

Version 1.4		Revision Date 02/05/2018	Print Date 10/09/2018
SECTION 1. PRODUCT AND	COMP		
Material name	:	ZEPRO HVY-DTY CNCRT&MSN	RY FLR CLNR 4-1GL
Material number	:	R03324	
Manufacturer or supplier's details			
Company	:	Zep Inc.	
Address	:	350 Joe Frank Harris Parkway, S Emerson, GA 30137	E

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	:	Cleaner
		Floor Care

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance	liquid
Colour	red, clear
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



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	induce vomiting. P303 + P361 + P353 IF ON SKII immediately all contaminated clo water/shower. P304 + P340 + P310 IF INHALE and keep comfortable for breathi POISON CENTER/doctor. P305 + P351 + P338 + P310 IF water for several minutes. Remo and easy to do. Continue rinsing CENTER/doctor. P363 Wash contaminated clothin Disposal: P501 Dispose of contents/contail regulation.	bthing. Rinse skin with D: Remove person to fresh air ing. Immediately call a IN EYES: Rinse cautiously with ove contact lenses, if present I. Immediately call a POISON ing before reuse.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

Chemical name	CAS-No.	Concentration [%]
2-(2-butoxyethoxy)ethanol	112-34-5	>= 5 - < 10
sodium hydroxide	1310-73-2	>= 3 - < 5
sodium xylenesulphonate	1300-72-7	>= 1 - < 5
Alcohols, C9-11, ethoxylated	68439-46-3	>= 3 - < 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 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 tissue damage and blindness. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses.



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	Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a sp	pecialist.
If swallowed	: Keep respiratory tract clear. DO NOT induce vomiting unless dir physician or poison control center. Never give anything by mouth to ar If symptoms persist, call a physician Take victim immediately to hospital	n unconscious person. n.
Most important symptoms and effects, both acute and delayed	 Effects are dependent on exposure contact time). Effects are immediate and delayed. Symptoms may include blistering, in Causes severe skin burns and eye Review section 2 of SDS to see all 	rritation, burns, and pain. damage.
Notes to physician	: Treat symptomatically. Symptoms	may be delayed.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	Dry chemical	
Unsuitable extinguishing media	High volume water jet	
Specific hazards during firefighting	Do not allow run-off from fire fighting to enter drains courses.	or water
Hazardous combustion products	Carbon dioxide (CO2) Carbon monoxide Smoke Sulphur oxides	
Specific extinguishing methods	Use extinguishing measures that are appropriate to circumstances and the surrounding environment.	local
Further information	Standard procedure for chemical fires.	
	Collect contaminated fire extinguishing water separ must not be discharged into drains. Fire residues and contaminated fire extinguishing w be disposed of in accordance with local regulations	ater must
Special protective equipment for firefighters	Wear self-contained breathing apparatus for firefigh necessary.	iting if

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions,	: Use personal protective equipment.
protective equipment and	Ensure adequate ventilation.
emergency procedures	Remove all sources of ignition.
	Evacuate personnel to safe areas.



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Environmental precautions	: Prevent product from entering drain Prevent further leakage or spillage If the product contaminates rivers a respective authorities.	if safe to do so.
Methods and materials for containment and cleaning up	 Neutralise with acid. 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	: Do not store near acids. Store and keep away from bases and alkalies.
Storage temperature	: 5 - 40 °C

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-(2-butoxyethoxy)ethanol	112-34-5	TWA (Inhalable fraction and vapor)	10 ppm	ACGIH
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



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Personal protective equip	nent		
Respiratory protection	ventilation is provided or expos	: 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 work with the producers of the protection 	•	
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. 		
Skin and body protection	: Impervious clothing Choose body protection accord concentration of the dangerous		
Hygiene measures	When using do not smoke.	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	: red, clear
Odour	: characteristic
Odour Threshold	: No data available
рН	: 13 - 14
Melting point/freezing point	: No data available
Boiling point	: 104.44 °C
Flash point	: > 100 °C
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	: 1.060 g/cm3
Solubility(ies)	
Water solubility	: soluble in cold water, soluble in hot water



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Partition coefficient: n- octanol/water	: No data available	
Auto-ignition temperature	: not determined	
Thermal decomposition	: No data available	
Viscosity		
Viscosity, kinematic	: 5.5 mm2/s (20 °C)	

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: Stable
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: Stable under recommended storage conditions.
Conditions to avoid	: No data available
Incompatible materials	: Acids Metals Oxidizing agents
Hazardous decomposition products	 Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke). Sulphur oxides

SECTION 11. TOXICOLOGICAL INFORMATION

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.



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NTP	No component of this product present equal to 0.1% is identified as a known by NTP.	
Acute toxicity		
Product:		
Acute oral toxicity	: Acute toxicity estimate : > 5,000 mg Method: Calculation method	g/kg
Components:		
sodium hydroxide: Acute dermal toxicity	: Acute toxicity estimate Rabbit: 1,35	i0 mg/kg
Alcohols, C9-11, ethoxyla Acute oral toxicity	ted: : LD50 Oral Rat: 1,400 mg/kg	
kin corrosion/irritation		
Product:		
Remarks: Extremely corros	ive and destructive to tissue.	
Serious eye damage/eye irrita	tion	
Product:		
Remarks: May cause irreve	rsible eye damage.	
Respiratory or skin sensitisati	on	
lo data available		
Serm cell mutagenicity		
lo data available		
Carcinogenicity		
lo data available		
Reproductive toxicity		
lo data available		
STOT - single exposure		
lo data available		
STOT - repeated exposure		
lo data available		
spiration toxicity		
lo data available		
urther information		



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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- octanol/water <u>Components:</u> 2-(2-butoxyethoxy)ethanol : Partition coefficient: n- octanol/water	: Remarks: No data available : Pow: 1
Mobility in soil	
No data available	
Other adverse effects	
No data available <u>Product:</u>	
Regulation Remarks	40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances 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	 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.
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): 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

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		: The following components are subject to reporting levels established by SARA Title III, Section 313:	
	2-(2-butoxyethoxy)ethanol 2-butoxyethanol	112-34-58.8708 %111-76-20.1351 %	
California Prop. 65			
	•	This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.	

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

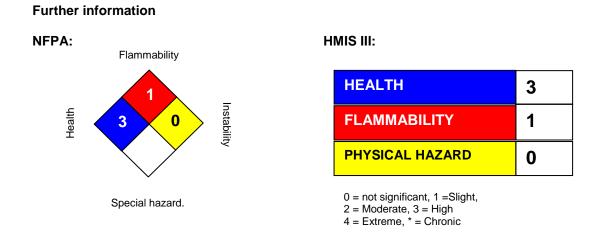
DSL	All components of this product are on the Canadian DSL
TSCA	On TSCA Inventory

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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Hazard statements Precautionary statements	: Causes severe skin burns and eye damage.	
	Prevention: Wash skin thoroughly after handling. Wear clothing/ eye protection/ face protection. Response: IF SWALLOWED: Rinse mouth. Do NOT in hair): Take off immediately all contaminated clothing. Ri INHALED: Remove person to fresh air and keep comfor call a POISON CENTER/doctor. IF IN EYES: Rinse cau minutes. Remove contact lenses, if present and easy to Immediately call a POISON CENTER/doctor. Wash con reuse.	duce vomiting. IF ON SKIN (or inse skin with water/shower. IF rtable for breathing. Immediately itiously with water for several do. Continue rinsing.
	Disposal: Dispose of contents/container in accordance	with local regulation.

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