposure |
| TWA | Time-weighted average |
| vPvB | Very Persistent and very Bioaccumulative |

Key literature references and sources for data



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Revision: 2019-06-17

OSHA Hazard Communication Standard (HCS), 29 CFR 1910.1200.

Transport of dangerous goods by road or rail (49 CFR US DOT). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

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 chapter 2 and 3)

| Code | Text |
|------|--|
| H225 | Highly flammable liquid and vapor. |
| H227 | Combustible liquid. |
| H290 | May be corrosive to metals. |
| H301 | Toxic if swallowed. |
| H302 | Harmful if swallowed. |
| H311 | Toxic in contact with skin. |
| H312 | Harmful in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H320 | Causes eye irritation. |
| H331 | Toxic if inhaled. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H370 | Causes damage to organs. |

Disclaimer

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