

ZEP BIG Z 4-1GL

Version 2.0	Revision Date 12/07/2017	Print Date 09/20/2018

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Material name	:	ZEP BIG Z 4-1GL		
Material number	:	0000000000037024		
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, dark, brown
Odour	characteristic

GHS Classification

Skin corrosion Serious eye damage	: Category 1 : Category 1
GHS label elements	
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.



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	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 a and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.	
	P305 + P351 + P338 + P310 IF IN EYES: Rinse cautious water for several minutes. Remove contact lenses, if pres and easy to do. Continue rinsing. Immediately call a POIS CENTER/doctor.	ontact lenses, if present
	P363 Wash contaminated clothing before reuse. Disposal:	
	P501 Dispose of contents/ container to disposal plant.	to an approved waste

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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

Chemical name	CAS-No.	Concentration [%]
sodium hydroxide	1310-73-2	>= 10 - < 20
sodium xylenesulphonate	1300-72-7	>= 1 - < 5
4-Nonylphenol branched, ethoxylated	127087-87-0	>= 1 - < 5
D-Glucopyranose, oligomers, decyl octyl glycosides	68515-73-1	>= 1 - < 3
Sulfonic acids, C14-16-alkane hydroxy and C14- 16-alkene, sodium salts	68439-57-6	>= 1 - < 5

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	 Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty. Wash contaminated clothing before reuse. Remove contaminated clothing and shoes. If skin irritation persists, call a physician.
In case of eye contact	 Small amounts splashed into eyes can cause irreversible tissue damage and blindness. Continue rinsing eyes during transport to hospital. Remove contact lenses. Protect unharmed eye.

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	Keep eye wide open while rinsing. If eye irritation persists, consult a s Rinse immediately with plenty of w for at least 15 minutes.	
If swallowed	swallowed : Keep respiratory tract clear. DO NOT induce vomiting unless directed to do so physician or poison control center. Never give anything by mouth to an unconsciou If symptoms persist, call a physician. 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	:	Water Carbon dioxide (CO2) 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) Carbon monoxide 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.
Special protective equipment for firefighters	:	Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions,	: Use personal protective equipment.
protective equipment and	Ensure adequate ventilation.
emergency procedures	Refer to protective measures listed in sections 7 and 8.



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Environmental precautions	: Prevent product from entering dr Prevent further leakage or spillag If the product contaminates rivers respective authorities.	ge if safe to do so.
Methods and materials for containment and cleaning up	: Soak up with inert absorbent ma acid binder, universal binder, say Keep in suitable, closed containe	vdust).

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. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.
Materials to avoid	: Do not freeze. Oxidizing agents

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
sodium hydroxide	1310-73-2	С	2 mg/m3	ACGIH
		С	2 mg/m3	NIOSH REL
		TWA	2 mg/m3	OSHA Z-1
		С	2 mg/m3	OSHA P0
		С	2 mg/m3	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



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	that exposures are within recomm	ended exposure guidelines.
Hand protection Material Remarks	 Protective gloves The suitability for a specific workpl with the producers of the protective 	
Eye protection	 Access to clean water to rinse eye include: eye wash stations or show with pure water. Tightly fitting safety goggles Wear face-shield and protective su problems. 	vers, or eye wash bottles
Skin and body protection	: Impervious clothing Choose body protection according concentration of the dangerous su	
Hygiene measures	: When using do not eat or drink. When using do not smoke. Wash hands before breaks and at	the end of workday.

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Colour	: clear, dark, brown
Odour	: characteristic
Odour Threshold	: No data available
рН	: 13.0 - 13.5
Melting point/freezing point	: Not applicable
Boiling point	: 104.44 °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	: 1.212 g/cm3
Solubility(ies)	
Water solubility	: soluble in cold water, soluble in hot water
Partition coefficient: n- octanol/water	: No data available



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Auto-ignition temperature	: not determined	
Thermal decomposition	: No data available	
Viscosity		
Viscosity, kinematic	: 10.9 mm2/s (20 °C)	

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	: Extremes of temperature and direct sunlight.
Incompatible materials	: Reducing agents Strong acids and oxidizing agents
Hazardous decomposition products	: Carbon oxides Sulphur oxides

SECTION 11. TOXICOLOGICAL INFORMATION

Potential Health Effects

Aggravated Medical Condition Symptoms of Overexposure	 None known. Effects are dependent on exposure (dose, concentration, contact time). Effects are immediate and delayed. Symptoms may include blistering, irritation, burns, and pain.
0	
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	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
OSHA	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.



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Acute toxicity		
Product:		
Acute dermal toxicity	: Acute toxicity estimate : > 5,000 mg Method: Calculation method	g/kg
Components:		
sodium hydroxide: Acute dermal toxicity	: Acute toxicity estimate Rabbit: 1,35	50 mg/kg
4-Nonylphenol branched, e Acute oral toxicity	ethoxylated: : LD50 Oral Rat: 16,000 mg/kg	
Acute dermal toxicity	: LD50 Rabbit: 2,573 mg/kg	
Skin corrosion/irritation		
Product:		
Remarks: Extremely corrosiv	ve and destructive to tissue.	
Serious eye damage/eye irritati	on	
Product:		
Remarks: May cause irrever	sible eye damage.	
Respiratory or skin sensitisation	on	
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:		



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Remarks: No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

No data available	
Persistence and degradability	
No data available Bioaccumulative potential	
Product:	
Partition coefficient: n- :	Remarks: No data available
Mobility in soil	
No data available	
Other adverse effects	
No data available <u>Product:</u>	
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
mornation	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Toxic to aquatic life.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods	
Waste from residues	 The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of in accordance with local regulations.
Contaminated packaging	: Empty remaining contents. Dispose of as unused product.



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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): This material is not classified.

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

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)
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	: 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.



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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		
	This product does not contain any California to cause cancer, birth d reproductive harm.	

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

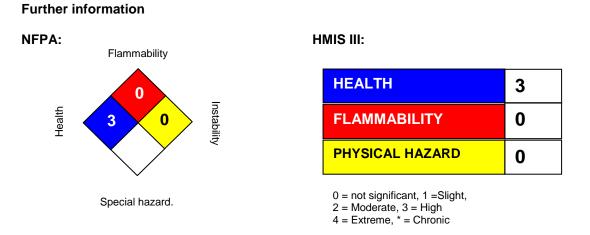
DSL	All components of this product are on the Canadian DSL
TSCA	On TSCA Inventory

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



OSHA - GHS Label Information:





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Precautionary statements	: Prevention: Wash skin thoroughly after handling. Weat clothing/ eye protection/ face protection. Response: IF SWALLOWED: Rinse mouth. Do NOT in hair): Take off immediately all contaminated clothing. F INHALED: Remove person to fresh air and keep comfor call a POISON CENTER/doctor. IF IN EYES: Rinse ca minutes. Remove contact lenses, if present and easy to Immediately call a POISON CENTER/doctor. Wash co reuse.	nduce vomiting. IF ON SKIN (or Rinse skin with water/shower. IF ortable for breathing. Immediately utiously with water for several o do. Continue rinsing.
	Disposal: Dispose of contents/ container to an approved waste disposal plant.	

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