# ZEP ELECTRONICS CLEANER

Version 4.1 Revision Date 10/01/2023 Print Date 04/27/2025

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

Material name : ZEP ELECTRONICS CLEANER

Material number : 00000000001047442

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 - 877-428-9937For a Medical Emergency: 877-541-2016 Toll Free - All Calls RecordedFor a Transportation: CHEMTREC: 800-424-9300 - All Calls Recorded.EmergencyIn the District of Columbia 202-483-7616

Recommended use of the chemical and restrictions on use

#### **SECTION 2. HAZARDS IDENTIFICATION**

## **Emergency Overview**

| Appearance | Aerosol containing a liquefied gas |
|------------|------------------------------------|
| Colour     | clear                              |
| Odour      | solvent-like                       |

## **GHS Classification**

Flammable aerosols : Category 1
Gases under pressure : Liquefied gas
Skin irritation : Category 2

Specific target organ toxicity -

single exposure

Signal word

Hazard statements

: Category 3 (Central nervous system)

#### **GHS** label elements

Hazard pictograms :







Flame

: Danger

: H222 Extremely flammable aerosol.

H280 Contains gas under pressure; may explode if heated.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

Precautionary statements : **Prevention:** 

Version 4.1 Revision Date 10/01/2023 Print Date 04/27/2025

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P211 Do not spray on an open flame or other ignition source. P251 Pressurized container: Do not pierce or burn, even after use.

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.

#### 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.

P332 + P313 If skin irritation occurs: 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.

P410 + P412 Protect from sunlight. Do not expose to

temperatures exceeding 50 °C/ 122 °F.

## Disposal:

P501 Dispose of contents/container in accordance with local regulation.

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

## **Hazardous components**

| Chemical name                           | CAS-No.    | Concentration [%] |
|---|------------|-------------------|
| 1,1-difluoroethane                      | 75-37-6    | >= 50 - < 70      |
| Naphtha (petroleum), hydrotreated light | 64742-49-0 | >= 30 - < 50      |
| propan-2-ol                             | 67-63-0    | >= 3 - < 5        |
| heptane                                 | 142-82-5   | >= 1 - < 3        |

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 with soap and water.

Wash off immediately with plenty of water for at least 15

# ZEP ELECTRONICS CLEANER

Version 4.1 Revision Date 10/01/2023 Print Date 04/27/2025

minutes.

If on clothes, remove clothes.

In case of eye contact : Remove contact lenses.

Protect unharmed eye.

Keep eye wide open while rinsing.

If eve irritation persists, consult a specialist, If in eyes, rinse with water for 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.

Most important symptoms and effects, both acute and

delayed

Effects are immediate and delayed.

Symptoms may include irritation, redness, pain, and rash. Symptoms may include central nervous system depression,

resulting in headache, nausea and/or dizziness.

Effects are dependent on exposure (dose, concentration,

contact time).

Causes skin irritation.

May cause drowsiness or dizziness.

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 : Alcohol-resistant foam

Carbon dioxide (CO2)

Dry chemical

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

Fluorine compounds

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. For safety reasons in case of fire, cans should be stored

separately in closed containments.

Use a water spray to cool fully closed containers.

Version 4.1 Revision Date 10/01/2023 Print Date 04/27/2025

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.

Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas.

Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

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

: Sweep up or vacuum up spillage and collect in suitable

container for disposal.

Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

#### **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.

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.

Always replace cap after use.

Conditions for safe storage : BEWARE: Aerosol is pressurized. Keep away from direct sun

exposure and temperatures over 50 °C. Do not open by force or throw into fire even after use. Do not spray on flames or

red-hot objects. No smoking.

Observe label precautions.

Electrical installations / working materials must comply with

the technological safety standards.

Keep in a dry, cool and well-ventilated place.

Materials to avoid : Strong oxidizing agents

## **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Components with workplace control parameters

Version 4.1 Revision Date 10/01/2023 Print Date 04/27/2025

| Components         | CAS-No.  | Value type<br>(Form of<br>exposure) | Control parameters / Permissible concentration | Basis     |
|--------------------|----------|-------------------------------------|--|-----------|
| 1,1-difluoroethane | 75-37-6  | TWA                                 | 1,000 ppm                                      | US WEEL   |
| propan-2-ol        | 67-63-0  | TWA                                 | 200 ppm  | ACGIH     |
|                    |          | STEL                                | 400 ppm  | ACGIH     |
|                    |          | TWA                                 | 400 ppm<br>980 mg/m3                           | NIOSH REL |
|                    |          | ST                                  | 500 ppm<br>1,225 mg/m3                         | NIOSH REL |
|                    |          | TWA                                 | 400 ppm<br>980 mg/m3                           | OSHA Z-1  |
|                    |          | TWA                                 | 400 ppm<br>980 mg/m3                           | OSHA P0   |
|                    |          | STEL                                | 500 ppm<br>1,225 mg/m3                         | OSHA P0   |
|                    |          | PEL                                 | 400 ppm<br>980 mg/m3                           | CAL PEL   |
|                    |          | STEL                                | 500 ppm<br>1,225 mg/m3                         | CAL PEL   |
| heptane            | 142-82-5 | TWA                                 | 85 ppm<br>350 mg/m3                            | NIOSH REL |
|                    |          | С                                   | 440 ppm<br>1,800 mg/m3                         | NIOSH REL |
|                    |          | TWA                                 | 500 ppm<br>2,000 mg/m3                         | OSHA Z-1  |
|                    |          | TWA                                 | 400 ppm<br>1,600 mg/m3                         | OSHA P0   |
|                    |          | STEL                                | 500 ppm<br>2,000 mg/m3                         | OSHA P0   |
|                    |          | PEL                                 | 400 ppm<br>1,600 mg/m3                         | CAL PEL   |
|                    |          | STEL                                | 500 ppm<br>2,000 mg/m3                         | CAL PEL   |
|                    |          | TWA                                 | 400 ppm  | ACGIH     |
|                    |          | STEL                                | 500 ppm  | ACGIH     |

## **Biological occupational exposure limits**

| Component   | CAS-No. | Control    | Biological | Sampling | Permissible   | Basis     |
|-------------|---------|------------|------------|----------|---------------|-----------|
|             |         | parameters | specimen   | time     | concentration |           |
| PROPAN-2-OL | 67-63-0 | Acetone    | Urine      | End of   | 40 mg/l       | ACGIH BEI |
|             |         |            |            | 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.

# ZEP ELECTRONICS CLEANER

Version 4.1 Revision Date 10/01/2023 Print Date 04/27/2025

Hand protection

Material Protective gloves

The suitability for a specific workplace should be discussed Remarks

with the producers of the protective gloves.

: Eye wash bottle with pure water Eye protection

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.

When using do not eat or drink. Hygiene measures

When using do not smoke.

Wash hands before breaks and at the end of workday.

#### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : Aerosol containing a liquefied gas

Colour clear

Odour solvent-like

рΗ No data available Melting point/freezing point No data available **Boiling point** No data available

Flash point

Not applicable

Evaporation rate : No data available

Flammability (solid, gas,

liquid)

: Extremely flammable aerosol.

Upper explosion limit : No data available Lower explosion limit : No data available Vapour pressure No data available

: 0.69 g/cm3 Density

Solubility(ies)

Water solubility : partly soluble Partition coefficient: n-

octanol/water

No data available

Auto-ignition temperature : not determined Thermal decomposition : No data available

Viscosity

: No data available Viscosity, kinematic

Heat of combustion : 22.99 kJ/g

Version 4.1 Revision Date 10/01/2023 Print Date 04/27/2025

## **SECTION 10. STABILITY AND REACTIVITY**

Reactivity : Stable

Chemical stability : Stable under normal conditions.

Possibility of hazardous

reactions

: Vapours may form explosive mixture with air.

No decomposition if used as directed.

Conditions to avoid : Heat, flames and sparks.

Extremes of temperature and direct sunlight.

Incompatible materials : Strong oxidizing agents

Hazardous decomposition

products

: Carbon oxides

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

## **Potential Health Effects**

Aggravated Medical

Condition

: None known.

Symptoms of Overexposure : Effects are immediate and delayed.

Symptoms may include irritation, redness, pain, and rash. Symptoms may include central nervous system depression.

resulting in headache, nausea and/or dizziness.

Effects are dependent on exposure (dose, concentration,

contact time).

Causes skin irritation.

May cause drowsiness or dizziness.

Review section 2 of SDS to see all potential hazards. Treat symptomatically. Symptoms may be delayed.

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 No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by ACGIH.

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 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.

# ZEP ELECTRONICS CLEANER

Version 4.1 Revision Date 10/01/2023 Print Date 04/27/2025

## **Acute toxicity**

**Product:** 

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

Method: Calculation method

**Components:** 

1,1-difluoroethane:

Acute inhalation toxicity : LC50 Mouse: 977,000 mg/l

Exposure time: 2 h

propan-2-ol:

Acute oral toxicity : LD50 Oral Rat: 4,396 mg/kg

Method: Calculation method

heptane:

Acute inhalation toxicity : LC50 Rat: 103 mg/l

Exposure time: 4 h

Skin corrosion/irritation

**Product:** 

Remarks: Irritating to skin.

Serious eye damage/eye irritation

**Product:** 

Remarks: May irritate 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

**Further information** 

# ZEP ELECTRONICS CLEANER

Version 4.1 Revision Date 10/01/2023 Print Date 04/27/2025

**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 Components: propan-2-ol:

Partition coefficient: n-

octanol/water heptane:

Partition coefficient: n-

octanol/water

: log Pow: 0.05

: log Pow: 5

Mobility in soil

No data available

#### Other adverse effects

No data available

Product:

Regulation 40 CFR Protection of Environment; Part 82 Protection of

: Remarks: No data available

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

: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Very toxic to aquatic life., Harmful to aquatic life with long lasting

effects.

## **SECTION 13. DISPOSAL CONSIDERATIONS**

## **Disposal methods**

## ZEP ELECTRONICS CLEANER

Version 4.1 Revision Date 10/01/2023 Print Date 04/27/2025

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 as hazardous waste in compliance with local and

national regulations.

Contaminated packaging : Empty remaining contents.

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

Do not burn, or use a cutting torch on, the empty drum.

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

Transportation Regulation: 49 CFR (USA):

UN1950, Aerosols, flammable, 2.1, - Limited quantity

Transportation Regulation: IMDG (Vessel): UN1950, AEROSOLS, 2.1, - Limited quantity

Transportation Regulation: IATA (Cargo Air):

UN1950, Aerosols, flammable, 2.1, - Limited quantity

Transportation Regulation: IATA (Passenger Air): UN1950, Aerosols, flammable, 2.1, - Limited quantity

Transportation Regulation: TDG (Canada):

UN1950, AEROSOLS, FLAMMABLE, 2.1, - 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.

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 | Calculated product RQ |
|------------|----------|--------------|-----------------------|
|            |          | (lbs)        | (lbs)                 |
| toluene    | 108-88-3 | 1000         | *                     |

<sup>\*:</sup> Calculated RQ exceeds reasonably attainable upper limit.

Version 4.1 Revision Date 10/01/2023 Print Date 04/27/2025

## SARA 304 Extremely Hazardous Substances Reportable Quantity

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

SARA 311/312 Hazards : Flammable (gases, aerosols, liquids, or solids)

Gases under pressure 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 : 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



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

information go to 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)

## **SECTION 16. OTHER INFORMATION**

Version 4.1 Revision Date 10/01/2023 Print Date 04/27/2025

#### **Further information**

#### NFPA:

| HEALTH          | 2 |
|-----------------|---|
| FLAMMABILITY    | 4 |
| INSTABILITY     | 0 |
| SPECIAL HAZARD. |   |

0 = not significant, 1 = Slight,

2 = Moderate, 3 = High

4 = Extreme

#### HMIS III:

| HEALTH          | 2 |
|-----------------|---|
| FLAMMABILITY    | 3 |
| PHYSICAL HAZARD | 3 |

0 = not significant, 1 = Slight,

2 = Moderate, 3 = High

4 = Extreme, \* = Chronic

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

Hazard pictograms







Signal word

Hazard statements

Danger:

Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Causes skin irritation. May cause drowsiness or dizziness.

Precautionary statements

**Prevention:** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. 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.

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 skin irritation occurs: Get medical advice/ attention. Take off contaminated clothing and wash before reuse.

**Storage:** Store in a well-ventilated place. Keep container tightly closed. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.

# SAFETY DATA SHEET ZEP ELECTRONICS CLEANER

Version 4.1 Revision Date 10/01/2023 Print Date 04/27/2025

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

| Version:       | 4.1        |
|----------------|------------|
| Revision Date: | 10/01/2023 |
| Print Date:    | 04/27/2025 |

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