

# SAFETY DATA SHEET

## ZEP TOP SOLV

Version 2.1

Revision Date 10/01/2023

Print Date 04/25/2025

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Material name : ZEP TOP SOLV

Material number : 000000000000109485

#### Manufacturer or supplier's details

Company : Zep Inc.

Address : 350 Joe Frank Harris Parkway, SE  
Emerson, GA 30137

Telephone : Compliance Services - 877-428-9937

#### Emergency telephone numbers

For SDS Information : Compliance Services - 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

### 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  
Specific target organ toxicity - single exposure : 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.

Precautionary statements : **Prevention:**

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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.

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|   |  |
|---|--|
|   | <p>Wash off immediately with plenty of water for at least 15 minutes.<br/>Remove contaminated clothing and shoes.<br/>Wash contaminated clothing before reuse.</p>   |
| In case of eye contact                                      | <p>: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.<br/>Remove contact lenses.<br/>Protect unharmed eye.<br/>Keep eye wide open while rinsing.<br/>If eye irritation persists, consult a specialist.</p>   |
| If swallowed  | <p>: Keep respiratory tract clear.<br/>Do not give milk or alcoholic beverages.<br/>Never give anything by mouth to an unconscious person.<br/>If symptoms persist, call a physician.<br/>DO NOT induce vomiting unless directed to do so by a physician or poison control center.</p>   |
| Most important symptoms and effects, both acute and delayed | <p>: Chronic effects are delayed and symptoms may not be observed during an exposure.<br/>Effects are dependent on exposure (dose, concentration, contact time).<br/>Effects are immediate and delayed.<br/>Symptoms may include irritation, redness, pain, and rash.<br/>Symptoms of overexposure may include disorientation; dizziness; and confusion. May progress to unconsciousness, paralysis, and convulsions.</p> <p>Causes skin irritation.<br/>Causes serious eye irritation.<br/>May cause drowsiness or dizziness.<br/>May cause cancer.<br/>Review section 2 of SDS to see all potential hazards.</p> |
| Notes to physician  | <p>: Treat symptomatically. Symptoms may be delayed.</p>   |

### SECTION 5. FIREFIGHTING MEASURES

|                                      |  |
|--------------------------------------|--|
| Suitable extinguishing media         | <p>: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.</p>                                |
| Unsuitable extinguishing media       | <p>: High volume water jet</p>   |
| Specific hazards during firefighting | <p>: Do not allow run-off from fire fighting to enter drains or water courses.</p>                               |
| Hazardous combustion products        | <p>: Carbon dioxide (CO<sub>2</sub>)<br/>Carbon monoxide<br/>Smoke<br/>Chlorine compounds</p>                    |
| Specific extinguishing methods       | <p>: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.</p> |

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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 : Use personal protective equipment.
- 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.
- 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 hood.  
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.  
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<br>270 mg/m3                    | OSHA P0  |
|                   |         | STEL               | 200 ppm<br>1,080 mg/m3                 | OSHA P0  |
|                   |         | STEL               | 100 ppm<br>537 mg/m3                   | CAL PEL  |
|                   |         | C                  | 300 ppm                                | CAL PEL  |
|                   |         | PEL                | 25 ppm<br>135 mg/m3                    | CAL PEL  |

### Biological occupational exposure limits

| Component       | CAS-No. | Control parameters   | Biological specimen | Sampling time                   | Permissible concentration | Basis     |
|-----------------|---------|----------------------|---------------------|---------------------------------|---------------------------|-----------|
| TRICHLOROETHENE | 79-01-6 | Trichloroacetic acid | Urine               | End of shift at end of workweek | 15 mg/l                   | ACGIH BEI |
| TRICHLOROETHENE |         | Trichloroethanol     | In blood            | End of shift at end of workweek | 0.5 mg/l                  | ACGIH BEI |
| TRICHLOROETHENE |         | Trichloroethylene    | In end-exhaled air  | End of shift at end of workweek |                           | ACGIH BEI |

**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

Remarks

: Protective gloves

: 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.

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### 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                            | :<br>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<br>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<br>Alkaline materials<br>Aluminium<br>magnesium |
| Hazardous decomposition products   | : Carbon oxides<br>Chlorine<br>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.<br>Effects are dependent on exposure (dose, concentration, contact time).<br>Effects are immediate and delayed.<br>Symptoms may include irritation, redness, pain, and rash.<br>Symptoms of overexposure may include disorientation; dizziness; and confusion. May progress to unconsciousness, paralysis, and convulsions.<br><br>Causes skin irritation.<br>Causes serious eye irritation.<br>May cause drowsiness or dizziness.<br>May cause cancer.<br>Review section 2 of SDS to see all potential hazards.<br>Treat symptomatically. Symptoms may be delayed. |

#### Carcinogenicity:

|       |  |         |
|-------|--|---------|
| IARC  | Group 1: Carcinogenic to humans  |         |
| ACGIH | trichloroethylene  | 79-01-6 |
|       | Suspected human carcinogen   |         |
| OSHA  | trichloroethylene  | 79-01-6 |
|       | 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   |         |

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trichloroethylene

79-01-6

### Acute toxicity

#### Components:

##### **trichloroethylene:**

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: Severe eye irritation

### 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

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## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity



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No data available

### Persistence and degradability

No data available

### Bioaccumulative potential

#### Product:

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

#### Components:

##### **trichloroethylene :**

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):  
UN1710, Trichloroethylene, 6.1, III

Transportation Regulation: IMDG (Vessel):

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UN1710, TRICHLOROETHYLENE, 6.1, III

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

Transportation Regulation: IATA (Passenger Air):  
UN1710, Trichloroethylene, 6.1, III

Transportation Regulation: TDG (Canada):  
UN1710, TRICHLOROETHYLENE, 6.1, III

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

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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](http://www.P65Warnings.ca.gov).

### 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)

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## SECTION 16. OTHER INFORMATION

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### Further information

#### NFPA:

|                 |   |
|-----------------|---|
| HEALTH          | 2 |
| FLAMMABILITY    | 0 |
| INSTABILITY     | 0 |
| SPECIAL HAZARD. |   |

0 = not significant, 1 =Slight,  
2 = Moderate, 3 = High  
4 = Extreme

#### 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

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wash before reuse.

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

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

|                |            |
|----------------|------------|
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