

**BZ7660 ZP HD TRUCK&TRAILR WA R34589 275G**

Version 2.1

Revision Date 04/08/2015

Print Date 03/31/2016

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Material name : BZ7660 ZP HD TRUCK&amp;TRAILR WA R34589 275G

Material number : 000000000001047661

**Manufacturer or supplier's details**

Company : Zep Inc.

Address : 1310 Seaboard Industrial Blvd., NW  
Atlanta, GA 30318

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 Emergency** : CHEMTREC: 800-424-9300 - All Calls Recorded.  
In the District of Columbia 202-483-7616**SECTION 2. HAZARDS IDENTIFICATION****Emergency Overview**

|            |              |
|------------|--------------|
| Appearance | liquid       |
| Colour     | amber, clear |
| Odour      | mild         |

**GHS Classification**

Skin corrosion : Category 1A

Serious eye damage : Category 1

**GHS Label element**

Hazard pictograms :



Signal word : Danger

Hazard statements : H314 Causes severe skin burns and eye damage.

Precautionary statements : **Prevention:**  
P264 Wash skin thoroughly after handling.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
**Response:**  
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.

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P304 + P340 + P310 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.  
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 or doctor/ physician.  
P363 Wash contaminated clothing before reuse.

**Storage:**

P405 Store locked up.

**Disposal:**

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

**Potential Health Effects****Carcinogenicity:****IARC**

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.

**ACGIH**

Confirmed animal carcinogen with unknown relevance to humans

2-butoxyethanol

111-76-2

**OSHA**

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**NTP**

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.

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

Substance / Mixture : Mixture

**Hazardous components**

| Chemical Name                           | CAS-No.    | Concentration [%] |
|-----------------------------------------|------------|-------------------|
| sodium xylenesulphonate                 | 1300-72-7  | >= 5 - < 10       |
| 2-aminoethanol                          | 141-43-5   | >= 5 - < 10       |
| tetrasodium ethylenediaminetetraacetate | 64-02-8    | >= 5 - < 10       |
| sodium hydroxide                        | 1310-73-2  | >= 5 - < 10       |
| Alcohols, C10-14, ethoxylated           | 66455-15-0 | >= 5 - < 10       |
| sodium dodecylbenzenesulfonate          | 25155-30-0 | >= 1 - < 5        |

**SECTION 4. FIRST AID MEASURES**

General advice : Move out of dangerous area.  
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.  
Consult a physician after significant exposure.

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- |                         |                                                                                                                                                                                                                                                                         |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| In case of skin contact | : Wash off immediately with plenty of water for at least 15 minutes.<br>If on skin, rinse well with water.<br>If on clothes, remove clothes.                                                                                                                            |
| In case of eye contact  | : Rinse immediately with plenty of water for at least 15 minutes.<br>Remove contact lenses.<br>Protect unharmed eye.<br>Keep eye wide open while rinsing.<br>If eye irritation persists, consult a specialist.                                                          |
| If swallowed            | : Keep respiratory tract clear.<br>DO NOT induce vomiting unless directed to do so by a physician or poison control center.<br>Never give anything by mouth to an unconscious person.<br>If symptoms persist, call a physician.<br>Take victim immediately to hospital. |

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**SECTION 5. FIREFIGHTING MEASURES**

- |                                               |                                                                                                                                                                                                                           |
|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Suitable extinguishing media                  | : Dry chemical<br>Carbon dioxide (CO2)<br>Water spray jet<br>Alcohol-resistant foam                                                                                                                                       |
| 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 (CO2)<br>Carbon monoxide<br>Smoke                                                                                                                                                                        |
| 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.<br>Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. |
| Special protective equipment for firefighters | : Wear self-contained breathing apparatus for firefighting if necessary.                                                                                                                                                  |

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**SECTION 6. ACCIDENTAL RELEASE MEASURES**

- |                                                                     |                                                                                                           |
|---------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| Personal precautions, protective equipment and emergency procedures | : Use personal protective equipment.<br>Evacuate personnel to safe areas.<br>Ensure adequate ventilation. |
| Environmental precautions                                           | : Prevent product from entering drains.<br>Prevent further leakage or spillage if safe to do so.          |

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If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Keep in suitable, closed containers for disposal.

**SECTION 7. HANDLING AND STORAGE**

Advice on safe handling : Do not breathe vapours/dust.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Dispose of rinse water in accordance with local and national regulations.

Conditions for safe storage : 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.  
No smoking.

Materials to avoid : Do not store near acids.  
Oxidizing agents  
Keep away from metals.

**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     |
|------------------|-----------|----------------------------------|---------------------------------------------------|-----------|
| 2-aminoethanol   | 141-43-5  | TWA                              | 3 ppm                                             | ACGIH     |
|                  |           | STEL                             | 6 ppm                                             | ACGIH     |
|                  |           | TWA                              | 3 ppm<br>8 mg/m <sup>3</sup>                      | NIOSH REL |
|                  |           | ST                               | 6 ppm<br>15 mg/m <sup>3</sup>                     | NIOSH REL |
|                  |           | TWA                              | 3 ppm<br>6 mg/m <sup>3</sup>                      | OSHA Z-1  |
|                  |           | STEL                             | 6 ppm<br>15 mg/m <sup>3</sup>                     | OSHA P0   |
|                  |           | TWA                              | 3 ppm<br>8 mg/m <sup>3</sup>                      | OSHA P0   |
|                  |           |                                  |                                                   |           |
| sodium hydroxide | 1310-73-2 | C                                | 2 mg/m <sup>3</sup>                               | ACGIH     |
|                  |           | C                                | 2 mg/m <sup>3</sup>                               | NIOSH REL |
|                  |           | TWA                              | 2 mg/m <sup>3</sup>                               | OSHA Z-1  |
|                  |           | C                                | 2 mg/m <sup>3</sup>                               | OSHA P0   |
| 2-butoxyethanol  | 111-76-2  | TWA                              | 20 ppm                                            | ACGIH     |

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|  |  |     |                     |           |
|--|--|-----|---------------------|-----------|
|  |  | TWA | 5 ppm<br>24 mg/m3   | NIOSH REL |
|  |  | TWA | 50 ppm<br>240 mg/m3 | OSHA Z-1  |
|  |  | TWA | 25 ppm<br>120 mg/m3 | OSHA P0   |

**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 : The suitability for a specific workplace should be discussed with the producers of the protective gloves.
- Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.
- Eye protection : Ensure that eyewash stations and safety showers are close to the workstation location.  
Tightly fitting safety goggles  
Face-shield
- Skin and body protection : impervious clothing  
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.  
When using do not smoke.  
Wash hands before breaks and at the end of workday.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

- Appearance : liquid
- Colour : amber, clear
- Odour : mild
- Odour Threshold : no data available
- pH : 13 - 14
- Melting point/freezing point : no data available
- Boiling point : 104.44 °C
- Flash point : > 93.3 °C  
Method: closed cup
- Evaporation rate : 1
- Upper explosion limit : no data available
- Lower explosion limit : no data available
- Vapour pressure : no data available

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|                                        |                                     |
|----------------------------------------|-------------------------------------|
| Relative vapour density                | : no data available                 |
| Density                                | : 1.16 g/cm <sup>3</sup>            |
| Solubility(ies)                        |                                     |
| Water solubility                       | : soluble                           |
| 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                   | : 13.1 mm <sup>2</sup> /s (20.0 °C) |

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**SECTION 10. STABILITY AND REACTIVITY**

|                                    |                                                       |
|------------------------------------|-------------------------------------------------------|
| Reactivity                         | : Stable                                              |
| Chemical stability                 | : Stable under normal conditions.                     |
| Possibility of hazardous reactions | : No decomposition if stored and applied as directed. |
| Conditions to avoid                | : no data available                                   |
| Incompatible materials             | : Acids<br>Metals<br>Oxidizing agents                 |
| Hazardous decomposition products   | : Carbon monoxide<br>Carbon oxides                    |

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**SECTION 11. TOXICOLOGICAL INFORMATION****Acute toxicity****Product:**

|                           |                                                                                                                      |
|---------------------------|----------------------------------------------------------------------------------------------------------------------|
| Acute oral toxicity       | : Acute toxicity estimate : 3,769 mg/kg<br>Method: Calculation method                                                |
| Acute inhalation toxicity | : Acute toxicity estimate : > 40 mg/l<br>Exposure time: 4 h<br>Test atmosphere: vapour<br>Method: Calculation method |
| Acute dermal toxicity     | : Acute toxicity estimate : > 5,000 mg/kg                                                                            |

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Method: Calculation method

**Components:****2-aminoethanol:**

Acute oral toxicity : LD50 Oral mouse: 700 mg/kg

LD50 Oral rat: 1,515 mg/kg

Acute inhalation toxicity : LC50 mouse: &gt; 1.21 mg/l

**sodium hydroxide:**

Acute dermal toxicity : Acute toxicity estimate rabbit: 1,350 mg/kg

**sodium dodecylbenzenesulfonate:**

Acute oral toxicity : LD50 Oral rat: 438 mg/kg

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

Remarks: Causes skin burns.

**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****Product:**

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

**Reproductive toxicity**

no data available

**sodium xylenesulphonate:****2-aminoethanol:****tetrasodium ethylenediaminetetraacetate:****sodium hydroxide:****Alcohols, C10-14, ethoxylated:****sodium dodecylbenzenesulfonate:****STOT - single exposure**

no data available

**STOT - repeated exposure**

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no data available

**Aspiration toxicity**

no data available

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

Remarks: no data available

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**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**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  
SubstancesRemarks 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 : no data available  
information

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**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**Waste from residues : Do not dispose of waste into sewer.  
Do not contaminate ponds, waterways or ditches with  
chemical or used container.  
Dispose of in accordance with local regulations.

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Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.

**SECTION 14. TRANSPORT INFORMATION**

Transportation Regulation: 49 CFR (USA):  
UN3266, Corrosive liquid, basic, inorganic, n.o.s., (SODIUM HYDROXIDE), 8, II

Transportation Regulation: IMDG (Vessel):  
UN3266, CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S., (SODIUM HYDROXIDE), 8, II

Transportation Regulation: IATA (Cargo Air):  
UN3266, Corrosive liquid, basic, inorganic, n.o.s., (SODIUM HYDROXIDE), 8, II

Transportation Regulation: IATA (Passenger Air):  
UN3266, Corrosive liquid, basic, inorganic, n.o.s., (SODIUM HYDROXIDE), 8, II

Transportation Regulation: TDG (Canada):  
UN3266, CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S., (SODIUM HYDROXIDE), 8, II

**SECTION 15. REGULATORY INFORMATION****EPCRA - Emergency Planning and Community Right-to-Know Act****CERCLA Reportable Quantity**

| Components       | CAS-No.   | Component RQ<br>(lbs) | Calculated product RQ<br>(lbs) |
|------------------|-----------|-----------------------|--------------------------------|
| sodium hydroxide | 1310-73-2 | 1000                  | *                              |

\*: 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 Health Hazard

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

**SARA 313** : SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**California Prop 65** WARNING! This product contains a chemical known to the State of California to cause cancer.

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2,2'-iminodiethanol

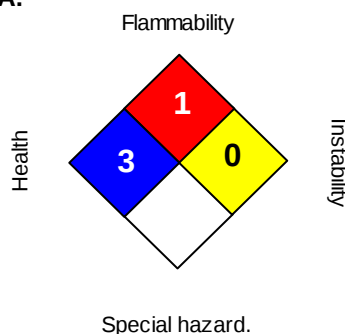
111-42-2

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

|              |                                                         |
|--------------|---------------------------------------------------------|
| <b>TSCA</b>  | On TSCA Inventory                                       |
| <b>DSL</b>   | All components of this product are on the Canadian DSL. |
| <b>AICS</b>  | On the inventory, or in compliance with the inventory   |
| <b>NZIoC</b> | Not in compliance with the inventory                    |
| <b>PICCS</b> | On the inventory, or in compliance with the inventory   |
| <b>IECSC</b> | On the inventory, or in compliance with the inventory   |

**Inventory Acronym and Validity Area Legend:**

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

**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:**

Hazard pictograms



Signal word

: **Danger:**

Hazard statements

: Causes severe skin burns and eye damage.

Precautionary statements

**Prevention:** Wash skin thoroughly after handling. Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:** IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician. 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 or doctor/ physician. Wash contaminated clothing before reuse.

**Storage:** Store locked up.

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

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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.