

ZEP FORMULA 50 4-1GL

Version 2.1

Revision Date 08/23/2017

Print Date 09/20/2017

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Material name

ZEP FORMULA 50 4-1GL

Material number

: 000000000000085924

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 Emergency	:	CHEMTREC: 800-424-9300 - All Calls Recorded. In the District of Columbia 202-483-7616

Recommended use of the chemical and restrictions on use

Recommended use

: Specialty Cleaner and Remover

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance	liquid	
Colour	clear, dark blue	
Odour	mild	

GHS Classification

Skin corrosion

Category 1A
Category 1

Serious eye damage

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

induce vomiting.



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P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.

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/doctor.

P363 Wash contaminated clothing before reuse.

Disposal:

Dispose of contents/container in accordance with local

regulation.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture

: Mixture

Hazardous components

Chemical name	CAS-No.	Concentration [%]	
2-butoxyethanol	111-76-2	>= 1 - < 5	
Sodium metasilicate (disodium salt)	6834-92-0	>= 1 - < 5	
sodium dodecylbenzenesulfonate	25155-30-0	>= 1 - < 5	
tetrasodium ethylenediaminetetraacetate	64-02-8	>= 1 - < 5	
Fatty acids, tall-oil, sodium salts	61790-45-2	>= 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.

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.

If on clothes, remove clothes.

In case of eye contact

Small amounts splashed into eyes can cause irreversible

tissue damage and blindness.

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

Continue rinsing eyes during transport to hospital.

Remove contact lenses. Protect unharmed eye.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.



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If swallowed

: Clean mouth with water and drink afterwards plenty of water.

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.

Most important symptoms and effects, both acute and

delayed

: Effects are immediate and delayed.

Symptoms may include blistering, irritation, burns, and pain. Effects are dependent on exposure (dose, concentration,

contact time).

Causes severe skin burns and eye damage.

Review section 2 of SDS to see all potential hazards.

Notes to physician

Treat symptomatically. Symptoms may be delayed.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media

: Dry chemical

Water 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

Nitrogen oxides (NOx)

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.

: Prevent product from entering drains.



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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

: 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

: Oxidizing agents

Do not freeze.

Do not store near 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
2-butoxyethanol	111-76-2	TWA	20 ppm	ACGIH
2 Butoky other is		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
		PEL	20 ppm 97 mg/m3	CAL PEL

Biological occupational exposure limits

Component	CAS-No.	Control	Biological specimen	Sampling time	Permissible concentration	Basis
2-BUTOXYETHANOL	111-76-2	Butoxyacetic acid (BAA)		End of shift (As	200.mg/g Creatinine	ACGIH BEI
				soon as		



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			possible after
	- 1		exposure
			ceases)

Engineering measures

: effective ventilation in all processing areas

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

Material

Protective gloves

Remarks The suitability f

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.
Tightly fitting safety goggles

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 : clear, dark blue

Odour : mild

Odour Threshold No data available

pH > 13

Melting point/freezing point : No data available

Boiling point 104.44 °C

Flash point

does not flash

Evaporation rate : 1

Upper explosion limit : No data available
Lower explosion limit : No data available
Vapour pressure : not determined

Relative vapour density : No data available



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Density

1.058 g/cm3

Solubility(ies)

Water solubility

soluble

Partition coefficient: n-

No data available

octanol/water

: not determined

Auto-ignition temperature Thermal decomposition

: No data available

Viscosity

Viscosity, kinematic

5.2 mm2/s (20 °C)

SECTION 10. STABILITY AND REACTIVITY

Reactivity

: Stable

Chemical stability

: Stable under normal conditions.

Possibility of hazardous

: No decomposition if stored and applied as directed.

reactions

Conditions to avoid

Extremes of temperature and direct sunlight.

Incompatible materials

: Acids

Oxidizing agents

Hazardous decomposition

products

: Carbon oxides

Nitrogen oxides (NOx)

SECTION 11. TOXICOLOGICAL INFORMATION

Potential Health Effects

Aggravated Medical

: None known.

Condition

Symptoms of Overexposure

: Effects are immediate and delayed.

Symptoms may include blistering, imitation, burns, and pain. Effects are dependent on exposure (dose, concentration,

contact time).

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

2-butoxyethanol

111-76-2



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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 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.

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

Components:

2-butoxyethanol:

Acute oral toxicity

: LD50 Oral Rat: 880 mg/kg

Acute dermal toxicity

: LD50 Dermal Rabbit: 1,060 mg/kg

Sodium metasilicate (disodium salt):

Acute oral toxicity

: LD50 Rat: 1,153 mg/kg

sodium dodecylbenzenesulfonate:

Acute oral toxicity

LD50 Oral Rat: 438 mg/kg

Skin corrosion/irritation

Product:

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



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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: 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

; 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



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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.

Contaminated packaging

Empty remaining contents.
 Dispose of as unused product.
 Do not re-use empty containers.

Transportation Regulation: 49 CFR (USA):

SECTION 14. TRANSPORT INFORMATION

NOT REGULATED AS DANGEROUS GOODS OR HAZARDOUS MATERIAL

Transportation Regulation: IMDG (Vessel):

NOT REGULATED AS DANGEROUS GOODS OR HAZARDOUS MATERIAL

Transportation Regulation: IATA (Cargo Air):

NOT REGULATED AS DANGEROUS GOODS OR HAZARDOUS MATERIAL

Transportation Regulation: IATA (Passenger Air):

NOT REGULATED AS DANGEROUS GOODS OR HAZARDOUS MATERIAL

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.

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



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Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
sodium dodecylbenzenesulfonate	25155-30-0	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

: Acute Health Hazard

SARA 302

: No chemicals in this material are subject to the reporting

requirements of SARA Title III, Section 302.

SARA 313

The following components are subject to reporting levels

established by SARA Title III, Section 313:

2-butoxyethanol

111-76-2

3.9714 %

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

For information on the country notification status for other regions please contact the manufacturer's regulatory group.

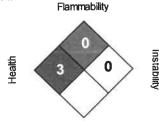
Inventory Acronym and Validity Area Legend:

TSCA (USA), DSL (Canada), NDSL (Canada)

SECTION 16. OTHER INFORMATION

Further information

NFPA:



Special hazard.

HMIS III:

HEALTH	3
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,

2 = Moderate, 3 = High

4 = Extreme, * = Chronic



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Hazard pictograms

Signal w ord 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.

Response: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Pines skin with water. IF

hair): Take off immediately all contaminated clothing. Rinse skin with water. 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

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

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