

# **ZEP TOP SOLV 4-1GL**

Version 2.0 Revision Date 04/18/2018 Print Date 07/08/2019

### **SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Material name : ZEP TOP SOLV 4-1GL

Material number 00000000000109424

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

Recommended use of the chemical and restrictions on use

: Degreaser Recommended use

## **SECTION 2. HAZARDS IDENTIFICATION**

### **Emergency Overview**

Appearance	liquid
Colour	colourless, clear
Odour	characteristic

### **GHS Classification**

Skin irritation : Category 2 Eye irritation : Category 2A Carcinogenicity : Category 1B

single exposure

Specific target organ toxicity - : Category 3 (Central nervous system)

**GHS label elements** 

Hazard pictograms





Signal word Danger

Hazard statements : H315 Causes skin irritation.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H350 May cause cancer.

: Prevention: Precautionary statements



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P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read

and understood.

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/ protective clothing/ eye

protection/ face protection.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P304 + P340 + P312 IF INHALED: Remove person to fresh air

and keep comfortable for breathing. Call a POISON

CENTER/doctor if you feel unwell.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing.

P308 + P313 IF exposed or concerned: Get medical advice/

attention.

P332 + P313 If skin irritation occurs: Get medical advice/

attention.

P337 + P313 If eye irritation persists: Get medical advice/

attention.

P362 Take off contaminated clothing and wash before reuse.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container

tightly closed.

Disposal:

P501 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 [%]
trichloroethylene	79-01-6	>= 90 - <= 100

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 : Consult a physician after significant exposure.

If unconscious, place in recovery position and seek medical

advice.

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

Wash off immediately with plenty of water for at least 15



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minutes

Remove contaminated clothing and shoes. Wash contaminated clothing before reuse.

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids,

for at least 15 minutes. Remove contact lenses. Protect unharmed eye.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.

Do not give milk or alcoholic beverages.

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.

Most important symptoms and effects, both acute and

delayed

: Chronic effects are delayed and symptoms may not be

observed during an exposure.

Effects are dependent on exposure (dose, concentration,

contact time).

Effects are immediate and delayed.

Symptoms may include irritation, redness, pain, and rash. Symptoms of overexposure may include disorientation; dizziness; and confusion. May progress to unconsciousness,

paralysis, and convulsions.

Causes skin irritation.

Causes serious eye irritation.
May cause drowsiness or dizziness.

May cause cancer.

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 : Use water spray, alcohol-resistant foam, dry chemical or

carbon dioxide.

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

Chlorine compounds

Specific extinguishing

methods

: Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.



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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.

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 or spray mist.

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.

Provide sufficient air exchange and/or exhaust in work rooms. Container may be opened only under exhaust ventilation

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

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 oxidizing agents and strongly basic or

alkaline materials.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Components	CAS-No.	Value type	Control	Basis
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		(Form of exposure)	parameters / Permissible concentration	
trichloroethylene	79-01-6	TWA	10 ppm	ACGIH
		STEL	25 ppm	ACGIH
		TWA	100 ppm	OSHA Z-2
		CEIL	200 ppm	OSHA Z-2
		Peak	300 ppm	OSHA Z-2
		TWA	50 ppm 270 mg/m3	OSHA P0
		STEL	200 ppm 1,080 mg/m3	OSHA P0
		STEL	100 ppm 537 mg/m3	CAL PEL
		С	300 ppm	CAL PEL
		PEL	25 ppm 135 mg/m3	CAL PEL

## Biological occupational exposure limits

Component	CAS-No.	Control	Biological	Sampling	Permissible	Basis
		parameters	specimen	time	concentration	
TRICHLOROETHENE	79-01-6	Trichloroace	Urine	End of	15 mg/l	ACGIH BEI
		tic acid		shift at		
				end of		
				workwee		
				k		
TRICHLOROETHENE		Trichloroeth	In blood	End of	0.5 mg/l	ACGIH BEI
		anol		shift at		
				end of		
				workwee		
				k		
TRICHLOROETHENE		Trichloroeth	In end-	End of		ACGIH BEI
		ylene	exhaled air	shift at		
				end of		
				workwee		
				k		

**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 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



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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 : colourless, clear
Odour : characteristic
Odour Threshold : No data available
pH : No data available
Melting point/freezing point : No data available

Boiling point : 87.2 °C

Flash point

No data available

Evaporation rate : No data available
Upper explosion limit : No data available
Lower explosion limit : No data available

Vapour pressure : 79.99 hPa

No data available

Relative vapour density : No data available

Density : 1.456 g/cm3

Bulk density : No data available

Solubility(ies)

Water solubility : insoluble

Solubility in other solvents : Not applicable

Partition coefficient: n-

octanol/water

: No data available

Auto-ignition temperature : not determined

Thermal decomposition : No data available

Viscosity

Viscosity, dynamic : No data available Viscosity, kinematic : 2.1 mm2/s (20 °C)



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### **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 : No data available

Incompatible materials : Oxidizing agents

Alkaline materials

Aluminium magnesium

Hazardous decomposition

products

: Carbon oxides Chlorine

Phosgene

### **SECTION 11. TOXICOLOGICAL INFORMATION**

### **Potential Health Effects**

Aggravated Medical

Condition

: None known.

Symptoms of Overexposure : Chronic effects are delayed and symptoms may not be

observed during an exposure.

Effects are dependent on exposure (dose, concentration,

contact time).

Effects are immediate and delayed.

Symptoms may include irritation, redness, pain, and rash. Symptoms of overexposure may include disorientation; dizziness; and confusion. May progress to unconsciousness,

paralysis, and convulsions.

Carcinogenicity:

IARC Group 1: Carcinogenic to humans

trichloroethylene 79-01-6

ACGIH Suspected human carcinogen

trichloroethylene 79-01-6

OSHA No component of this product present at levels greater than or

equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP Known to be human carcinogen

trichloroethylene 79-01-6

### **Acute toxicity**

### **Components:**

trichloroethylene:



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Acute oral toxicity : LD50 Oral Rat: 4,920 mg/kg

Acute inhalation toxicity : LC50 Mouse: 8450 ppm

Exposure time: 4 h

Acute dermal toxicity : LD50 Dermal Rabbit: > 20,000 mg/kg

### Skin corrosion/irritation

**Product:** 

Remarks: Irritating to skin.

### Serious eye damage/eye irritation

**Product:** 

Remarks: Irritating to eyes.

### 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

No data available

### **Aspiration toxicity**

No data available

### **SECTION 12. ECOLOGICAL INFORMATION**

### **Ecotoxicity**

No data available

Persistence and degradability

No data available

**Bioaccumulative potential** 

**Product:** 



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Partition coefficient: n-

octanol/water
Components:
trichloroethylene:

: Remarks: No data available

Partition coefficient: n-

octanol/water

: log Pow: 2.29

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 : 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.

### **SECTION 14. TRANSPORT INFORMATION**

Transportation Regulation: 49 CFR (USA): ORM-D, CONSUMER COMMODITY

Transportation Regulation: IMDG (Vessel): UN1710, TRICHLOROETHYLENE, 6.1, III

Transportation Regulation: IATA (Cargo Air): UN1710, TRICHLOROETHYLENE, 6.1, III



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Transportation Regulation: IATA (Passenger Air):

This material is not classified.

Transportation Regulation: TDG (Canada):

UN1710, TRICHLOROETHYLENE, 6.1, III - Limited quantity

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.

The following substance(s) is/are subject to TSCA 12(b) export

notification requirements:

trichloroethylene 79-01-6

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

## **CERCLA Reportable Quantity**

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
trichloroethylene	79-01-6	100	100

### SARA 304 Extremely Hazardous Substances Reportable Quantity

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

SARA 311/312 Hazards : Carcinogenicity

Serious eye damage or eye irritation

Skin corrosion or irritation

Specific target organ toxicity (single or repeated exposure)

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:

trichloroethylene 79-01-6 100 %

### California Prop. 65



WARNING: This product can expose you to chemicals including trichloroethylene, which is/are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to

www.P65Warnings.ca.gov.



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

**DSL** All components of this product are on the Canadian DSL

TSCA On TSCA Inventory

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

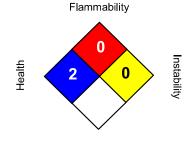
### **Inventory Acronym and Validity Area Legend:**

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

### **SECTION 16. OTHER INFORMATION**

### **Further information**

### NFPA:



Special hazard.

### HMIS III:

HEALTH	2*
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,

2 = Moderate, 3 = High

4 = Extreme, \* = Chronic

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

Hazard pictograms





Signal word : **Danger**:

Hazard statements : Causes skin irritation. Causes serious eye irritation. May cause drowsiness or

dizziness. May cause cancer.

Precautionary statements

**Prevention:** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. Wash skin thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response: IF ON SKIN: Wash with plenty of soap and water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical advice/ attention. If skin irritation occurs: Get medical advice/ attention. If eye irritation persists: Get medical advice/ attention. Take off contaminated clothing and wash before reuse.

Storage: Store in a well-ventilated place. Keep container tightly closed.



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

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