

**BCL TW AHS LO PH 1900 55GL**

Version 2.0

Revision Date 06/12/2018

Print Date 05/30/2020

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Material name : BCL TW AHS LO PH 1900 55GL

Material number : V30085

**Manufacturer or supplier's details**

Company : Zep Inc.

Address : 350 Joe Frank Harris Parkway, SE  
Emerson, GA 30137

Telephone : 404-352-1680

**Emergency telephone numbers**
**For SDS Information** : Compliance Services 1-877-428-9937

**For a Medical Emergency** : 877-541-2016 Toll Free - All Calls Recorded

**For a Transportation** : CHEMTREC: 800-424-9300 - All Calls Recorded.

**Emergency** : In the District of Columbia 202-483-7616

**Recommended use of the chemical and restrictions on use**

Recommended use : Transportation Wash

**SECTION 2. HAZARDS IDENTIFICATION**
**Emergency Overview**

|            |              |
|------------|--------------|
| Appearance | liquid       |
| Colour     | clear, amber |
| Odour      | solvent-like |

**GHS Classification**

Acute toxicity (Oral) : Category 4

Skin corrosion : Category 1

Serious eye damage : Category 1

**GHS label elements**

Hazard pictograms :



Signal word : Danger

Hazard statements : H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.Precautionary statements : **Prevention:**  
P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

**BCL TW AHS LO PH 1900 55GL**

Version 2.0

Revision Date 06/12/2018

Print Date 05/30/2020

**Response:**

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.

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.

P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

P363 Wash contaminated clothing before reuse.

**Disposal:**

P501 Dispose of contents/container in accordance with local regulation.

---

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

**Hazardous components**

| Chemical name  | CAS-No.    | Concentration [%] |
|--|------------|-------------------|
| Benzenesulfonic acid, C10-16-alkyl derivs.                       | 68584-22-5 | >= 30 - < 50      |
| 2-butoxyethanol  | 111-76-2   | >= 20 - < 30      |
| dodecylbenzenesulphonic acid, compound with 2-aminoethanol (1:1) | 26836-07-7 | >= 10 - < 20      |
| Alcohols, C9-11, ethoxylated                                     | 68439-46-3 | >= 5 - < 10       |
| 1-methoxypropan-2-ol   | 107-98-2   | >= 3 - < 5        |
| 2-aminoethyl hydrogen sulphate                                   | 926-39-6   | >= 1 - < 3        |

The exact percentages of disclosed substances are withheld as trade secrets.

---

**SECTION 4. FIRST AID MEASURES**

- General advice : Move out of dangerous area.  
Consult a physician.  
Show this safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.
- If inhaled : If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.
- In case of skin contact : Wash off immediately with plenty of water for at least 15 minutes.  
If on skin, rinse well with water.  
If on clothes, remove clothes.  
Wash contaminated clothing before re-use.

**BCL TW AHS LO PH 1900 55GL**

Version 2.0

Revision Date 06/12/2018

Print Date 05/30/2020

- In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.  
If in eyes, rinse with water for 15 minutes.  
Continue rinsing eyes during transport to hospital.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.  
Do NOT induce vomiting.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.  
Take victim immediately to hospital.
- Most important symptoms and effects, both acute and delayed : Effects are immediate and delayed.  
Symptoms may include blistering, irritation, burns, and pain.  
Effects are dependent on exposure (dose, concentration, contact time).  
Symptoms of overexposure may include disorientation; dizziness; and confusion. May progress to unconsciousness, paralysis, and convulsions.  
  
Causes severe skin burns and eye damage.  
Harmful if swallowed.  
Review section 2 of SDS to see all potential hazards.
- Notes to physician : Treat symptomatically. Symptoms may be delayed.

---

**SECTION 5. FIREFIGHTING MEASURES**

- Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : Carbon dioxide (CO<sub>2</sub>)  
Carbon monoxide  
Nitrogen oxides (NO<sub>x</sub>)  
Smoke  
Sulphur oxides
- Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.  
For safety reasons in case of fire, cans should be stored

**BCL TW AHS LO PH 1900 55GL**

Version 2.0

Revision Date 06/12/2018

Print Date 05/30/2020

separately in closed containments.  
Use a water spray to cool fully closed containers.

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

---

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.

Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).  
Keep in suitable, closed containers for disposal.

---

**SECTION 7. HANDLING AND STORAGE**

Advice on safe handling : Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Provide sufficient air exchange and/or exhaust in work rooms.  
To avoid spills during handling keep bottle on a metal tray.  
Dispose of rinse water in accordance with local and national regulations.  
Avoid inhalation of vapour or mist.

Conditions for safe storage : No smoking.  
Keep container tightly closed in a dry and well-ventilated place.  
Observe label precautions.  
Electrical installations / working materials must comply with the technological safety standards.

Materials to avoid : Oxidizing agents  
Store and keep away from bases and alkalies.

---

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**
**Components with workplace control parameters**

| Components | CAS-No. | Value type<br>(Form of exposure) | Control parameters /<br>Permissible concentration | Basis |
|------------|---------|----------------------------------|---|-------|
|            |         |                                  |   |       |

**BCL TW AHS LO PH 1900 55GL**

Version 2.0

Revision Date 06/12/2018

Print Date 05/30/2020

|                      |          |      |                                  |           |
|----------------------|----------|------|----------------------------------|-----------|
| 2-butoxyethanol      | 111-76-2 | TWA  | 20 ppm                           | ACGIH     |
|                      |          | TWA  | 5 ppm<br>24 mg/m <sup>3</sup>    | NIOSH REL |
|                      |          | TWA  | 50 ppm<br>240 mg/m <sup>3</sup>  | OSHA Z-1  |
|                      |          | TWA  | 25 ppm<br>120 mg/m <sup>3</sup>  | OSHA P0   |
|                      |          | PEL  | 20 ppm<br>97 mg/m <sup>3</sup>   | CAL PEL   |
| 1-methoxypropan-2-ol | 107-98-2 | TWA  | 50 ppm                           | ACGIH     |
|                      |          | STEL | 100 ppm                          | ACGIH     |
|                      |          | ST   | 150 ppm<br>540 mg/m <sup>3</sup> | NIOSH REL |
|                      |          | TWA  | 100 ppm<br>360 mg/m <sup>3</sup> | NIOSH REL |
|                      |          | TWA  | 100 ppm<br>360 mg/m <sup>3</sup> | OSHA P0   |
|                      |          | STEL | 150 ppm<br>540 mg/m <sup>3</sup> | OSHA P0   |
|                      |          | PEL  | 100 ppm<br>360 mg/m <sup>3</sup> | CAL PEL   |
|                      |          | STEL | 150 ppm<br>540 mg/m <sup>3</sup> | CAL PEL   |

**Biological occupational exposure limits**

| Component       | CAS-No.  | Control parameters      | Biological specimen | Sampling time  | Permissible concentration | Basis     |
|-----------------|----------|-------------------------|---------------------|--|---------------------------|-----------|
| 2-BUTOXYETHANOL | 111-76-2 | Butoxyacetic acid (BAA) | Urine               | End of shift (As soon as possible after exposure ceases) | 200.mg/g Creatinine       | ACGIH BEI |

**Engineering measures** : effective ventilation in all processing areas

**Personal protective equipment**

Respiratory protection : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

Hand protection

Material

Remarks

: Protective gloves

: The suitability for a specific workplace should be discussed with the producers of the protective gloves. Rubber gloves  
Nitrile rubber Neoprene gloves

Eye protection

: Ensure that eyewash stations and safety showers are close to the workstation location.  
Tightly fitting safety goggles  
Wear face-shield and protective suit for abnormal processing problems.

**BCL TW AHS LO PH 1900 55GL**

Version 2.0

Revision Date 06/12/2018

Print Date 05/30/2020

|                          |   |
|--------------------------|---|
| Skin and body protection | : Impervious clothing<br>Choose body protection according to the amount and concentration of the dangerous substance at the work place. |
| Hygiene measures         | : When using do not eat or drink.<br>When using do not smoke.<br>Wash hands before breaks and at the end of workday.                    |

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

|  |                                   |
|--|-----------------------------------|
| Appearance                             | : liquid                          |
| Colour                                 | : clear, amber                    |
| Odour                                  | : solvent-like                    |
| Odour Threshold                        | : No data available               |
| pH                                     | : 2.0 - 3.5, 1 %                  |
| Melting point/freezing point           | : -6.67 °C                        |
| Boiling point                          | : No data available               |
| Flash point                            | : > 93.3 °C<br>Method: closed cup |
| Evaporation rate                       | : No data available               |
| Upper explosion limit                  | : No data available               |
| Lower explosion limit                  | : No data available               |
| Vapour pressure                        | : No data available               |
| Relative vapour density                | : No data available               |
| Density                                | : 1.009 - 1.021 g/cm <sup>3</sup> |
| Solubility(ies)                        |                                   |
| Water solubility                       | : No data available               |
| Solubility in other solvents           | : not determined                  |
| Partition coefficient: n-octanol/water | : No data available               |
| Auto-ignition temperature              | : not determined                  |
| Thermal decomposition                  | : No data available               |
| Viscosity                              |                                   |
| Viscosity, kinematic                   | : No data available               |

**SECTION 10. STABILITY AND REACTIVITY**

|            |          |
|------------|----------|
| Reactivity | : Stable |
|------------|----------|

**BCL TW AHS LO PH 1900 55GL**

Version 2.0

Revision Date 06/12/2018

Print Date 05/30/2020

|                                    |   |
|------------------------------------|---|
| Chemical stability                 | : Stable under normal conditions.   |
| Possibility of hazardous reactions | : No decomposition if stored and applied as directed.   |
| Conditions to avoid                | : Extremes of temperature and direct sunlight.  |
| Incompatible materials             | : Alkaline materials<br>Bases<br>Oxidizing agents   |
| Hazardous decomposition products   | : Carbon dioxide (CO <sub>2</sub> )<br>Carbon monoxide<br>Sulphur compounds<br>Nitrogen oxides (NO <sub>x</sub> ) |

---

**SECTION 11. TOXICOLOGICAL INFORMATION**
**Potential Health Effects**

|                              |   |
|------------------------------|---|
| Aggravated Medical Condition | : None known.   |
| Symptoms of Overexposure     | : Effects are immediate and delayed.<br>Symptoms may include blistering, irritation, burns, and pain. Effects are dependent on exposure (dose, concentration, contact time).<br>Symptoms of overexposure may include disorientation; dizziness; and confusion. May progress to unconsciousness, paralysis, and convulsions. |

**Carcinogenicity:**

|              |   |
|--------------|---|
| <b>IARC</b>  | No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.                                 |
| <b>ACGIH</b> | Confirmed animal carcinogen with unknown relevance to humans  |
| <b>OSHA</b>  | 2-butoxyethanol <span style="float: right;">111-76-2</span><br>No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens. |
| <b>NTP</b>   | No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.   |

**Acute toxicity**
**Product:**

|                     |  |
|---------------------|--|
| Acute oral toxicity | : Acute toxicity estimate : 825.16 mg/kg<br>Method: Calculation method |
|---------------------|--|

**BCL TW AHS LO PH 1900 55GL**

Version 2.0

Revision Date 06/12/2018

Print Date 05/30/2020

Acute inhalation toxicity : Acute toxicity estimate : 39.29 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate : 3,786 mg/kg  
Method: Calculation method

**Components:****2-butoxyethanol:**

Acute oral toxicity : LD50 Oral Rat: 880 mg/kg

Acute dermal toxicity : LD50 Dermal Rabbit: 1,060 mg/kg

**Alcohols, C9-11, ethoxylated:**

Acute oral toxicity : LD50 Oral Rat: 1,400 mg/kg

**Skin corrosion/irritation****Product:**

Remarks: Extremely corrosive and destructive to tissue.

**Serious eye damage/eye irritation****Product:**

Remarks: May cause irreversible eye damage.

**Respiratory or skin sensitisation**

No data available

**Germ cell mutagenicity**

No data available

**Carcinogenicity**

No data available

**Reproductive toxicity**

No data available

**STOT - single exposure**

No data available

**STOT - repeated exposure**

No data available

**Aspiration toxicity**

No data available

**Further information****Product:**



**BCL TW AHS LO PH 1900 55GL**

Version 2.0

Revision Date 06/12/2018

Print Date 05/30/2020

Remarks: No data available

**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity**

No data available

**Persistence and degradability**

No data available

**Bioaccumulative potential****Product:**

Partition coefficient: n-octanol/water : Remarks: No data available

**Components:**1-methoxypropan-2-ol :  
Partition coefficient: n-octanol/water : Pow: < 1**Mobility in soil**

No data available

**Other adverse effects**

No data available

**Product:**

Regulation 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances

Remarks This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological information : No data available

No data available

**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

Waste from residues : Dispose of in accordance with local regulations. Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemical or used container.

Contaminated packaging : Empty remaining contents.

**BCL TW AHS LO PH 1900 55GL**

Version 2.0

Revision Date 06/12/2018

Print Date 05/30/2020

Dispose of as unused product.  
Do not re-use empty containers.

**SECTION 14. TRANSPORT INFORMATION**

Transportation Regulation: 49 CFR (USA):  
UN3265, Corrosive liquid, acidic, organic, n.o.s., (ALKYL BENZENE SULFONIC ACID), 8, III

Transportation Regulation: IMDG (Vessel):  
UN3265, CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S., (ALKYL BENZENE SULFONIC ACID), 8, III

Transportation Regulation: IATA (Cargo Air):  
UN3265, Corrosive liquid, acidic, organic, n.o.s., (ALKYL BENZENE SULFONIC ACID), 8, III

Transportation Regulation: IATA (Passenger Air):  
UN3265, Corrosive liquid, acidic, organic, n.o.s., (ALKYL BENZENE SULFONIC ACID), 8, III

Transportation Regulation: TDG (Canada):  
UN3265, CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S., (ALKYL BENZENE SULFONIC ACID), 8, III

The product as delivered to the customer conforms to packaging requirements for shipment by road under US Department of Transportation (DOT) regulations. Additional transportation classifications noted above are for reference only, and not a certification or warranty of the suitability of the packaging for shipment under these alternative transport regulations.

**SECTION 15. REGULATORY INFORMATION**

**TSCA list** : No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

**EPCRA - Emergency Planning and Community Right-to-Know Act**
**CERCLA Reportable Quantity**

| Components          | CAS-No.  | Component RQ (lbs) | Calculated product RQ (lbs) |
|---------------------|----------|--------------------|-----------------------------|
| 2,2'-iminodiethanol | 111-42-2 | 100                | *                           |

\*: Calculated RQ exceeds reasonably attainable upper limit.

**SARA 304 Extremely Hazardous Substances Reportable Quantity**

This material does not contain any components with a section 304 EHS RQ.

**SARA 311/312 Hazards** : Acute toxicity (any route of exposure)  
Skin corrosion or irritation  
Serious eye damage or eye irritation

**BCL TW AHS LO PH 1900 55GL**

Version 2.0

Revision Date 06/12/2018

Print Date 05/30/2020

**SARA 302** : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313** : The following components are subject to reporting levels established by SARA Title III, Section 313:  
 2-butoxyethanol 111-76-2 27.9953 %

**California Prop. 65**



**WARNING:** This product can expose you to chemicals including 2,2'-iminodiethanol, which is/are known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**The components of this product are reported in the following inventories:**

**DSL** All components of this product are on the Canadian DSL  
**TSCA** On TSCA Inventory

For information on the country notification status for other regions please contact the manufacturer's regulatory group.

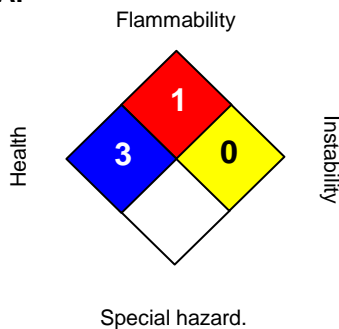
**Inventory Acronym and Validity Area Legend:**

TSCA (USA), DSL (Canada), NDSL (Canada)

**SECTION 16. OTHER INFORMATION**

**Further information**

**NFPA:**



**HMIS III:**

|                        |          |
|------------------------|----------|
| <b>HEALTH</b>          | <b>3</b> |
| <b>FLAMMABILITY</b>    | <b>1</b> |
| <b>PHYSICAL HAZARD</b> | <b>0</b> |

0 = not significant, 1 =Slight,  
 2 = Moderate, 3 = High  
 4 = Extreme, \* = Chronic

**OSHA - GHS Label Information:**

# SAFETY DATA SHEET



## BCL TW AHS LO PH 1900 55GL

Version 2.0

Revision Date 06/12/2018

Print Date 05/30/2020

Hazard pictograms :



Signal word :

**Danger:**

Hazard statements :

Harmful if swallowed. Causes severe skin burns and eye damage.

Precautionary statements :

**Prevention:** Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:** IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. Wash contaminated clothing before reuse.

**Disposal:** Dispose of contents/container in accordance with local regulation.

|                |            |
|----------------|------------|
| Version:       | 2.0        |
| Revision Date: | 06/12/2018 |
| Print Date:    | 05/30/2020 |

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind. The information in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. Users should make their own investigations to determine the suitability and applicability of the information for their particular purposes. This SDS has been prepared by the Compliance Services organization supporting this manufacturer, supplier or distributor.

Zep Inc. markets products under well recognized and established brand names such as Zep®, Zep Commercial®, Zep Professional®, Enforcer®, National Chemical™, Selig™, Misty®, Next Dimension™, Petro®, i-Chem®, TimeMist®, TimeWick™, MicrobeMax®, Country Vet®, Konk®, Original Bike Spirits®, Blue Coral®, Black Magic®, Rain-X®, Niagara National™, FC Forward Chemicals®, Rexodan®, Mykal™, and a number of private labeled brands.