

## ZEP BESTUFF 12-1L

Version 1.0

Revision Date 03/15/2017

Print Date 10/05/2017

## SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Material name : ZEP BESTUFF 12-1L

Material number : 106611C

**Manufacturer or supplier's details**

Company : Zep Inc.

Address : 11627 - 178 Street  
Edmonton, Alberta T5S 1N6  
Canada

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

Recommended use : Bathroom Care Maintenance

## SECTION 2. HAZARDS IDENTIFICATION

**Emergency Overview**

Appearance	liquid
Colour	opaque
	green
Odour	characteristic

**GHS Classification**Skin corrosion : Category 1A  
Serious eye damage : Category 1  
Carcinogenicity : Category 2  
Reproductive toxicity : Category 1B**GHS label elements**

Hazard pictograms :



Signal word : Danger

Hazard statements : H314 Causes severe skin burns and eye damage.  
H351 Suspected of causing cancer.  
H360 May damage fertility or the unborn child.

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Precautionary statements : **Prevention:**  
 P201 Obtain special instructions before use.  
 P202 Do not handle until all safety precautions have been read and understood.  
 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.  
 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.  
 P308 + P313 IF exposed or concerned: Get medical advice/ attention.  
 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 [%]
quartz (SiO <sub>2</sub> )	14808-60-7	>= 20 - < 30
Benzenesulfonic acid, C10-16-alkyl derivs.	68584-22-5	>= 5 - < 10
Pine oil	8002-09-3	>= 1 - < 5
2-aminoethanol	141-43-5	>= 1 - < 5
sodium borate, decahydrate	1303-96-4	>= 1 - < 5
Amides, coco, N,N-bis(hydroxyethyl)	68603-42-9	>= 1 - < 5
2,2'-iminodiethanol	111-42-2	>= 0.1 - < 1

## SECTION 4. FIRST AID MEASURES

General advice : Do not leave the victim unattended.  
 Show this safety data sheet to the doctor in attendance.  
 Move out of dangerous area.

If inhaled : If unconscious place in recovery position and seek medical advice.  
 If symptoms persist, call a physician.  
 Move to fresh air.

In case of skin contact : Take off contaminated clothing and shoes immediately.

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	<p>Get medical attention if irritation develops and persists.  Wash contaminated clothing before re-use.  Wash off immediately with plenty of water for at least 15 minutes.  If symptoms persist, call a physician.</p>
In case of eye contact	<p>: Remove contact lenses.  Protect unharmed eye.  If eye irritation persists, consult a specialist.  If easy to do, remove contact lens, if worn.  If in eyes, rinse with water for 15 minutes.</p>
If swallowed	<p>: Drink plenty of water.  Never give anything by mouth to an unconscious person.  DO NOT induce vomiting unless directed to do so by a physician or poison control center.  If symptoms persist, call a physician.  Take victim immediately to hospital.</p>
Most important symptoms and effects, both acute and delayed	<p>: Effects are immediate and delayed.  Symptoms may include blistering, irritation, burns, and pain.  Effects are dependent on exposure (dose, concentration, contact time).  Causes severe skin burns and eye damage.  Review section 2 of SDS to see all potential hazards.</p>
Notes to physician	<p>: Treat symptomatically. Symptoms may be delayed.</p>

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**SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media	<p>: Dry chemical  Water  Carbon dioxide (CO<sub>2</sub>)  Foam</p>
Unsuitable extinguishing media	<p>: High volume water jet</p>
Hazardous combustion products	<p>: Carbon dioxide (CO<sub>2</sub>)  Carbon monoxide  Nitrogen oxides (NO<sub>x</sub>)  Smoke</p>
Specific extinguishing methods	<p>: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.</p>
Further information	<p>: Standard procedure for chemical fires.  Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.</p>
Special protective equipment for firefighters	<p>: Wear self-contained breathing apparatus for firefighting if necessary.</p>

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**SECTION 6. ACCIDENTAL RELEASE MEASURES**

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- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
- Environmental precautions : Prevent further leakage or spillage if safe to do so.  
Prevent product from entering drains.  
If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up : Wipe up with absorbent material (e.g. cloth, fleece).  
Keep in suitable, closed containers for disposal.

## SECTION 7. HANDLING AND STORAGE

- Advice on safe handling : For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Wear personal protective equipment.  
Do not breathe vapours/dust.  
Avoid contact with eyes.  
Dispose of rinse water in accordance with local and national regulations.
- Conditions for safe storage : Electrical installations / working materials must comply with the technological safety standards.  
Do not seal containers hermetically.  
Keep container tightly closed in a dry and well-ventilated place.
- Materials to avoid : No materials to be especially mentioned.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
quartz (SiO <sub>2</sub> )	14808-60-7	TWA (Respirable particulates)	0.025 mg/m <sup>3</sup>	CA AB OEL
		TWA (Respirable fraction)	0.1 mg/m <sup>3</sup>	CA ON OEL
		TWAEV (respirable dust)	0.1 mg/m <sup>3</sup>	CA QC OEL
2-aminoethanol	141-43-5	STEL	6 ppm 15 mg/m <sup>3</sup>	CA AB OEL
		TWA	3 ppm 7.5 mg/m <sup>3</sup>	CA AB OEL
		TWA	3 ppm	CA BC OEL
		STEL	6 ppm	CA BC OEL

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		TWAEV	3 ppm 7.5 mg/m <sup>3</sup>	CA QC OEL
		STEV	6 ppm 15 mg/m <sup>3</sup>	CA QC OEL
		TWA	3 ppm	ACGIH
		STEL	6 ppm	ACGIH
		TWA	3 ppm 8 mg/m <sup>3</sup>	NIOSH REL
		ST	6 ppm 15 mg/m <sup>3</sup>	NIOSH REL
		TWA	3 ppm 6 mg/m <sup>3</sup>	OSHA Z-1
		STEL	6 ppm 15 mg/m <sup>3</sup>	OSHA P0
		TWA	3 ppm 8 mg/m <sup>3</sup>	OSHA P0
		PEL	3 ppm 8 mg/m <sup>3</sup>	CAL PEL
		STEL	6 ppm 15 mg/m <sup>3</sup>	CAL PEL
sodium borate, decahydrate	1303-96-4	TWA	1 mg/m <sup>3</sup>	CA AB OEL
		STEL	3 ppm	CA AB OEL
		TWAEV	5 mg/m <sup>3</sup>	CA QC OEL
2,2'-iminodiethanol	111-42-2	TWA	2 mg/m <sup>3</sup>	CA AB OEL
		TWA	2 mg/m <sup>3</sup>	CA BC OEL
		TWAEV	3 ppm 13 mg/m <sup>3</sup>	CA QC OEL
		TWA (Inhalable fraction and vapor)	1 mg/m <sup>3</sup>	ACGIH
		TWA	3 ppm 15 mg/m <sup>3</sup>	NIOSH REL
		TWA	3 ppm 15 mg/m <sup>3</sup>	OSHA P0
		PEL	0.46 ppm 2 mg/m <sup>3</sup>	CAL PEL

**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

: Safety glasses  
Ensure that eyewash stations and safety showers are close to the workstation location.

#### Skin and body protection

: Choose body protection according to the amount and

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concentration of the dangerous substance at the work place.

Hygiene measures : General industrial hygiene practice.

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**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	: liquid
Colour	: opaque green
Odour	: characteristic
Odour Threshold	: No data available
pH	: 9.5 - 10.5
Melting point/freezing point	: Not applicable
Boiling point	: 100 °C
Flash point	: does not flash
Evaporation rate	: < 1
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapour pressure	: No data available
Relative vapour density	: No data available
Density	: 1.22 g/cm <sup>3</sup> 1.22 g/cm <sup>3</sup>
Solubility(ies)	
Water solubility	: insoluble
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: not determined
Thermal decomposition	: No data available
Viscosity	
Viscosity, kinematic	: No data available No data available

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**SECTION 10. STABILITY AND REACTIVITY**

Reactivity	: Stable
Chemical stability	: Stable under normal conditions.

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Possibility of hazardous reactions	: Stable under recommended storage conditions. No hazards to be specially mentioned.
Conditions to avoid	: No data available
Incompatible materials	: Acids Oxidizing agents
Hazardous decomposition products	: Carbon dioxide (CO <sub>2</sub> ), carbon monoxide (CO), oxides of nitrogen (NO <sub>x</sub> ), dense black smoke. 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.  
Symptoms may include blistering, irritation, burns, and pain.  
Effects are dependent on exposure (dose, concentration, contact time).

**Carcinogenicity:****IARC**

Group 2B: Possibly carcinogenic to humans

Amides, coco, N,N-bis(hydroxyethyl) 68603-42-9

2,2'-iminodiethanol 111-42-2

**ACGIH**

Confirmed animal carcinogen with unknown relevance to humans

2,2'-iminodiethanol 111-42-2

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

Acute oral toxicity : Acute toxicity estimate : > 5,000 mg/kg  
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate : > 40 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate : > 5,000 mg/kg  
Method: Calculation method

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### Components:

#### **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

**quartz (SiO<sub>2</sub>):**

**Benzenesulfonic acid, C10-16-alkyl derivs.:**

**Pine oil:**

**2-aminoethanol:**

**sodium borate, decahydrate:**

**Amides, coco, N,N-bis(hydroxyethyl):**

**2,2'-iminodiethanol:**

### **STOT - single exposure**

No data available

### **STOT - repeated exposure**

No data available

### **Aspiration toxicity**

No data available

### **Further information**

#### Product:

Remarks: No data available

### Components:



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**Amides, coco, N,N-bis(hydroxyethyl):**

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- : Remarks: No data available  
octanol/water

**Components:**

**Amides, coco, N,N-bis(hydroxyethyl) :**

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

**2,2'-iminodiethanol :**

Partition coefficient: n- : Pow: 1.43  
octanol/water

**Mobility in soil**

No data available

**Other adverse effects**

No data available

**Product:**

Additional ecological : No data available  
information

**Components:**

**Amides, coco, N,N-bis(hydroxyethyl) :**

Additional ecological : No data available  
information

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**SECTION 13. DISPOSAL CONSIDERATIONS**

**Disposal methods**

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

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**SECTION 14. TRANSPORT INFORMATION**

Transportation Regulation (TDG) / Règlement Pour Le Transport (TMD): (Canada):

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NOT REGULATED AS DANGEROUS GOODS OR HAZARDOUS MATERIAL

Transportation Regulation / Règlement Pour Le Transport: IMDG (Vessel):  
NOT REGULATED AS DANGEROUS GOODS OR HAZARDOUS MATERIAL

Transportation Regulation / Règlement Pour Le Transport: IATA (Cargo Air):  
NOT REGULATED AS DANGEROUS GOODS OR HAZARDOUS MATERIAL

Transportation Regulation / Règlement Pour Le Transport: IATA (Passenger Air):  
NOT REGULATED AS DANGEROUS GOODS OR HAZARDOUS MATERIAL

Transportation Regulation / Règlement Pour Le Transport: 49 CFR (USA):  
NOT REGULATED AS DANGEROUS GOODS OR HAZARDOUS MATERIAL

The product as delivered to the customer conforms to packaging requirements for shipment by road under Transport Dangerous Goods (TDG) Canada 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.

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### SECTION 15. REGULATORY INFORMATION

This product has been classified according to the hazard criteria of the HPR and the SDS contains all of the information required by the HPR.

**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)

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### SECTION 16. OTHER INFORMATION

WHMIS - GHS Label Information:

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Hazard pictograms :



Signal word :

**Danger:**

Hazard statements :

Causes severe skin burns and eye damage. Suspected of causing cancer. May damage fertility or the unborn child.

Precautionary statements :

**Prevention:** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. 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. 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. IF exposed or concerned: Get medical advice/ attention. Wash contaminated clothing before reuse.

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

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