

Tunnel Extreme

Version number: GHS 6.0
Replaces version of: 2018-10-11 (GHS 5)

Revision: 2019-06-17

SECTION 1: Identification

1.1 Product identifier

Trade name **Tunnel Extreme**

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

Relevant identified uses Vehicle wash / shampoo

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 | 2 | Skin Irrit. 2 | H315 |
| A.3 | serious eye damage/eye irritation | 2A | Eye Irrit. 2A | H319 |

For full text of abbreviations: see SECTION 16.

2.2 Label elements

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

- Signal word warning

- Pictograms

GHS07



- Hazard statements

H315 Causes skin irritation.
H319 Causes serious eye irritation.



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- Precautionary statements

| | |
|----------------|--|
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P302+P352 | If on skin: Wash with plenty of water. |
| P305+P351+P338 | If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P321 | Specific treatment (see on this label). |
| P332+P313 | If skin irritation occurs: Get medical advice/attention. |
| P337+P313 | If eye irritation persists: Get medical advice/attention. |
| P362 | Take off contaminated clothing and wash it before reuse. |

2.3 Other hazards

Special danger of slipping by leaking/spilling product.

Hazards not otherwise classified

May be harmful if swallowed (GHS category 5: acutely toxic - oral).

Harmful to aquatic life (GHS category 3: aquatic toxicity - acute).

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 |
| sodium dodecylbenzenesulfonate | CAS No 25155-30-0 | 12 - < 20 | Acute Tox. 4 / H302 Skin Irrit. 2 / H315 Eye Irrit. 2A / H319 | |
| cocamidopropylhydroxysulfate | CAS No 68139-30-0 | 1 - < 3 | Eye Irrit. 2A / H319 | |
| ethanol | CAS No 64-17-5 | 0.1 - < 1 | Acute Tox. 3 / H301 Acute Tox. 3 / H311 Acute Tox. 3 / H331 Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Carc. 1A / H350 STOT SE 1 / H370 Flam. Liq. 2 / H225 | * IARC: 1 |
| benzaldehyde | CAS No 100-52-7 | 0.1 - < 1 | Acute Tox. 4 / H302 Acute Tox. 3 / H331 Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 STOT SE 3 / H335 Flam. Liq. 4 / H227 | |

Notes

*: only carcinogenic in alcoholic beverages

IARC: 1: IARC group 1: carcinogenic to humans (International Agency for Research on Cancer)

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

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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

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.

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.

6.3 Methods and material for containment and cleaning up

Advices on how to contain a spill

Covering of drains



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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.

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

Control of the effects

Protect against external exposure, such as

Frost

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 | ethyl alcohol (ethanol) | 64-17-5 | PEL | 1,000 | 1,900 | | | | | | 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)

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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 |
| sodium dodecylbenzenesulfonate | 25155-30-0 | DNEL | 52 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| sodium dodecylbenzenesulfonate | 25155-30-0 | DNEL | 52 mg/m ³ | human, inhalatory | worker (industry) | acute - systemic effects |
| sodium dodecylbenzenesulfonate | 25155-30-0 | DNEL | 52 mg/m ³ | human, inhalatory | worker (industry) | chronic - local effects |
| sodium dodecylbenzenesulfonate | 25155-30-0 | DNEL | 52 mg/m ³ | human, inhalatory | worker (industry) | acute - local effects |
| sodium dodecylbenzenesulfonate | 25155-30-0 | DNEL | 57.2 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |
| sodium dodecylbenzenesulfonate | 25155-30-0 | DNEL | 80 mg/kg bw/day | human, dermal | worker (industry) | acute - systemic effects |
| ethanol | 64-17-5 | DNEL | 1,900 mg/m ³ | human, inhalatory | worker (industry) | acute - local effects |
| ethanol | 64-17-5 | DNEL | 343 mg/kg | human, dermal | worker (industry) | chronic - systemic effects |
| ethanol | 64-17-5 | DNEL | 950 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| benzaldehyde | 100-52-7 | DNEL | 9.8 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| benzaldehyde | 100-52-7 | DNEL | 9.8 mg/m ³ | human, inhalatory | worker (industry) | chronic - local effects |
| benzaldehyde | 100-52-7 | DNEL | 1.14 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |

| Relevant PNECs of components of the mixture | | | | | | |
|---|------------|-----------|-----------------|-----------------------|------------------------------|------------------------------|
| Name of substance | CAS No | End-point | Threshold level | Organism | Environmental compartment | Exposure time |
| sodium dodecylbenzenesulfonate | 25155-30-0 | PNEC | 0.693 mg/l | aquatic organisms | freshwater | short-term (single instance) |
| sodium dodecylbenzenesulfonate | 25155-30-0 | PNEC | 1 mg/l | aquatic organisms | marine water | short-term (single instance) |
| sodium dodecylbenzenesulfonate | 25155-30-0 | PNEC | 50 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| sodium dodecylbenzenesulfonate | 25155-30-0 | PNEC | 27.5 mg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |
| sodium dodecylbenzenesulfonate | 25155-30-0 | PNEC | 2.75 mg/kg | aquatic organisms | marine sediment | short-term (single instance) |
| sodium dodecylbenzenesulfonate | 25155-30-0 | PNEC | 25 mg/kg | terrestrial organisms | soil | short-term (single instance) |
| ethanol | 64-17-5 | PNEC | 0.96 mg/l | aquatic organisms | freshwater | short-term (single instance) |
| ethanol | 64-17-5 | PNEC | 0.79 mg/l | aquatic organisms | marine water | 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 |
| ethanol | 64-17-5 | PNEC | 580 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| ethanol | 64-17-5 | PNEC | 3.6 mg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |
| ethanol | 64-17-5 | PNEC | 0.63 mg/kg | terrestrial organisms | soil | short-term (single instance) |
| ethanol | 64-17-5 | PNEC | 2.75 mg/l | aquatic organisms | water | intermittent release |
| benzaldehyde | 100-52-7 | PNEC | 0.002 mg/l | aquatic organisms | freshwater | short-term (single instance) |
| benzaldehyde | 100-52-7 | PNEC | 0 mg/l | aquatic organisms | marine water | short-term (single instance) |
| benzaldehyde | 100-52-7 | PNEC | 7.59 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| benzaldehyde | 100-52-7 | PNEC | 0.022 mg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |
| benzaldehyde | 100-52-7 | PNEC | 0.002 mg/kg | aquatic organisms | marine sediment | short-term (single instance) |
| benzaldehyde | 100-52-7 | PNEC | 0.003 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 (viscous) |
| Color | dark red |
| Odor | fruity |

Other safety parameters

| | |
|---|--|
| pH (value) | 8 – 9 (25 °C) |
| Melting point/freezing point | not determined |
| Initial boiling point and boiling range | 100 °C |
| Flash point | not determined |
| Evaporation rate | not determined |
| Flammability (solid, gas) | not relevant, (fluid) |
| Explosive limits | not determined |
| Vapor pressure | 31.69 hPa at 25 °C |
| Density | 1.03 – 1.04 g/cm ³ 8.6 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 | not determined |
| Viscosity | not determined |
| Explosive properties | none |
| Oxidizing properties | none |

9.2 Other information

there is no additional information

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SECTION 10: Stability and reactivity

10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

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

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.

GHS of the United Nations, annex 4: May be harmful if swallowed.

Acute toxicity estimate (ATE) of components of the mixture

| Name of substance | CAS No | Exposure route | ATE |
|--------------------------------|------------|-------------------|-------------|
| sodium dodecylbenzenesulfonate | 25155-30-0 | oral | 650 mg/kg |
| ethanol | 64-17-5 | oral | 100 mg/kg |
| ethanol | 64-17-5 | dermal | 300 mg/kg |
| ethanol | 64-17-5 | inhalation: vapor | 3 mg/l/4h |
| benzaldehyde | 100-52-7 | oral | 1,430 mg/kg |
| benzaldehyde | 100-52-7 | inhalation: vapor | 5 mg/l/4h |

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitization

Shall not be classified as a respiratory or skin sensitizer.



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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 |
|-------------------|---------|----------------|--------|
| ethanol | 64-17-5 | 1 | |

Legend

1 Carcinogenic to 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

Harmful to aquatic life.

| Aquatic toxicity (acute) of components of the mixture | | | | | |
|---|------------|----------|--------------|-----------------------|---------------|
| Name of substance | CAS No | Endpoint | Value | Species | Exposure time |
| sodium dodecylbenzenesulfonate | 25155-30-0 | LC50 | 7.16 mg/l | fish | 96 h |
| sodium dodecylbenzenesulfonate | 25155-30-0 | EC50 | 6.3 mg/l | aquatic invertebrates | 48 h |
| cocamidopropylhydroxysultaine | 68139-30-0 | LC50 | 1.7 - 2 mg/l | algae | 72 h |
| cocamidopropylhydroxysultaine | 68139-30-0 | LC50 | 1.7 - 2 mg/l | daphnia | 48 h |
| cocamidopropylhydroxysultaine | 68139-30-0 | LC50 | 1.7 - 2 mg/l | fish | 96 h |
| ethanol | 64-17-5 | LC50 | 14.2 g/l | fish | 96 h |
| ethanol | 64-17-5 | EC50 | 12.9 g/l | fish | 96 h |
| benzaldehyde | 100-52-7 | LC50 | 12.4 mg/l | fish | 96 h |

12.2 Persistence and degradability

Data are not available.



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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.

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

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 | not subject to transport regulations |
| 14.2 | UN proper shipping name | not assigned |
| 14.3 | Transport hazard class(es) | not assigned |
| 14.4 | Packing group | not assigned |
| 14.5 | Environmental hazards | non-environmentally hazardous acc. to the dangerous goods regulations |
| 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)

Not subject to transport regulations.

International Maritime Dangerous Goods Code (IMDG)

Not subject to IMDG.

International Civil Aviation Organization (ICAO-IATA/DGR)

Not subject to ICAO-IATA.



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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

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) |
|--------------------------------|------------|---------|----------------|----------------------|
| sodium dodecylbenzenesulfonate | 25155-30-0 | | 1 | 1000 (454) |

Legend

1 "1" indicates that the statutory source is section 311(b)(2) of the Clean Water Act

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 |
| SODIUM DODECYLBENZENE SULFONATE (BENZENESULFONIC ACID, DODECYL-, SODIUM SALT) | 25155-30-0 | | |
| ethyl alcohol | 64-17-5 | | CA MU TE F3 |
| benzaldehyde | 100-52-7 | | F2 |

Legend

CA Carcinogenic
F2 Flammable - Second Degree
F3 Flammable - Third Degree
MU Mutagenic
TE Teratogenic

15.1.5 California Environmental Protection Agency (Cal/EPA): Proposition 65 - Safe Drinking Water and Toxic Enforcement Act of 1987
0.6



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Proposition 65 List of chemicals

| Name acc. to inventory | CAS No | Conc. | Remarks | Type of the toxicity |
|-------------------------|----------|---------------|------------------------|----------------------|
| ethanol (ethyl alcohol) | 64-17-5 | 0.4082 wt% | in alcoholic beverages | developmental |
| 1,4-dioxane | 123-91-1 | 0.0001556 wt% | | cancer |

Industry or sector specific available guidance(s)

NPCA-HMIS® III

Hazardous Materials Identification System. American Coatings Association.

| Category | Rating | Description |
|---------------------|--------|--|
| Chronic | * | chronic (long-term) health effects may result from repeated overexposure |
| Health | 2 | temporary or minor injury may occur |
| 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 | 2 | material that, under emergency conditions, can cause temporary incapacitation or residual 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 |
|---------|--|--|-----------------|
| 1.3 | e-mail (competent person): btirrell@bbblending.com (Beth Tirrell) | e-mail (competent person): btirrell@bbblending.com | yes |
| 2.1 | | Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200): change in the listing (table) | yes |
| 2.2 | | - Hazard statements: change in the listing (table) | yes |
| 2.2 | | - Precautionary statements: change in the listing (table) | yes |
| 2.2 | - Hazardous ingredients for labelling: reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H -isothiazol-3-one (3:1) | | yes |
| 2.3 | | Hazards not otherwise classified: change in the listing (table) | yes |
| 3.2 | | Hazardous ingredients acc. to GHS: change in the listing (table) | yes |
| 4.1 | Following skin contact: Follow water rinsing by massaging with calcium gluconate (2.5%) gel. Continue massaging with gel while seeking medical attention. | Following skin contact: Wash with plenty of soap and water. | yes |
| 4.1 | Following eye contact: Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate with calcium gluconate (1.0%) solution. Seek immediate medical attention. | Following eye contact: Remove contact lenses, if present and easy to do. Continue rinsing. | yes |
| 4.1 | Following ingestion: Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. If patient is conscious and able to swallow give oral calcium solutions or calcium based antacids or milk. Seek immediate medical attention. | Following ingestion: Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. | 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 |
| 11.1 | Acute toxicity: Shall not be classified as acutely toxic.GHS of the United Nations, annex 4: | Acute toxicity: Shall not be classified as acutely toxic.GHS of the United Nations, annex 4: May be harmful if swallowed. | yes |
| 11.1 | | Acute toxicity estimate (ATE) of components of the mixture: change in the listing (table) | yes |
| 11.1 | Respiratory or skin sensitization: May cause an allergic skin reaction. | Respiratory or skin sensitization: Shall not be classified as a respiratory or skin sensitizer. | yes |
| 11.1 | | IARC Monographs on the Evaluation of Carcinogenic Risks to Humans: change in the listing (table) | yes |



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Version number: GHS 6.0
Replaces version of: 2018-10-11 (GHS 5)

Revision: 2019-06-17

| Section | Former entry (text/value) | Actual entry (text/value) | Safety-relevant |
|-----------|--|--|-----------------|
| 12.1 | Toxicity: Toxic to aquatic life. | Toxicity: Harmful to aquatic life. | yes |
| 12.1 | | Aquatic toxicity (acute) of components of the mixture: change in the listing (table) | yes |
| 14.2 | UN proper shipping name: not relevant | UN proper shipping name: not assigned | yes |
| 14.3 | Transport hazard class(es): none | Transport hazard class(es): not assigned | yes |
| 14.4 | Packing group: not relevant | Packing group: not assigned | 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 | | Clean Air Act: none of the ingredients are listed | yes |
| 15.1.50.5 | | Right to Know Hazardous Substance List: change in the listing (table) | yes |
| 15.1.50.6 | | Proposition 65 List of chemicals: change in the listing (table) | yes |
| 15.1.50.6 | | National inventories: change in the listing (table) | yes |
| 16 | | List of relevant phrases (code and full text as stated in chapter 2 and 3): change in the listing (table) | yes |

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 |
| Carc. | Carcinogenicity |
| 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 |
| Eye Dam. | Seriously damaging to the eye |



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| Abbr. | Descriptions of used abbreviations |
|----------------|---|
| 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 |
| IARC | International Agency for Research on Cancer |
| 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") |
| 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

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. |
| H301 | Toxic if swallowed. |
| H302 | Harmful if swallowed. |
| H311 | Toxic in contact with skin. |
| H315 | Causes skin irritation. |



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| Code | Text |
|------|-----------------------------------|
| H319 | Causes serious eye irritation. |
| H331 | Toxic if inhaled. |
| H335 | May cause respiratory irritation. |
| H350 | May cause cancer. |
| 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.