

Version 4.0	Revision Date 07/20/2018	Print Date 10/30/2019
SECTION 1. PRODUCT AND	COMPANY IDENTIFICATION	
Material name	: ZEP CALCIUM LIME & RST STN	REMOVER CON
Material number	: ZUCAL128	

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	:	Bathroom Care Maintenance
		Cleaner

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	light yellow
Odour	pungent

### **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.



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Precautionary statements	<ul> <li>Prevention:</li> <li>P264 Wash skin thoroughly after P280 Wear protective gloves/ proprotection/ face protection.</li> <li>Response:</li> <li>P301 + P330 + P331 IF SWALLO induce vomiting.</li> <li>P303 + P361 + P353 IF ON SKII immediately all contaminated clowater/shower.</li> <li>P304 + P340 + P310 IF INHALE and keep comfortable for breathin POISON CENTER/doctor.</li> <li>P305 + P351 + P338 + P310 IF I water for several minutes. Remo and easy to do. Continue rinsing CENTER/doctor.</li> <li>P363 Wash contaminated clothin Storage:</li> <li>P405 Store locked up.</li> <li>Disposal:</li> <li>P501 Dispose of contents/contail regulation.</li> </ul>	otective clothing/ eye OWED: Rinse mouth. Do NOT N (or hair): Take off othing. Rinse skin with D: Remove person to fresh air ing. Immediately call a IN EYES: Rinse cautiously with ove contact lenses, if present . Immediately call a POISON ng before reuse.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### Hazardous components

Chemical name	CAS-No.	Concentration [%]
urea hydrochloride	506-89-8	>= 10 - < 20
2-hydroxyethanoic acid	79-14-1	>= 1 - < 3
citric acid	77-92-9	>= 1 - < 3
Alcohols, C9-11, ethoxylated	68439-46-3	>= 1 - < 3

The exact percentages of disclosed substances are withheld as trade secrets.

### **SECTION 4. FIRST AID MEASURES**

General advice	<ul> <li>Move out of dangerous area.</li> <li>Get medical attention immediately.</li> <li>Show this safety data sheet to the doctor in attendance.</li> <li>Do not leave the victim unattended.</li> </ul>
If inhaled	<ul> <li>If unconscious, place in recovery position and seek medical advice.</li> <li>If symptoms persist, call a physician.</li> <li>Move to fresh air.</li> </ul>
In case of skin contact	: Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.



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	Take off contaminated clothing and shoes immediately. Wash contaminated clothing before re-use. If skin irritation persists, call a physician. Wash off immediately with plenty of water for at least 15 minutes. Thoroughly clean shoes before reuse.	
In case of eye contact	: Small amounts splashed into eyes tissue damage and blindness. Continue rinsing eyes during trans Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. Rinse immediately with plenty of w for at least 15 minutes.	sport to hospital.
If swallowed	<ul> <li>Keep respiratory tract clear. Never give anything by mouth to a If symptoms persist, call a physicia DO NOT induce vomiting unless d physician or poison control center. Take victim immediately to hospita</li> </ul>	an. lirected to do so by a
Most important symptoms and effects, both acute and delayed	<ul> <li>Effects are dependent on exposur contact time).</li> <li>Effects are immediate and delayed Symptoms may include blistering, Causes severe skin burns and eye Review section 2 of SDS to see al</li> </ul>	d. irritation, burns, and pain. e damage.
Notes to physician	: Treat symptomatically. Symptoms	s may be delayed.

### **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media	:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
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 Nitrogen oxides (NOx) Chlorine compounds
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



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	be disposed of in accordance with local regulations. Standard procedure for chemical fires.		0
Special protective equipment for firefighters	: Wear self-contain necessary.	ned breathing appar	atus for firefighting if

## SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	: Use personal protective equipment.
Environmental precautions	: 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	<ul> <li>Do not breathe vapours/dust.</li> <li>Avoid contact with skin and eyes.</li> <li>For personal protection see section 8.</li> <li>Smoking, eating and drinking should be prohibited in the application area.</li> <li>To avoid spills during handling keep bottle on a metal tray.</li> <li>Dispose of rinse water in accordance with local and national regulations.</li> </ul>
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	Oxidizing agents Keep away from metals. Store and keep away from bases and alkalies.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Engineering measures : effective ventilation in all processing areas

## Personal protective equipment

Respiratory protection : Use respiratory protection unless adequate local exhaust



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		ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.	
Hand protection Material Remarks	<ul><li>Protective gloves</li><li>The suitability for a specific workpla with the producers of the protective</li></ul>		
Eye protection	<ul> <li>Access to clean water to rinse eyes include: eye wash stations or show with pure water.</li> <li>Tightly fitting safety goggles</li> <li>Wear face-shield and protective sup problems.</li> </ul>	ers, or eye wash bottles	
Skin and body protection	: Impervious clothing Choose body protection according concentration of the dangerous sub		
Hygiene measures	: When using do not eat or drink. When using do not smoke. Wash hands before breaks and at t	he end of workday.	

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Colour	:	light yellow
Odour	:	pungent
Odour Threshold	:	No data available
рН	:	< 1
Melting point/freezing point	:	Not applicable
Boiling point	:	100 °C
Flash point	:	
		does not flash
Evaporation rate	:	No data available
Upper explosion limit	:	No data available
Lower explosion limit	:	No data available
Vapour pressure	:	No data available
Relative vapour density	:	No data available
Density	:	1.067 g/cm3
Solubility(ies)		
Water solubility	:	soluble
Solubility in other solvents	:	not determined



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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	: No data available	

## 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	: Oxidizing agents Organic materials Metals Bases	
Hazardous decomposition products	<ul> <li>Carbon oxides Chlorine Nitrogen oxides (NOx) Sulphur oxides Ammonia gas may be liberated at high temperatures.</li> </ul>	

## SECTION 11. TOXICOLOGICAL INFORMATION

## **Potential Health Effects**

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



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OSHA	No component of this product present equal to 0.1% is on OSHA's list of reg	ulated carcinogens.	
NTP	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinoger by NTP.		
Acute toxicity			
Product:			
Acute oral toxicity	: Acute toxicity estimate : 4,197 mg/ł Method: Calculation method	kg	
Acute dermal toxicity	: Acute toxicity estimate : > 5,000 mg Method: Calculation method	g/kg	
Components:			
citric acid:			
Acute oral toxicity	: LD50 Oral Rat: 5,400 mg/kg		
Acute dermal toxicity	: LD50 Dermal Rabbit: > 2,000 mg/k	g	
Alcohols, C9-11, ethoxyla Acute oral toxicity	ted: : LD50 Oral Rat: 1,400 mg/kg		
Skin corrosion/irritation			
Product:			
Remarks: Extremely corros	ive and destructive to tissue.		
Serious eye damage/eye irrita	tion		
Product:			
Remarks: May cause irreve	ersible eye damage.		
Respiratory or skin sensitisati	ion		
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			

No data available



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### Aspiration toxicity

No data available

#### **Further information**

#### Product:

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-hydroxyethanoic acid : Partition coefficient: n- octanol/water	: Remarks: No data available : log Pow: -1.11
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

## SECTION 13. DISPOSAL CONSIDERATIONS

### **Disposal methods**

Waste from residues

: Do not dispose of waste into sewer.



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	Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of in accordance with local regulations.	
Contaminated packaging	<ul> <li>Empty remaining contents.</li> <li>Dispose of as unused product.</li> <li>Do not re-use empty containers.</li> </ul>	

## SECTION 14. TRANSPORT INFORMATION

Transportation Regulation: 49 CFR (USA): UN3264, Corrosive liquid, acidic, inorganic, n.o.s., (SULFAMIC ACID), 8, II

Transportation Regulation: IMDG (Vessel): UN3264, CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S., (SULFAMIC ACID), 8, II

Transportation Regulation: IATA (Cargo Air): UN3264, Corrosive liquid, acidic, inorganic, n.o.s., (SULFAMIC ACID), 8, II

Transportation Regulation: IATA (Passenger Air): UN3264, Corrosive liquid, acidic, inorganic, n.o.s., (SULFAMIC ACID), 8, II

Transportation Regulation: TDG (Canada): UN3264, CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S., (SULFAMIC ACID), 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)
hydrochloric acid	7647-01-0	5000	*

\*: 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.



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SARA 311/312 Hazards	: Skin corrosion or irritation Serious eye damage or eye irritation	
SARA 302	: No chemicals in this material are sub requirements of SARA Title III, Section	, , ,
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 c California to cause cancer, birth de reproductive harm.	

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

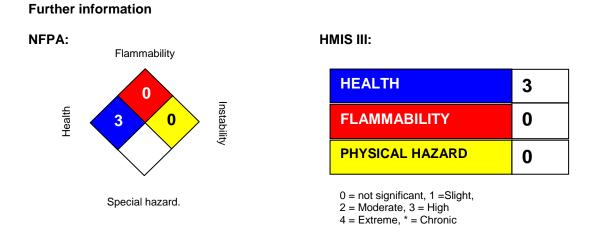
TSCA	On TSCA Inventory
DSL	All components of this product are on the Canadian DSL

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**



## **OSHA - GHS Label Information:**



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Hazard pictograms		
Signal word Hazard statements Precautionary statements	<ul> <li>Danger:</li> <li>Causes severe skin burns and eye damage.</li> <li>Prevention: Wash skin thoroughly after handling. Wear protective gloves/ protective clothing/ eye protection/ face protection.</li> <li>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 reuse.</li> <li>Storage: Store locked up.</li> <li>Disposal: Dispose of contents/container in accordance with local regulation.</li> </ul>	

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