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CISION	1.0		

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SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Material name	:	ZEP VERDIZA 4-1GL	
Material number	:	0000000000125423	
Manufacturer or supplier's details			
Company	:	Zep Inc.	
Address	:	1310 Seaboard Industrial Blvd., NW Atlanta, GA 30318	
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

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Physical state	liquid
Colour	green
Odour	mint-like, pleasant

GHS Classification

Oxidizing liquids Skin corrosion Serious eye damage	: Category 1 : Category 1A : Category 1
GHS Label element	
Hazard pictograms	
Signal word	: Danger
Hazard statements	: H271 May cause fire or explosion; strong oxidiser. H314 Causes severe skin burns and eye damage.
Precautionary statements	 Prevention: P210 Keep away from heat. P220 Keep/Store away from clothing/ combustible materials. P221 Take any precaution to avoid mixing with combustibles. P264 Wash skin thoroughly after handling. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.



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	P283 Wear fire/ flame resistant/ re	etardant clothing.
	Response:	ç
	P301 + P330 + P331 IF SWALLO	WED: Rinse mouth. Do NO
	induce vomiting.	(or bair): Pomovo/ Tako off
	P303 + P361 + P353 IF ON SKIN immediately all contaminated clot	. ,
	shower.	ning. Kinse skin with water
	P304 + P340 + P310 IF INHALED and keep at rest in a position com Immediately call a POISON CENT P305 + P351 + P338 + P310 IF IN	fortable for breathing. ER or doctor/ physician. I EYES: Rinse cautiously w
	water for several minutes. Remove and easy to do. Continue rinsing. CENTER or doctor/ physician.	
	P306 + P360 IF ON CLOTHING:	rinse immediately
	contaminated clothing and skin wi	
	removing clothes.	
	P363 Wash contaminated clothing P370 + P378 In case of fire: Use of	
	alcohol-resistant foam for extinction	
	P371 + P380 + P375 In case of m	
	Evacuate area. Fight fire remotely	due to the risk of explosion
	Storage:	
	P405 Store locked up. Disposal:	
	P501 Dispose of contents/contain regulation.	er in accordance with local
Potential Health Effects	5	
Carcinogenicity:		
IARC	No component of this product present equal to 0.1% is identified as probable	-
	human carcinogen by IARC.	
ACGIH	Confirmed animal carcinogen with un humans	
OSHA	hydrogen peroxide	7722-84-1
USHA	No component of this product present equal to 0.1% is identified as a carcin	5
NTP	carcinogen by OSHA. No component of this product present	at levels greater than or
	equal to 0.1% is identified as a known	

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

Chemical Name	CAS-No.	Concentration [%]
hydrogen peroxide	7722-84-1	>= 5 - < 10
1-(1-methyl-2-propoxyethoxy)propan-2-ol	29911-27-1	>= 1 - < 5
Alcohols, C12-16, ethoxylated	68551-12-2	>= 1 - < 5



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dodecyldimethylamine oxide	1643-20-5	>= 1 - < 5
SECTION 4. FIRST AID MEASURES		
General advice :	Move out of dangerous area. Consult a physician. Show this safety data sheet to the doct Do not leave the victim unattended.	or in attendance.
If inhaled :	If unconscious place in recovery position advice. If symptoms persist, call a physician.	on and seek medical
In case of skin contact :	Immediate medical treatment is necess wounds from corrosion of the skin heal difficulty. If on skin, rinse well with water. If on clothes, remove clothes.	
In case of eye contact :	Small amounts splashed into eyes can tissue damage and blindness. In the case of contact with eyes, rinse i of water and seek medical advice. Continue rinsing eyes during transport Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a speci	mmediately with plenty to hospital.
If swallowed :	Keep respiratory tract clear. Do NOT induce vomiting. Do not give milk or alcoholic beverages Never give anything by mouth to an un- If symptoms persist, call a physician. Take victim immediately to hospital.	

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	Carbo	nol-resistant foam on dioxide (CO2) :hemical
Unsuitable extinguishing media	: High	volume water jet
Specific hazards during firefighting	: Do n cours	ot allow run-off from fire fighting to enter drains or water ses.
Hazardous combustion products		on dioxide (CO2) on monoxide se
Specific extinguishing methods		extinguishing measures that are appropriate to local mstances and the surrounding environment.
Further information	: Colle	ct contaminated fire extinguishing water separately. This



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	must not be discharged into drains Fire residues and contaminated fire be disposed of in accordance with For safety reasons in case of fire, separately in closed containments. Use a water spray to cool fully close	e extinguishing water must local regulations. cans should be stored
Special protective equipment for firefighters	: Wear self-contained breathing app necessary.	paratus for firefighting if

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Use personal protective equipment. Evacuate personnel to safe 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	:	Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

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	 Prevent unauthorized access. 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	: Keep away from oxidising agents and strongly acid or alkaline materials.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters



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Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
hydrogen peroxide	7722-84-1	TWA	1 ppm	ACGIH
		TWA	1 ppm 1.4 mg/m3	NIOSH REL
		TWA	1 ppm 1.4 mg/m3	OSHA Z-1
		TWA	1 ppm 1.4 mg/m3	OSHA P0

Personal protective equipme	ent
Respiratory protection	: No personal respiratory protective equipment normally required. Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.
Hand protection 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.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Colour	: green
Odour	: mint-like, pleasant
Odour Threshold	: no data available
рН	: 4.5 - 5
Melting point/freezing point	: no data available
Boiling point	: 104.4 °C
Flash point	: > 93.3 °C Method: closed cup



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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	: 1.07 g/cm3	
Solubility(ies)		
Water solubility	: soluble in cold water	
Partition coefficient: n- octanol/water	: no data available	
Auto-ignition temperature	: not determined	
Thermal decomposition	: no data available	
Viscosity		
Viscosity, kinematic	: 4.2 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	: Heat, flames and sparks.
Incompatible materials	 Flammable materials Cyanides Oxidizing agents Reducing agents
Hazardous decomposition products	: Risk of decomposition.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity Product: Acute oral toxicity : Acute toxicity estimate : > 5,000 mg/kg Method: Calculation method Skin corrosion/irritation Product:



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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

hydrogen peroxide: 1-(1-methyl-2-propoxyethoxy)propan-2-ol: Alcohols, C12-16, ethoxylated: dodecyldimethylamine oxide:

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

no data available

Persistence and degradability

no data available Bioaccumulative potential

Product:

Partition coefficient: noctanol/water

: Remarks: no data available

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<u>Components:</u> 1-(1-methyl-2-propoxyethoxy Partition coefficient: n- octanol/water		
Mobility in soil		
no data available		
Other adverse effects		
no data available <u>Product:</u>		
Regulation	40 CFR Protection of Environm Stratospheric Ozone - CAA Sec Substances	
Remarks	This product neither contains, r with a Class I or Class II ODS a Clean Air Act Section 602 (40 0 + B).	as defined by the U.S.
Additional ecological information	: no data available	

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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. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.

SECTION 14. TRANSPORT INFORMATION

International regulation

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.



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National Regulations

49 CFR

Not regulated as a dangerous good

Special precautions for user

not applicable

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)
orthophosphoric acid	7664-38-2	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.

SARA 311/312 Hazards	:	Fire Hazard Acute Health Hazard
SARA 302	:	SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA 313	:	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 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:

TSCA	On TSCA Inventory
DSL	This product contains one or several components that are not on the
	Canadian DSL nor NDSL.
AICS	Not in compliance with the inventory
NZIoC	Not in compliance with the inventory
PICCS	Not in compliance with the inventory
IECSC	Not in compliance with the inventory

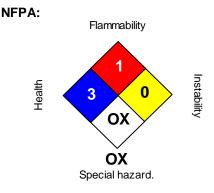
Inventory Acronym and Validity Area Legend:

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIOC (New Zealand), PICCS (Philippines), TSCA (USA)



SECTION 16. OTHER INFORMATION

Further information



OSHA GHS Label Information:

HMIS III:

HEALTH	3
FLAMMABILITY	1
PHYSICAL HAZARD	3

0 = not significant, 1 =Slight, 2 = Moderate, 3 = High 4 = Extreme, * = Chronic

Hazard pictograms	
Signal w ord	: Danger:
Hazard statements	: May cause fire or explosion; strong oxidiser. Causes severe skin burns and eye damage.
Precautionary statements	
	 Prevention: Keep aw ay from heat. Keep/Store aw ay from clothing/ combustible materials. Take any precaution to avoid mixing with combustibles. Wash skin thoroughly after handling. Wear protective gloves/ protective clothing/ eye protection/ face protection. Wear fire/ flame resistant/ retardant clothing. Response: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ show er. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician. 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 or doctor/ physician. IF ON CLOTHING: rinse immediately contaminated clothing before reuse. In case of fire: Use dry sand, dry chemical or alcohol-resistant foamfor extinction. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion. Storage : Store locked up. Disposal: Dispose of contents/container in accordance with local regulation.

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.



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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.