

# ZEP MORADO SUPER CLEANER

Version 1.3 Revision Date 11/16/2015 Print Date 07/15/2016

#### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Material name

: ZEP MORADO SUPER CLEANER

Material number

: 00000000000085689

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**

Appearance	liquid	
Colour	purple	
Odour	ether-like	

#### **GHS** Classification

Skin corrosion

: Category 1A

Serious eye damage

**GHS** Label element

Hazard pictograms

: Category 1

Hazard statements

Signal word

: H314 Causes severe skin burns and eye damage.

Precautionary statements

: Prevention:

: Danger

P264 Wash skin thoroughly after handling.

P280 Wear protective gloves/ protective clothing/ eye

protection/ face protection. P260 Do not breathe mist.

Response:

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT

induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/



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P304 + P340 + P310 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. P305 + P351 + P338 + P310 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.

P363 Wash contaminated clothing before reuse.

Storage:

P405 Store locked up.

Disposal:

Dispose of contents/container in accordance with local

regulation.

#### **Potential Health Effects**

Carcinogenicity:

**OSHA** 

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

2-butoxyethanol 111-76-2

No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by OSHA.

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.

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture

: Mixture

### Hazardous components

Chemical Name	CAS-No.	Concentration [%]
sodium hydroxide	1310-73-2	>= 1 - < 5
2-butoxyethanol	111-76-2	>= 1 - < 5
Sulfonic acids, C14-16-alkane hydroxy and C14- 16-alkene, sodium salts	68439-57-6	>= 1 - < 5
Alcohols, C10-14, ethoxylated	66455-15-0	>= 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.

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.

Consult a physician after significant exposure



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In case of skin contact : If skin irritation persists, call a physician.

Wash off immediately with plenty of water for at least 15

minutes.

If on clothes, remove clothes.

In case of eye contact : Remove contact lenses.

Protect unharmed eye.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

Rinse immediately with plenty of water for at least 15 minutes.

If swallowed : Keep respiratory tract clear.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician.

DO NOT induce vomiting unless directed to do so by a

physician or poison control center. Take victim immediately to hospital.

#### SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Dry chemical

Water spray jet Alcohol-resistant foam Carbon dioxide (CO2)

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, protective equipment and emergency procedures Environmental precautions : Use personal protective equipment.

al precautions : Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.



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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).

Sweep up or vacuum up spillage and collect in suitable

container for disposal.

#### 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.

Do not breathe vapours or spray mist.

Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work rooms. 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

: Store and keep away from, oxidizing agents and acids.

#### 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
100		С	2 mg/m3	NIOSH REL
		TWA	2 mg/m3	OSHA Z-1
		С	2 mg/m3	OSHA P0
2-butoxyethanol	111-76-2	TWA	20 ppm	ACGIH
		TWA	5 ppm 24 mg/m3	NIOSH REL
		TWA	50 ppm 240 mg/m3	OSHA Z-1
		TWA	25 ppm 120 mg/m3	OSHA P0

## Biological occupational exposure limits

Component	CAS-No.	Control	Biological	Sampling	Permissible	Basis
		parameters	specimen	time	concentration	
2-BUTOXYETHANOL	111-76-2	Butoxyacetic	Urine	End of	200 mg/g	ACGIH BEI



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		soon as possible after exposure ceases)
Remarks: Creatinine		•

Engineering measures

: Handle only in a place equipped with local exhaust (or other

appropriate exhaust).

Personal protective equipment

Respiratory protection : 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 : Ensure that eyewash stations and safety showers are close to

the workstation location.

Safety glasses

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 : purple

Odour : ether-like

Odour Threshold : No data available

pH : 13.0 - 14.0

Melting point/freezing point : No data available

Boiling point : 98.9 °C

Flash point : 93.3 °C

Method: closed cup

Evaporation rate : 1

Upper explosion limit : No data available

Lower explosion limit : No data available



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Vapour pressure

: not determined

Relative vapour density

: No data available

Density

: 1.063 g/cm3

Solubility(ies)

Water solubility

: soluble

Partition coefficient: n-

: No data available

octanol/water

. 140 data available

Auto-ignition temperature

: not determined

Thermal decomposition

: No data available

Viscosity

Viscosity, kinematic

: 6.6 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

: Acids Metals

Oxidizing agents

Hazardous decomposition

products

: No hazardous decomposition products are known.

#### SECTION 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

Product:

Acute oral toxicity

: Acute toxicity estimate : > 5,000 mg/kg

Method: Calculation method

Acute inhalation toxicity

: Acute toxicity estimate : > 40 mg/l

Exposure time: 4 h
Test atmosphere: vapour
Method: Calculation method

Acute dermal toxicity

: Acute toxicity estimate : > 5,000 mg/kg

Method: Calculation method



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sodium hydroxide:

Acute dermal toxicity

: Acute toxicity estimate Rabbit: 1,350 mg/kg

Skin corrosion/irritation

Product:

Remarks: Extremely corrosive and destructive to tissue.

Serious eye damage/eye irritation

**Product:** 

Remarks: Irritating to eyes.

Respiratory or skin sensitisation

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

**Product:** 

Carcinogenicity -

: Not classifiable as a human carcinogen.

Assessment

Reproductive toxicity

No data available

sodium hydroxide:

2-butoxyethanol:

Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts:

Alcohols, C10-14, ethoxylated:

STOT - single exposure

No data available

STOT - repeated exposure

No data available

Aspiration toxicity

No data available

**Further information** 

**Product:** 

Remarks: No data available



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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

Product:

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.

Do not contaminate ponds, waterways or ditches with

chemical or used container.

Send to a licensed waste management company.

Contaminated packaging

: Empty remaining contents.

Dispose of as unused product. 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



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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

#### SECTION 15. REGULATORY INFORMATION

#### 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	*

<sup>\*:</sup> 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

: Acute Health 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

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 All components of this product are on the Canadian DSL

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), TCSI (Taiwan), TSCA (USA)



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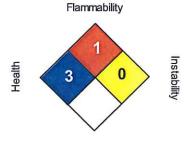
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#### Further information

#### NFPA:



Special hazard.

#### HMIS III:

HEALTH	3
FLAMMABILITY	1
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,

2 = Moderate, 3 = High

4 = Extreme, \* = Chronic

#### OSHA GHS Label Information:

Hazard pictograms



Signal word Hazard statements Precautionary statements

Danger:

Causes severe skin burns and eye damage.

Prevention: Wash skin thoroughly after handling. Wear protective gloves/ protective clothing/ eye protection/ face protection. Do not breathe mist.

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. Wash contaminated clothing before reuse.

Storage: Store locked up.

Disposal: Dispose of contents/container in accordance with local regulation.

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