

Version 3.1	Revision Date 03/28/2018	Print Date 04/14/2018			
SECTION 1. PRODUCT AND COMPANY IDENTIFICATION					

Material name	:	FORMULA 50 275 GAL		
Material number	:	0000000000085989		
Manufacturer or supplier's details				
Company	:	Zep Inc.		
Address	:	350 Joe Frank Harris Parkway, SE Emerson, GA 30137		
Telephone	:	404-352-1680		

Emergency telephone nu	mbe	rs
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	:	Specialty Cleaner and Remover
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## **SECTION 2. HAZARDS IDENTIFICATION**

## **Emergency Overview**

Appearance	liquid
Colour	clear, dark blue
Odour	mild

### **GHS Classification**

Skin corrosion Serious eye damage Specific target organ toxicity - repeated exposure (Inhalation)	: :	Category 1 Category 1 Category 2
GHS label elements		
Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	H314 Causes severe skin burns and eye damage. H373 May cause damage to organs through prolonged or repeated exposure if inhaled.
Precautionary statements	:	<b>Prevention:</b> P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.



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	<ul> <li>P264 Wash skin thoroughly after</li> <li>P280 Wear protective gloves/ proprotection/ face protection.</li> <li><b>Response:</b></li> <li>P301 + P330 + P331 IF SWALLC induce vomiting.</li> <li>P303 + P361 + P353 IF ON SKIN immediately all contaminated clot</li> <li>P304 + P340 + P310 IF INHALED and keep comfortable for breathin POISON CENTER/doctor.</li> <li>P305 + P351 + P338 + P310 IF II water for several minutes. Removand easy to do. Continue rinsing. CENTER/doctor.</li> <li>P314 Get medical advice/ attention P363 Wash contaminated clothin Disposal:</li> <li>P501 Dispose of contents/contair regulation.</li> </ul>	WED: Rinse mouth. Do NOT WED: Rinse mouth. Do NOT I (or hair): Take off hing. Rinse skin with water. D: Remove person to fresh air ng. Immediately call a N EYES: Rinse cautiously with ve contact lenses, if present Immediately call a POISON on if you feel unwell. g before reuse.

## 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	>= 3 - < 5
sodium dodecylbenzenesulfonate	25155-30-0	>= 1 - < 5
tetrasodium ethylenediaminetetraacetate	64-02-8	>= 1 - < 3
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	<ul> <li>Move out of dangerous area.</li> <li>Consult a physician.</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> </ul>
In case of skin contact	<ul> <li>Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.</li> <li>Wash off immediately with plenty of water for at least 15 minutes.</li> <li>If on clothes, remove clothes.</li> </ul>
In case of eye contact	: Small amounts splashed into eyes can cause irreversible



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		h plenty of water for at least 15 minutes. during transport to hospital. es. e. while rinsing.	
If swallowed	Keep respiratory tract Never give anything by If symptoms persist, ca	y mouth to an unconscious person. all a physician. ting unless directed to do so by a ontrol center.	
Most important symptoms and effects, both acute and delayed	Effects are dependent contact time). Causes severe skin bu May cause damage to exposure if inhaled.	le blistering, irritation, burns, and pain. t on exposure (dose, concentration,	
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.



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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.
Environmental precautions	<ul> <li>Prevent product from entering drains.</li> <li>Prevent further leakage or spillage if safe to do so.</li> <li>If the product contaminates rivers and lakes or drains inform respective authorities.</li> </ul>
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. 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.</li> </ul>
Conditions for safe storage	<ul> <li>Keep container tightly closed in a dry and well-ventilated place.</li> <li>Observe label precautions.</li> <li>Electrical installations / working materials must comply with the technological safety standards.</li> </ul>
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
		TWA	5 ppm 24 mg/m3	NIOSH REL
		TWA	50 ppm 240 mg/m3	OSHA Z-1



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	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	Sampling	Permissible	Basis
		parameters	specimen	time	concentration	
2-BUTOXYETHANOL	111-76-2	Butoxyacetic	Urine	End of	200.mg/g	ACGIH BEI
		acid (BAA)		shift (As	Creatinine	
				soon as		
				possible		
				after		
				exposure		
				ceases)		

Engineering measures	ffective ventilation in all processing areas	
Personal protective equipme		
Respiratory protection	Use respiratory protection unless adequate local exh rentilation is provided or exposure assessment demo hat exposures are within recommended exposure gr	onstrates
Hand protection Material Remarks	Protective gloves The suitability for a specific workplace should be disc with the producers of the protective gloves.	cussed
Eye protection	Ensure that eyewash stations and safety showers ar he workstation location. Fightly fitting safety goggles	e close to
Skin and body protection	mpervious clothing Choose body protection according to the amount and concentration of the dangerous substance at the wor	
Hygiene measures	Vhen using do not eat or drink. Vhen using do not smoke. Vash hands before breaks and at the end of workda	ıy.

# SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Colour	:	clear, dark blue
Odour	:	mild
Odour Threshold	:	No data available
рН	:	> 13



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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	
Density	: 1.058 g/cm3	
Solubility(ies)		
Water solubility	: soluble	
Partition coefficient: n- octanol/water	: No data available	
Auto-ignition temperature	: not determined	
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 reactions	: No decomposition if stored and applied as directed.
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	



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Symptoms of Overexposure	: Effects are immediate and delaye Symptoms may include blistering, Effects are dependent on exposur contact time).	irritation, burns, and pain.
Carcinogenicity:		
IARC	No component of this product preser equal to 0.1% is identified as probab	
ACGIH	human carcinogen by IARC. Confirmed animal carcinogen with un humans	
OSHA	2-butoxyethanol No component of this product preser equal to 0.1% is on OSHA's list of re	
NTP	No component of this product preser equal to 0.1% is identified as a know by NTP.	
cute toxicity		
Product:		
Acute oral toxicity	: Acute toxicity estimate : > 5,000 n Method: Calculation method	ng/kg
Acute inhalation toxicity	: Acute toxicity estimate : > 200 mg Exposure time: 4 h Test atmosphere: vapour Method: Calculation method	ŋ/l
Acute dermal toxicity	: Acute toxicity estimate : > 5,000 n Method: Calculation method	ng/kg
Components:		
<b>2-butoxyethanol:</b> Acute oral toxicity	: LD50 Oral Rat: 880 mg/kg	
Acute dermal toxicity	: LD50 Dermal Rabbit: 1,060 mg/kg	3
Sodium metasilicate (disod		
Acute oral toxicity	: LD50 Rat: 1,153 mg/kg	
sodium dodecylbenzenesul Acute oral toxicity	fonate: : LD50 Oral Rat: 438 mg/kg	
Skin corrosion/irritation		
Product:		
Remarks: Extremely corrosive	e and destructive to tissue.	

## Serious eye damage/eye irritation



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## 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

#### STOT - single exposure

No data available

### STOT - repeated exposure

#### **Components:**

# tetrasodium ethylenediaminetetraacetate:

Exposure routes: Inhalation Assessment: May cause damage to organs through prolonged or repeated exposure.

### 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-	:	Remarks: No data available
octanol/water		

## Mobility in soil



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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, 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	<ul> <li>Do not dispose of waste into sewer.</li> <li>Do not contaminate ponds, waterways or ditches with chemical or used container.</li> <li>Dispose of in accordance with local regulations.</li> </ul>
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): 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

# SAFETY DATA SHEET



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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)
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	:	Skin corrosion or irritation Serious eye damage or eye irrita Specific target organ toxicity (sin		oosure)
SARA 302	:	No chemicals in this material are requirements of SARA Title III, S		orting
SARA 313	:	The following components are set established by SARA Title III, Set 2-butoxyethanol The following components are set established by SARA Title III, Set 2-butoxyethanol 2-(2-butoxyethoxy)ethanol	ection 313: 111-76-2 ubject to reporting le	3.9714 %
California Prop. 65				
		This product does not contain California to cause cancer, birt		

reproductive harm.

# SAFETY DATA SHEET



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#### 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

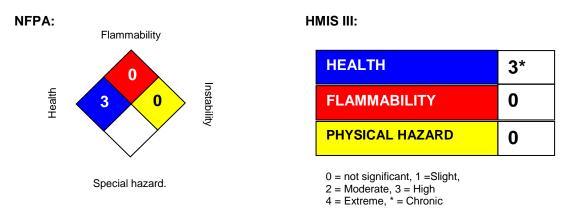
For information on the country notification status for other regions please contact the manufacturer's regulatory group.

### Inventory Acronym and Validity Area Legend:

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

## **SECTION 16. OTHER INFORMATION**

### **Further information**



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

Hazard pictograms	
Signal word	: Danger:
Hazard statements	: Causes severe skin burns and eye damage. May cause damage to organs through prolonged or repeated exposure if inhaled.
Precautionary statements	
	<ul> <li>Prevention: Do not breathe dust/ fume/ gas/ mist/ vapours/ spray. 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. 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. Get medical advice/ attention if you feel unwell. Wash contaminated clothing before reuse.</li> </ul>
	Disposal: Dispose of contents/container in accordance with local regulation.

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# SAFETY DATA SHEET



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