

**ZEP HVY DUTY FLR STRIPPER**

Version 1.3

Revision Date 11/02/2017

Print Date 05/22/2018

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Material name : ZEP HVY DUTY FLR STRIPPER

Material number : ZULFFS128

**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 : Floor Care

Note: This product is labeled as a consumer product in accordance with the United States Consumer Product Safety Commission regulations. The warnings presented below in this Safety Data Sheet (SDS) comply with the 2012 OSHA Hazard Communication Standard (GHS - Globally Harmonized System of Classification and Labeling). The requirements for the labeling and warnings of consumer products may differ from those required for GHS based hazard communication.

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

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

**GHS Classification**

Skin corrosion : Category 1

Serious eye damage : Category 1

**GHS label elements**

Hazard pictograms :



Signal word : Danger

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

Precautionary statements : **Prevention:**

**ZEP HVY DUTY FLR STRIPPER**

Version 1.3

Revision Date 11/02/2017

Print Date 05/22/2018

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): Take off immediately all contaminated clothing. Rinse skin with water/shower.

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:**

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 [%] |
|-----------------|----------|-------------------|
| 2-butoxyethanol | 111-76-2 | >= 10 - < 20      |
| 2-aminoethanol  | 141-43-5 | >= 5 - < 10       |

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.  
 Remove to fresh air.
- In case of skin contact : Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.  
 Wash off immediately with plenty of water for at least 15 minutes.  
 Remove contaminated clothing and shoes.  
 Wash contaminated clothing before reuse.  
 If skin irritation persists, call a physician.
- In case of eye contact : Small amounts splashed into eyes can cause irreversible

**ZEP HVY DUTY FLR STRIPPER**

Version 1.3

Revision Date 11/02/2017

Print Date 05/22/2018

- tissue damage and blindness.  
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
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.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.  
DO NOT induce vomiting unless directed to do so by a physician or poison control center.  
Take victim immediately to hospital.
- Most important symptoms and effects, both acute and delayed : Effects are dependent on exposure (dose, concentration, contact time).  
Effects are immediate and delayed.  
Symptoms may include blistering, irritation, burns, and pain.  
Causes severe skin burns and eye damage.  
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 : Dry chemical  
Water spray jet  
Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)
- 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  
Smoke  
Nitrogen oxides (NO<sub>x</sub>)
- 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.  
Standard procedure for chemical fires.
- Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

## ZEP HVY DUTY FLR STRIPPER

Version 1.3

Revision Date 11/02/2017

Print Date 05/22/2018

### SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Ensure adequate ventilation.  
Refer to protective measures listed in sections 7 and 8.  
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
- 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 : 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.  
To avoid spills during handling keep bottle on a metal tray.  
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.
- Materials to avoid : Store and keep away from, oxidizing agents and acids.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

| Components      | CAS-No.  | Value type (Form of exposure) | Control parameters / Permissible concentration | Basis     |
|-----------------|----------|-------------------------------|--|-----------|
| 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   | CAL PEL   |

## ZEP HVY DUTY FLR STRIPPER

Version 1.3

Revision Date 11/02/2017

Print Date 05/22/2018

|                |          |      |                               |           |
|----------------|----------|------|-------------------------------|-----------|
|                |          |      | 97 mg/m <sup>3</sup>          |           |
| 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   |
|                |          | PEL  | 3 ppm<br>8 mg/m <sup>3</sup>  | CAL PEL   |
|                |          | STEL | 6 ppm<br>15 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

: Protective gloves

Remarks

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

Eye protection

: Eye wash bottle with pure water  
Tightly fitting safety goggles  
Wear face-shield and protective suit for abnormal processing problems.

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.

**ZEP HVY DUTY FLR STRIPPER**

Version 1.3

Revision Date 11/02/2017

Print Date 05/22/2018

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

|  |   |
|--|---|
| Appearance                             | : liquid                                      |
| Colour                                 | : colourless, clear                           |
| Odour                                  | : solvent-like                                |
| Odour Threshold                        | : No data available                           |
| pH                                     | : 11.5 - 12.5                                 |
| Melting point/freezing point           | : No data available                           |
| Boiling point                          | : > 100 °C                                    |
| Flash point                            | : > 93.3 °C<br>Method: TCC                    |
| Evaporation rate                       | : < 1   |
| Upper explosion limit                  | : No data available                           |
| Lower explosion limit                  | : No data available                           |
| Vapour pressure                        | : 19 hPa (20 °C)                              |
| Relative vapour density                | : No data available                           |
| Density                                | : 1 g/cm <sup>3</sup>                         |
| Solubility(ies)                        |   |
| Water solubility                       | : soluble in cold water, soluble in hot water |
| 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  |
| Chemical stability                 | : Stable under normal conditions.   |
| Possibility of hazardous reactions | : Vapours may form explosive mixture with air.<br>No decomposition if stored and applied as directed. |
| Conditions to avoid                | : Heat, flames and sparks.  |

**ZEP HVY DUTY FLR STRIPPER**

Version 1.3

Revision Date 11/02/2017

Print Date 05/22/2018

Extremes of temperature and direct sunlight.

Incompatible materials : Acids  
Oxidizing agents

Hazardous decomposition products : Carbon oxides

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

Aggravated Medical Condition : None known.  
Symptoms of Overexposure : Effects are dependent on exposure (dose, concentration, contact time).  
Effects are immediate and delayed.  
Symptoms may include blistering, irritation, burns, and pain.

**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

**OSHA**

2-butoxyethanol 111-76-2  
No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

**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.

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

Acute oral toxicity : Acute toxicity estimate : 2,682 mg/kg  
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate : 45.85 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate : 4,585 mg/kg  
Method: Calculation method

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

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

**ZEP HVY DUTY FLR STRIPPER**

Version 1.3

Revision Date 11/02/2017

Print Date 05/22/2018

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

**2-aminoethanol:**

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

LD50 Oral Rat: 1,515 mg/kg

Acute inhalation toxicity : LC50 Mouse: > 1.21 mg/l

**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:**

Remarks: No data available

---

**SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity**



**ZEP HVY DUTY FLR STRIPPER**

Version 1.3

Revision Date 11/02/2017

Print Date 05/22/2018

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  
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

---

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

Waste from residues : Dispose of in accordance with local regulations.  
Do not contaminate ponds, waterways or ditches with  
chemical or used container.  
The product should not be allowed to enter drains, water  
courses or the soil.

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):<br>NOT REGULATED AS DANGEROUS GOODS OR HAZARDOUS MATERIAL |
|--|

|   |
|---|
| Transportation Regulation: IMDG (Vessel):<br>NOT REGULATED AS DANGEROUS GOODS OR HAZARDOUS MATERIAL |
|---|

# SAFETY DATA SHEET



## ZEP HVY DUTY FLR STRIPPER

Version 1.3

Revision Date 11/02/2017

Print Date 05/22/2018

Transportation Regulation: IATA (Cargo Air):  
NOT REGULATED AS DANGEROUS GOODS OR HAZARDOUS MATERIAL

Transportation Regulation: IATA (Passenger Air):  
NOT REGULATED AS DANGEROUS GOODS OR HAZARDOUS MATERIAL

Transportation Regulation: TDG (Canada):  
NOT REGULATED AS DANGEROUS GOODS OR HAZARDOUS MATERIAL

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** : Skin corrosion or irritation  
Serious eye damage or eye irritation

**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 16.004 %

#### California Prop. 65

**ZEP HVY DUTY FLR STRIPPER**

Version 1.3

Revision Date 11/02/2017

Print Date 05/22/2018



**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:**

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

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

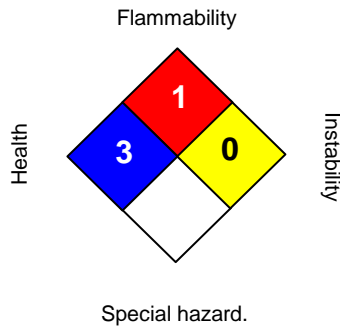
**Inventory Acronym and Validity Area Legend:**

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:**

Hazard pictograms :



Signal word :  
 Hazard statements :  
 Precautionary statements :

**Danger:**  
 Causes severe skin burns and eye damage.

**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): Take off immediately all contaminated clothing. Rinse skin with water/shower. 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

**ZEP HVY DUTY FLR STRIPPER**

Version 1.3

Revision Date 11/02/2017

Print Date 05/22/2018

reuse.

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

|                |            |
|----------------|------------|
| Version:       | 1.3        |
| Revision Date: | 11/02/2017 |
| Print Date:    | 05/22/2018 |

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.