

Version 3.0	Revision Date 01/22/2018	Print Date 06/16/2023

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Material name	:	ZEP BIG ORANGE_5GL			
Material number	:	00000000000041535			
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 : Degreaser

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance	liquid
Colour	clear, orange
Odour	strong

GHS Classification

Flammable liquids Skin irritation Eye irritation Skin sensitisation Aspiration hazard	 Category 3 Category 2 Category 2A Category 1 Category 1
GHS label elements	
Hazard pictograms	
Signal word	: Danger
Hazard statements	 H226 Flammable liquid and vapour. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation.



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Precautionary statements	 Prevention: P210 Keep away from heat/spark. No smoking. P233 Keep container tightly close P240 Ground/bond container and P241 Use explosion-proof electric equipment. P242 Use only non-sparking tools P243 Take precautionary measur P261 Avoid breathing dust/ fume/ P264 Wash skin thoroughly after P272 Contaminated work clothing the workplace. P280 Wear protective gloves/ eye Response: P301 + P310 IF SWALLOWED: In CENTER/doctor. P303 + P361 + P353 IF ON SKIN immediately all contaminated clot water/shower. P305 + P351 + P338 IF IN EYES for several minutes. Remove cont easy to do. Continue rinsing. P331 Do NOT induce vomiting. P333 + P313 If skin irritation or ra advice/ attention. P362 Take off contaminated cloth P370 + P378 In case of fire: Use alcohol-resistant foam to extinguis Storage: P403 + P235 Store in a well-ventil Disposal: P501 Dispose of contents/contain regulation. 	ed. receiving equipment. cal/ventilating/ lighting s. res against static discharge. gas/mist/vapours/ spray. handling. g should not be allowed out of e protection/ face protection. mmediately call a POISON I (or hair): Take off thing. Rinse skin with : Rinse cautiously with water tact lenses, if present and ash occurs: Get medical asts: Get medical advice/ hing and wash before reuse. dry sand, dry chemical or sh. lated place. Keep cool.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

Chemical name	CAS-No.	Concentration [%]
d-limonene	5989-27-5	>= 70 - < 90
4-Nonylphenol branched, ethoxylated	127087-87-0	>= 5 - < 10
p-mentha-1,4-diene	99-85-4	>= 1 - < 5
linalool	78-70-6	>= 1 - < 5
7-methyl-3-methyleneocta-1,6-diene	123-35-3	>= 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.



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	Show this safety data sheet to the Do not leave the victim unattended	
If inhaled	 If unconscious, place in recovery p advice. If symptoms persist, call a physicial 	
In case of skin contact	: In case of contact, immediately flu of water. If skin irritation persists, call a physical	
In case of eye contact	 Flush eyes with water at least 15 r attention if eye irritation develops Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. 	or persists.
If swallowed	: Clean mouth with water and drink Keep respiratory tract clear. Do not give milk or alcoholic bever Never give anything by mouth to a If symptoms persist, call a physicia DO NOT induce vomiting unless d physician or poison control center.	ages. an unconscious person. an. lirected to do so by a
Most important symptoms and effects, both acute and delayed	 Effects are immediate and delayed Symptoms may include irritation, r Causes skin irritation. Causes serious eye irritation. Review section 2 of SDS to see all 	edness, pain, and rash.
Notes to physician	: Treat symptomatically. Symptoms	s may be delayed.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
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
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 For safety reasons in case of fire, separately in closed containments Use a water spray to cool fully closed	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. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low 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.	۱
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	Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work rooms Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with local and national regulations. Persons susceptible to skin sensitisation problems or asthma allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.	a,
Conditions for safe storage	No smoking. 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.	Ł
Materials to avoid	Keep away from oxidizing agents and strongly acid or alkalin materials.	e



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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type	Control	Basis
		(Form of	parameters /	
		exposure)	Permissible	
			concentration	
d-limonene	5989-27-5	TWA	30 ppm	US WEEL
Engineering measures	: effective ver	ntilation in all pro	cessing areas	
Personal protective equipme	ent			
Respiratory protection	: In case of ir equipment.	nsufficient ventila	tion, wear suitable re	spiratory
Hand protection				
Material Remarks			workplace should be be	discussed
Eye protection		g safety goggles shield and protec	tive suit for abnormal	processing
Skin and body protection		ly protection acc	ording to the amount	
Hygiene measures	When using	do not eat or dr do not smoke. before breaks	ink. and at the end of worl	kday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Colour	: clear, orange
Odour	: strong
Odour Threshold	: No data available
рН	: Not applicable
Melting point/freezing point	: No data available
Boiling point	: 170 °C
Flash point	: 53.9 °C Method: closed cup



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ata available
ata available
3 hPa
ata available
4 g/cm3
sifiable
applicable
ata available
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ata available
nm2/s (20 °C)

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: Stable	
Chemical stability	: Stable under normal conditions.	
Possibility of hazardous reactions	: Vapours may form explosive mixture with air. No decomposition if stored and applied as directed	
Conditions to avoid	: Extremes of temperature and direct sunlight. Heat, flames and sparks.	
Incompatible materials	: Acids Oxidizing agents	
Hazardous decomposition products	 Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke). Nitrogen oxides (NOx) 	

SECTION 11. TOXICOLOGICAL INFORMATION

Potential Health Effects

Aggravated	Medical	:	None known.
Condition			



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Product: Acute oral toxicity : Acute toxicity estimate : > 5,000 mg/kg Method: Calculation method Acute dermal toxicity : Acute toxicity estimate : > 5,000 mg/kg Method: Calculation method Acute dermal toxicity : Acute toxicity estimate : > 5,000 mg/kg Method: Calculation method <i>Components:</i> . Acute oral toxicity : LD50 Oral Rat: 4,400 mg/kg Acute dermal toxicity : LD50 Dermal Rabbit: > 5,000 mg/kg Acute oral toxicity : LD50 Oral Rat: 16,000 mg/kg Acute oral toxicity : LD50 Rabbit: 2,573 mg/kg Acute oral toxicity : LD50 Oral Rat: > 5,000 mg/kg Acute oral toxicity : LD50 Oral Rat: > 5,000 mg/kg Acute oral toxicity : LD50 Rabbit: 2,573 mg/kg Acute oral toxicity : LD50 Oral Rat: > 5,000 mg/kg Acute oral toxicity : LD50 Dermal Rabbit: > 5,000 mg/kg Acute oral toxicity : LD50 Dermal Rabbit: > 5,000 mg/kg Acute dermal toxicity : LD50 Dermal Rabbit: > 5,000 mg/kg Broduct: : Remarks: Irritating to skin.	Version 3.0	Revision Date 01/22/2018	Print Date 06/16/2023
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 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 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 identified as a known or anticipated carcinogen by NTP. Acute toxicity Product: Acute oral toxicity : Acute toxicity estimate : > 5,000 mg/kg Method: Calculation method Acute dermal toxicity : Acute toxicity estimate : > 5,000 mg/kg Method: Calculation method Acute oral toxicity : LD50 Oral Rat: 4,400 mg/kg Acute oral toxicity : LD50 Dermal Rabbit: > 5,000 mg/kg Acute oral toxicity : LD50 Oral Rat: 16,000 mg/kg Acute oral toxicity : LD50 Oral Rat: 2,573 mg/kg 7-methylamethyleneocta-1,6-diene: - Acute oral toxicity : LD50 Dermal Rabbit: > 5,000 mg/kg Acute oral toxicity : LD50 Dermal Rabbit: > 5,000 mg/kg <t< td=""><td>Symptoms of Overexposure</td><td></td><td></td></t<>	Symptoms of Overexposure		
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Skin corrosion/irritation <u>Product:</u> Remarks: Irritating to skin.			
Product: Remarks: Irritating to skin.	Acute dermal toxicity	: LD50 Dermal Rabbit: > 5,000 mg/k	g
Remarks: Irritating to skin.	Skin corrosion/irritation		
	Product:		
Serious eve damage/eve irritation	Remarks: Irritating to skin.		
serious eye damage/eye mitation	Serious eye damage/eye irritatio	on	

Product:



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Remarks: Severe eye irritation

Respiratory or skin sensitisation

Product:

Remarks: Causes sensitisation.

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:

Remarks: Solvents may degrease the skin.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

No data available

Persistence and degradability

No data available Bioaccumulative potential

Product:

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

No data available

Other adverse effects

No data available



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Product:		
Regulation	40 CFR Protection of Environme Stratospheric Ozone - CAA Sec Substances	-
Remarks	This product neither contains, no with a Class I or Class II ODS as Clean Air Act Section 602 (40 C + B).	s defined by the U.S.
Additional ecological information	: No data available	

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

SECTION 14. TRANSPORT INFORMATION

Transportation Regulation: 49 CFR (USA): NOT REGULATED AS DANGEROUS GOODS OR HAZARDOUS MATERIAL

Transportation Regulation: IMDG (Vessel): UN1993, FLAMMABLE LIQUID, N.O.S., (D-LIMONENE), 3, III, MP: (D-LIMONENE)

Transportation Regulation: IATA (Cargo Air): UN1993, Flammable liquid, n.o.s., (D-LIMONENE), 3, III, MP: (D-LIMONENE)

Transportation Regulation: IATA (Passenger Air): UN1993, Flammable liquid, n.o.s., (D-LIMONENE), 3, III, MP: (D-LIMONENE)

Transportation Regulation: TDG (Canada): NOT REGULATED AS DANGEROUS GOODS OR HAZARDOUS MATERIAL

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.



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SECTION 15. REGULATORY INFORMATION

TSCA list

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: 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

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards	:	Flammable (gases, aerosols, liquids, or solids) Skin corrosion or irritation Serious eye damage or eye irritation Respiratory or skin sensitisation Aspiration hazard
SARA 302	:	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
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		
\wedge		WARNING: This product can expose you to chemicals including 7-methyl-3-methyleneocta-1,6-diene, which is/are known to the State of California to cause cancer. For more

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

DSLThis product contains one or more components that are listed on the
Canadian NDSL. All other components are on the Canadian DSL.TSCAOn TSCA Inventory

information go to www.P65Warnings.ca.gov.

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)

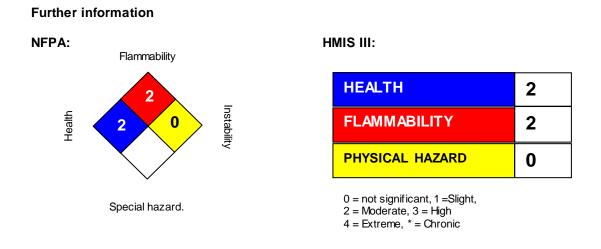


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SECTION 16. OTHER INFORMATION



OSHA - GHS Label Information:

Hazard pictograms	
Signal w ord	: Danger:
Hazard statements	: Flammable liquid and vapour. May be fatal if sw allowed and enters airways. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation.
Precautionary statements	:
	 Prevention: Keep aw ay from heat/sparks/open flames/hot surfaces. No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing dust/fume/gas/mist/vapours/spray. Wash skin thoroughly after handling. Contaminated work clothing should not be allow ed out of the workplace. Wear protective gloves/eye protection/face protection. Response: IF SWALLOWED: Immediately call a POISON CENTER/doctor. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Do NOT induce vomiting. If skin irritation or rash occurs: Get medical advice/ attention. If eye irritation persists: Get medical advice/ attention. Take off contaminated clothing and w ash before reuse. In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish. Storage: Store in a w ell-ventilated place. Keep cool.

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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.



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This SDS has been prepared by the Compliance Services organization supporting this manufacturer, supplier or distributor.

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.