

## Blair Presoak 406

Version number: GHS 1.0

Date of compilation: 2021-06-23

### SECTION 1: Identification

#### 1.1 Product identifier

Trade name **Blair Presoak 406**

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

Relevant identified uses Tire and engine degreaser  
 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

Blair Enterprises LLC  
 18540 Apache Drive  
 Parker, CO 80138  
 1-720-383-4558

<https://blairceramics.com>  
[orders@blairceramics.com](mailto:orders@blairceramics.com)

#### 1.4 Emergency telephone number

Emergency information service USA 1.800.535.5053, INTL 1.352.323.3500  
 24 hour emergency number

### 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.

## Blair Presoak 406

Version number: GHS 1.0

Date of compilation: 2021-06-23

### - 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 potassium hydroxide

### 2.3 Other hazards

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).

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not relevant (mixture)

### 3.2 Mixtures

Description of the mixture

| Name of substance              | Identifier           | Wt%       | Classification acc. to GHS   |
|--------------------------------|----------------------|-----------|--|
| 2-butoxy-1-ethanol             | CAS No<br>111-76-2   | 3 - < 12  | Acute Tox. 4 / H302<br>Acute Tox. 4 / H312<br>Acute Tox. 4 / H332<br>Skin Irrit. 2 / H315<br>Eye Irrit. 2 / H319<br>Flam. Liq. 4 / H227  |
| potassium hydroxide            | CAS No<br>1310-58-3  | 3 - < 12  | Acute Tox. 4 / H302<br>Skin Corr. 1A / H314<br>Met. Corr. 1 / H290   |
| sodium dodecylbenzenesulfonate | CAS No<br>25155-30-0 | 1 - < 3   | Acute Tox. 4 / H302<br>Skin Irrit. 2 / H315<br>Eye Irrit. 2A / H319  |
| sodium xylene sulphonate       | CAS No<br>1300-72-7  | 1 - < 3   | Skin Irrit. 2 / H315<br>Eye Irrit. 2B / H320   |
| ethanol                        | CAS No<br>64-17-5    | 0.1 - < 1 | Acute Tox. 3 / H301<br>Acute Tox. 3 / H311<br>Acute Tox. 3 / H331<br>Skin Irrit. 2 / H315<br>Eye Irrit. 2 / H319<br>Carc. 1A / H350<br>STOT SE 1 / H370<br>Flam. Liq. 2 / H225 |

## Blair Presoak 406

Version number: GHS 1.0

Date of compilation: 2021-06-23

Hazardous ingredients, Consideration of other advice

*This table, if present, includes all GHS classified ingredients present above their cut-off limits, even if the finished product is not classified as hazardous by GHS.*

Exact percentage of ingredients is withheld as a trade secret.

For full text of abbreviations: see SECTION 16.

### 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. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

Following ingestion

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

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

Symptoms and effects are not known to date.

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

none

### SECTION 5: Fire-fighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media

Water spray, Alcohol resistant foam, BC-powder, Carbon dioxide (CO<sub>2</sub>)

Unsuitable extinguishing media

Water jet

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

Substance or mixture corrosive to metals.

Hazardous combustion products

Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>)

#### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Coordinate 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.

## Blair Presoak 406

Version number: GHS 1.0

Date of compilation: 2021-06-23

### 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

Advice on how to contain a spill

Covering of drains

Advice 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.

- 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

- Packaging compatibilities

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

## Blair Presoak 406

Version number: GHS 1.0

Date of compilation: 2021-06-23

### 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 <sup>3</sup> ] | STEL [ppm] | STEL [mg/m <sup>3</sup> ] | Ceiling-C [ppm] | Ceiling-C [mg/m <sup>3</sup> ] | Notation | Source           |
| US   | 2-butoxyethanol                                 | 111-76-2  | REL        | 5 (10 h)     | 24 (10 h)                |            |                           |                 |                                |          | NIOSH REL        |
| US   | 2-butoxyethanol                                 | 111-76-2  | TLV®       | 20           |                          |            |                           |                 |                                |          | ACGIH® 2019      |
| US   | 2-butoxyethanol                                 | 111-76-2  | PEL        | 50           | 240                      |            |                           |                 |                                |          | 29 CFR 1910.1000 |
| US   | 2-butoxyethanol (EGBE) (glycol monobutyl ether) | 111-76-2  | PEL (CA)   | 20           | 97                       |            |                           |                 |                                |          | Cal/OSHA PEL     |
| US   | potassium hydroxide                             | 1310-58-3 | REL        |              |                          |            |                           |                 | 2                              |          | NIOSH REL        |
| US   | potassium hydroxide                             | 1310-58-3 | TLV®       |              |                          |            |                           |                 | 2                              |          | ACGIH® 2019      |
| US   | potassium hydroxide (caustic potash)            | 1310-58-3 | PEL (CA)   |              |                          |            |                           |                 | 2                              |          | Cal/OSHA PEL     |
| US   | ethanol   | 64-17-5   | TLV®       |              |                          | 1,000      |                           |                 |                                |          | ACGIH® 2019      |
| US   | ethyl alcohol                                   | 64-17-5   | REL        | 1,000 (10 h) | 1,900 (10 h)             |            |                           |                 |                                |          | NIOSH REL        |
| US   | ethyl alcohol (ethanol)                         | 64-17-5   | PEL (CA)   | 1,000        | 1,900                    |            |                           |                 |                                |          | Cal/OSHA PEL     |
| 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)

## Blair Presoak 406

Version number: GHS 1.0

Date of compilation: 2021-06-23

| Biological limit values |                 |                         |            |            |          |             |
|-------------------------|-----------------|-------------------------|------------|------------|----------|-------------|
| Country                 | Name of agent   | Parameter               | Notation   | Identifier | Value    | Source      |
| US                      | 2-butoxyethanol | Butoxyacetic acid (BAA) | hydr, crea | BEI®       | 200 mg/g | ACGIH® 2019 |

Notation

crea creatinine  
hydr hydrolysis

| 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              |
| 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 <sup>3</sup>    | human, inhalatory                  | worker (industry) | chronic - systemic effects |
| potassium hydroxide                         | 1310-58-3  | DNEL      | 1 mg/m <sup>3</sup>     | human, inhalatory                  | worker (industry) | chronic - local effects    |
| sodium dodecylbenzenesulfonate              | 25155-30-0 | DNEL      | 52 mg/m <sup>3</sup>    | human, inhalatory                  | worker (industry) | chronic - systemic effects |
| sodium dodecylbenzenesulfonate              | 25155-30-0 | DNEL      | 52 mg/m <sup>3</sup>    | human, inhalatory                  | worker (industry) | acute - systemic effects   |
| sodium dodecylbenzenesulfonate              | 25155-30-0 | DNEL      | 52 mg/m <sup>3</sup>    | human, inhalatory                  | worker (industry) | chronic - local effects    |
| sodium dodecylbenzenesulfonate              | 25155-30-0 | DNEL      | 52 mg/m <sup>3</sup>    | human, inhalatory                  | worker (industry) | acute - local effects      |
| sodium dodecylbenzenesulfonate              | 25155-30-0 | DNEL      | 57 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 <sup>3</sup> | 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 <sup>3</sup>   | human, inhalatory                  | 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                |
| 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) |

## Blair Presoak 406

Version number: GHS 1.0

Date of compilation: 2021-06-23

| Relevant PNECs of components of the mixture |            |           |                 |                       |                              |                              |
|---|------------|-----------|-----------------|-----------------------|------------------------------|------------------------------|
| Name of substance                           | CAS No     | End-point | Threshold level | Organism              | Environmental compartment    | Exposure time                |
| 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      | 35 mg/kg        | benthic organisms     | sediment                     | short-term (single instance) |
| 2-butoxy-1-ethanol                          | 111-76-2   | PNEC      | 3.1 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         |
| sodium dodecylbenzenesulfonate              | 25155-30-0 | PNEC      | 0.69 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      | 28 mg/kg        | aquatic organisms     | freshwater sediment          | short-term (single instance) |
| sodium dodecylbenzenesulfonate              | 25155-30-0 | PNEC      | 2.8 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) |
| 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      | 2.8 mg/l        | aquatic organisms     | water                        | intermittent release         |

### 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.

## Blair Presoak 406

Version number: GHS 1.0

Date of compilation: 2021-06-23

**- 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.

### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

**Appearance**

|                |                       |
|----------------|-----------------------|
| Physical state | liquid                |
| Color          | green                 |
| Particle       | not relevant (liquid) |
| Odor           | characteristic        |

**Other safety parameters**

|   |  |
|---|--|
| pH (value)                              | >14 (25 °C) (base)                             |
| Melting point/freezing point            | not determined                                 |
| Initial boiling point and boiling range | 100 °C   |
| Flash point                             | >100 °C at 1,013 hPa no flash closed cup       |
| Evaporation rate                        | Not determined                                 |
| Flammability (solid, gas)               | not relevant, (fluid)                          |
| Vapor pressure                          | 32 hPa at 25 °C                                |
| Density                                 | 1.1 g/cm <sup>3</sup> at 25 °C 9.36 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 |
|-----------------------------|-----------------------------------|



## Blair Presoak 406

Version number: GHS 1.0

Date of compilation: 2021-06-23

|  |  |
|--|--|
| Auto-ignition temperature                | 230 °C   |
| Viscosity                                | not determined   |
| Explosive properties                     | none   |
| Oxidizing properties                     | none   |
| Temperature class (USA, acc. to NEC 500) | T2D (maximum permissible surface temperature on the equipment: 215 °C) |

### 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.

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

## Blair Presoak 406

Version number: GHS 1.0

Date of compilation: 2021-06-23

| Acute toxicity estimate (ATE) of components of the mixture |            |                   |             |
|--|------------|-------------------|-------------|
| Name of substance  | CAS No     | Exposure route    | ATE         |
| 2-butoxy-1-ethanol   | 111-76-2   | oral              | 1,746 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 dodecylbenzenesulfonate                             | 25155-30-0 | oral              | 650 mg/kg   |
| ethanol  | 64-17-5    | dermal            | 300 mg/kg   |

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

### Legend

- 1 Carcinogenic to humans
- 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.

## Blair Presoak 406

Version number: GHS 1.0

Date of compilation: 2021-06-23

### 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 |
| 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 dodecylbenzenesulfonate                        | 25155-30-0 | LC50     | 7.2 mg/l   | fish                  | 96 h          |
| sodium dodecylbenzenesulfonate                        | 25155-30-0 | EC50     | 6.3 mg/l   | aquatic invertebrates | 48 h          |
| ethanol   | 64-17-5    | LC50     | 14 g/l     | fish                  | 96 h          |
| ethanol   | 64-17-5    | EC50     | 13 g/l     | fish                  | 96 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.

#### 12.6 Endocrine disrupting properties

None of the ingredients are listed.

#### 12.7 Other adverse effects

Data are not available.

### 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.

## Blair Presoak 406

Version number: GHS 1.0


Date of compilation: 2021-06-23

### SECTION 14: Transport information

|  |                              |   |
|--|------------------------------|---|
| <b>14.1 UN number</b>  |                              |   |
| DOT  | UN 1760                      |   |
| IMDG-Code  | UN 1760                      |   |
| ICAO-TI  | UN 1760                      |   |
| <b>14.2 UN proper shipping name</b>  |                              |   |
| DOT  | Corrosive liquid, n.o.s.     |   |
| IMDG-Code  | CORROSIVE LIQUID, N.O.S.     |   |
| ICAO-TI  | Corrosive liquid, n.o.s.     |   |
| Technical name (hazardous ingredients)   | potassium hydroxide, ethanol |   |
| <b>14.3 Transport hazard class(es)</b>   |                              |   |
| DOT  | 8                            |   |
| IMDG-Code  | 8                            |   |
| ICAO-TI  | 8                            |   |
| <b>14.4 Packing group</b>  |                              |   |
| DOT  | III                          |   |
| IMDG-Code  | III                          |   |
| ICAO-TI  | III                          |   |
| <b>14.5 Environmental hazards</b>  |                              | non-environmentally hazardous acc. to the dangerous goods regulations |
| <b>14.6 Special precautions for user</b>                                       |                              |   |
| There is no additional information.  |                              |   |
| <b>14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code</b> |                              |   |
| 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) - Additional information**

|   |  |
|---|--|
| Particulars in the shipper's declaration  | UN1760, Corrosive liquid, n.o.s., (contains: potassium hydroxide, ethanol), 8, III |
| Reportable quantity (RQ)  | 26,903 lbs (12,214 kg) (potassium hydroxide) (1,4-dioxane)                         |
| Danger label(s)   | 8  |
|  |  |
| Special provisions (SP)   | IB3, T7, TP1, TP28   |
| ERG No  | 154  |

## Blair Presoak 406

Version number: GHS 1.0

Date of compilation: 2021-06-23

### International Maritime Dangerous Goods Code (IMDG) - Additional information

Marine pollutant -  
 Danger label(s) 8



Special provisions (SP) 223, 274  
 Excepted quantities (EQ) E1  
 Limited quantities (LQ) 5 L  
 EmS F-A, S-B  
 Stowage category A

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

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)

**Toxic Substance Control Act (TSCA)** all ingredients are listed

#### 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) |
|--------------------------------|------------|---------|----------------|----------------------|
| potassium hydroxide            | 1310-58-3  |         | 1              | 1000 (454)           |
| 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

## Blair Presoak 406

Version number: GHS 1.0

Date of compilation: 2021-06-23

### Right to Know Hazardous Substance List

#### - Toxic or Hazardous Substance List (MA-TURA)

| Name of substance              | CAS No     | DEP CODE | PBT / HHS / LHS | PBT / HHS Threshold | De Minimis Concentration Threshold |
|--------------------------------|------------|----------|-----------------|---------------------|------------------------------------|
| 2-butoxy-1-ethanol             |            | 1022     |                 |                     | 1.0 %                              |
| potassium hydroxide            | 1310-58-3  |          |                 |                     | 1.0 %                              |
| sodium dodecylbenzenesulfonate | 25155-30-0 |          |                 |                     | 1.0 %                              |

#### - Hazardous Substances List (MN-ERTK)

| Name of substance   | Name acc. to inventory | CAS No    | References | Remarks |
|---------------------|------------------------|-----------|------------|---------|
| 2-butoxy-1-ethanol  | 2-Butoxyethanol(EGBE)  | 111-76-2  | A, O       | skin    |
| potassium hydroxide | Potassium hydroxide    | 1310-58-3 | A          |         |

#### Legend

- A American Conference of Governmental Industrial Hygienists (ACGIH), "Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices for 1992-93", available from ACGIH
- O Occupational Safety and Health Administration (OSHA), Safety and Health Standards, Code of Federal Regulations, title 29, part 1910, subpart Z, "Toxic and Hazardous Substances, 1990." General information: Minnesota Department of Labor and Industry, Occupational Safety and Health Division
- skin If a potential for absorption from skin contact merits special consideration, the word "skin" follows the substance name.

#### - Hazardous Substance List (NJ-RTK)

| Name of substance              | Name acc. to inventory  | CAS No     | Remarks | Classifications      |
|--------------------------------|---|------------|---------|----------------------|
| 2-butoxy-1-ethanol             | 2-butoxyethanol (butyl cellosolve)  | 111-76-2   |         | CA<br>F2             |
| potassium hydroxide            | potassium hydroxide (caustic potash)  | 1310-58-3  |         | CO<br>R1             |
| sodium dodecylbenzenesulfonate | SODIUM DODECYLBENZENE SULFONATE (BENZENESULFONIC ACID, DODECYL-, SODIUM SALT) | 25155-30-0 |         |                      |
| ethanol                        | ethyl alcohol (ethanol)   | 64-17-5    |         | CA<br>MU<br>TE<br>F3 |

#### Legend

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

## Blair Presoak 406

Version number: GHS 1.0

Date of compilation: 2021-06-23

### - Hazardous Substance List (Chapter 323) (PA-RTK)

| Name acc. to inventory                       | CAS No     | Classification |
|--|------------|----------------|
| ETHANOL, 2-BUTOXY-                           | 111-76-2   |                |
| POTASSIUM HYDROXIDE (K(OH))                  | 1310-58-3  | E              |
| BENZENESULFONIC ACID, DODECYL-, SO-DIUM SALT | 25155-30-0 | E              |

**Legend**

E Environmental hazard

### - Hazardous Substance List (RI-RTK)

| Name of substance   | CAS No    | References |
|---------------------|-----------|------------|
| 2-butoxy-1-ethanol  | 111-76-2  | T          |
| potassium hydroxide | 1310-58-3 | T, F       |
| ethanol             | 64-17-5   | T, F       |

**Legend**

F Flammability (NFPA®)  
T Toxicity (ACGIH®)

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

| Proposition 65 List of chemicals |                         |         |      |                        |                      |
|----------------------------------|-------------------------|---------|------|------------------------|----------------------|
| Name of substance                | Name acc. to inventory  | CAS No  | Wt%  | Remarks                | Type of the toxicity |
| ethanol                          | ethanol (ethyl alcohol) | 64-17-5 | 0.84 | in alcoholic beverages | developmental        |

### VOC content

- Regulated Volatile Organic Compounds (VOC-EPA) 8.7 %
- Regulated Volatile Organic Compounds (VOC-Cal ARB) 8.7 %

### 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              | 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 | -      |  |

## Blair Presoak 406

Version number: GHS 1.0

Date of compilation: 2021-06-23

### 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. | 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.

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

### 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 U.S. Department of Transportation   |
| ACGIH®           | American Conference of Governmental Industrial Hygienists  |
| ACGIH® 2019      | From ACGIH®, 2019 TLVs® and BEIs® Book. Copyright 2019. Reprinted with permission. Information on the proper use of the TLVs® and BEIs®: <a href="http://www.acgih.org/tlv-bei-guidelines/policies-procedures-presentations/tlv-bei-position-statement">http://www.acgih.org/tlv-bei-guidelines/policies-procedures-presentations/tlv-bei-position-statement</a> |
| Acute Tox.       | Acute toxicity   |
| ATE              | Acute Toxicity Estimate  |
| Cal/OSHA PEL     | California Division of Occupational Safety and Health (Cal/OSHA): Permissible Exposure Limits (PELs)   |
| Cal ARB          | California Air Resources Board   |
| Carc.            | Carcinogenicity  |
| CAS              | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)   |
| Ceiling-C        | Ceiling value  |
| DEP CODE         | Department of Environmental Protection Code  |



## Blair Presoak 406

Version number: GHS 1.0

Date of compilation: 2021-06-23

| Abbr.          | Descriptions of used abbreviations   |
|----------------|--|
| DGR            | Dangerous Goods Regulations (see IATA/DGR)   |
| DNEL           | Derived No-Effect Level  |
| DOT            | Department of Transportation (USA)   |
| 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 |
| EmS            | Emergency Schedule   |
| EPA            | Environmental Protection Agency. An agency of the federal government of the United States charged with protecting human health and the environment                               |
| 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           |
| 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  |
| HHS            | Higher hazard substance  |
| 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  |
| LC50           | Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval                                |
| LHS            | Lower hazard substance   |
| MARPOL         | International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")  |
| Met. Corr.     | Substance or mixture corrosive to metals   |
| NFPA®          | National Fire Protection Association (United States)   |
| NIOSH REL      | National Institute for Occupational Safety and Health (NIOSH): Recommended Exposure Limits (RELs)  |
| 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  |
| RTECS          | Registry of Toxic Effects of Chemical Substances (database of NIOSH with toxicological information)  |
| Skin Corr.     | Corrosive to skin  |

## Blair Presoak 406

Version number: GHS 1.0

Date of compilation: 2021-06-23

| Abbr.       | Descriptions of used abbreviations               |
|-------------|--|
| Skin Irrit. | Irritant to skin                                 |
| STEL        | Short-term exposure limit                        |
| STOT SE     | Specific target organ toxicity - single exposure |
| TLV®        | Threshold Limit Values                           |
| TWA         | Time-weighted average                            |
| VOC         | Volatile Organic Compounds                       |
| 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.                      |
| 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.                      |
| 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.