

# ZEP I D RED AERO DZ

Version 3.0 Print Date 05/06/2016 Revision Date 08/31/2015

# SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Material name ZEP I D RED AERO DZ

Material number 000000000000009601

Manufacturer or supplier's details

Zep Inc. Company

1310 Seaboard Industrial Blvd., NW Address

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

# **SECTION 2. HAZARDS IDENTIFICATION**

### **Emergency Overview**

| Appearance | Aerosol containing a compressed gas |
|------------|-------------------------------------|
| Colour     | clear                               |
| Odour      | hydrocarbon-like                    |

## **GHS Classification**

Flammable aerosols : Category 1 Gases under pressure : Compressed gas Skin irritation : Category 2 Reproductive toxicity : Category 2 Specific target organ toxicity - : Category 1

single exposure

Specific target organ toxicity -

single exposure

Specific target organ toxicity -

repeated exposure

: Category 2

(Inhalation)

# **GHS** Label element

Hazard pictograms





: Category 3 (Central nervous system)





Signal word Danger

Hazard statements : H222 Extremely flammable aerosol.

H280 Contains gas under pressure; may explode if heated.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.





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H361 Suspected of damaging fertility or the unborn child.

H370 Causes damage to organs.

H373 May cause damage to organs through prolonged or

repeated exposure if inhaled.

Precautionary statements : Prevention:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P210 Keep away from heat/sparks/open flames/hot surfaces. 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.

P260 Do not breathe dust/fume/ gas/mist/vapours/ spray.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves.

P281 Use personal protective equipment as required.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P304 + P340 + P312 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell. P307 + P311 IF exposed: Call a POISON CENTER or doctor/ physician.

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

P362 Take off contaminated clothing and wash before reuse.

Storage:

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

P405 Store locked up.

P410 + P412 Protect from sunlight. Do not expose to

temperatures exceeding 50 °C/ 122 °F.

Disposal:

Dispose of contents/container in accordance with local regulation.

#### **Potential Health Effects**

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 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.



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

Substance / Mixture : Mixture

## **Hazardous components**

| Chemical Name                           | CAS-No.    | Concentration [%] |
|---|------------|-------------------|
| Naphtha (petroleum), hydrotreated light | 64742-49-0 | >= 70 - < 90      |
| ethanol                                 | 64-17-5    | >= 5 - < 10       |
| carbon dioxide                          | 124-38-9   | >= 1 - < 5        |
| heptane                                 | 142-82-5   | >= 1 - < 5        |
| methanol                                | 67-56-1    | >= 1 - < 5        |
| propan-2-ol                             | 67-63-0    | >= 1 - < 5        |

### **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

minutes.

If on clothes, remove clothes.

In case of eye contact : Remove contact lenses.

Protect unharmed eye.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

Rinse immediately with plenty of water for at least 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. Take victim immediately to hospital.

### **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media : Dry chemical

Water spray jet Carbon dioxide (CO2) Alcohol-resistant foam

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.





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Hazardous combustion

products

: Carbon dioxide (CO2) Carbon monoxide

Smoke

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.

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

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

acid binder, universal binder, sawdust).

Sweep up or vacuum up spillage and collect in suitable

container for disposal.

## **SECTION 7. HANDLING AND STORAGE**

Advice on safe handling : 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.

Do not breathe vapours or spray mist.

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

: BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 50 °C. Do not open by force





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or throw into fire even after use. Do not spray on flames or

red-hot objects. No smoking.

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

Observe label precautions.

Electrical installations / working materials must comply with

the technological safety standards.

Materials to avoid : Keep away from oxidizing agents and strongly acid or alkaline

materials.

# SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Components with workplace control parameters

| Components     | CAS-No.  | Value type<br>(Form of<br>exposure) | Control parameters / Permissible concentration | Basis     |
|----------------|----------|-------------------------------------|--|-----------|
| ethanol        | 64-17-5  | TWA                                 | 1,000 ppm                                      | ACGIH     |
|                |          | TWA                                 | 1,000 ppm<br>1,900 mg/m3                       | NIOSH REL |
|                |          | TWA                                 | 1,000 ppm<br>1,900 mg/m3                       | OSHA Z-1  |
|                |          | TWA                                 | 1,000 ppm<br>1,900 mg/m3                       | OSHA P0   |
| carbon dioxide | 124-38-9 | TWA                                 | 5,000 ppm                                      | ACGIH     |
|                |          | STEL                                | 30,000 ppm                                     | ACGIH     |
|                |          | TWA                                 | 5,000 ppm<br>9,000 mg/m3                       | NIOSH REL |
|                |          | ST                                  | 30,000 ppm<br>54,000 mg/m3                     | NIOSH REL |
|                |          | TWA                                 | 5,000 ppm<br>9,000 mg/m3                       | OSHA Z-1  |
|                |          | TWA                                 | 10,000 ppm<br>18,000 mg/m3                     | OSHA P0   |
|                |          | STEL                                | 30,000 ppm<br>54,000 mg/m3                     | OSHA P0   |
| 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   |
| methanol       | 67-56-1  | TWA                                 | 200 ppm  | ACGIH     |
|                |          | STEL                                | 250 ppm  | ACGIH     |
|                |          | TWA                                 | 200 ppm<br>260 mg/m3                           | NIOSH REL |
|                |          | ST                                  | 250 ppm<br>325 mg/m3                           | NIOSH REL |
|                |          | TWA                                 | 200 ppm  | OSHA Z-1  |



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|             |         |      | 260 mg/m3              |           |
|-------------|---------|------|------------------------|-----------|
|             |         | STEL | 250 ppm<br>325 mg/m3   | OSHA P0   |
|             |         | TWA  | 200 ppm<br>260 mg/m3   | OSHA P0   |
| 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   |

# Biological occupational exposure limits

| Component           | CAS-No.  | Control parameters | Biological specimen | Sampling time  | Permissible concentration | Basis       |
|---------------------|----------|--------------------|---------------------|----------------|---------------------------|-------------|
| Methanol            | 67-56-1  | Methanol           | Urine               | End of         | 15 mg/l                   | ACGIH BEI   |
| IVIETIATIO          | 07-30-1  | IVICTIATIO         | Office              | shift (As      | 13 mg/i                   | ACGIII BLI  |
|                     |          |                    |                     | soon as        |                           |             |
|                     |          |                    |                     | possible       |                           |             |
|                     |          |                    |                     | after          |                           |             |
|                     |          |                    |                     | exposure       |                           |             |
|                     |          |                    |                     | ceases)        |                           |             |
| METHYLBENZENE       | 108-88-3 | Toluene            | In blood            | Prior to       | 0.02 mg/l                 | ACGIH BEI   |
|                     |          |                    |                     | last shift     |                           |             |
|                     |          |                    |                     | of             |                           |             |
|                     |          |                    |                     | workwee        |                           |             |
|                     |          |                    |                     | k              |                           |             |
| METHYLBENZENE       |          | Toluene            | Urine               | End of         | 0.03 mg/l                 | ACGIH BEI   |
|                     |          |                    |                     | shift (As      |                           |             |
|                     |          |                    |                     | soon as        |                           |             |
|                     |          |                    |                     | possible       |                           |             |
|                     |          |                    |                     | after exposure |                           |             |
|                     |          |                    |                     | ceases)        |                           |             |
| METHYLBENZENE       |          | o-Cresol           | Urine               | End of         | 0.3 mg/g                  | ACGIH BEI   |
|                     |          | 0 010301           | Onno                | shift (As      | 0.0 mg/g                  | /\OOIII BEI |
|                     |          |                    |                     | soon as        |                           |             |
|                     |          |                    |                     | possible       |                           |             |
|                     |          |                    |                     | after          |                           |             |
|                     |          |                    |                     | exposure       |                           |             |
|                     |          |                    |                     | ceases)        |                           |             |
| Remarks: Creatinine |          |                    |                     |                |                           |             |
| PROPAN-2-OL         | 67-63-0  | Acetone            | Urine               | End of         | 40 mg/l                   | ACGIH BEI   |
|                     |          |                    |                     | shift at       |                           |             |
|                     |          |                    |                     | end of         |                           |             |
|                     |          |                    |                     | workwee        |                           |             |
|                     |          |                    |                     | k              |                           |             |
| Methanol            | 67-56-1  | Methanol           | Urine               | End of         | 15 mg/l                   | ACGIH BEI   |
|                     |          |                    |                     | shift (As      |                           |             |
|                     |          |                    |                     | soon as        |                           |             |
|                     |          |                    |                     | possible       |                           |             |



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|             |         |         |       | after exposure                           |         |           |
|-------------|---------|---------|-------|--|---------|-----------|
| PROPAN-2-OL | 67-63-0 | Acetone | Urine | ceases) End of shift at end of workwee k | 40 mg/l | ACGIH BEI |

### Personal protective equipment

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory

equipment.

Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

Hand protection

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

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 : Aerosol containing a compressed gas

Colour : clear

Odour : hydrocarbon-like
Odour Threshold : No data available
pH : Not applicable
Melting point/freezing point : No data available
Boiling point : No data available

Flash point :

Not applicable

Evaporation rate : > 1

n-Butyl Acetate = 1.0

Flammability (solid, gas) : Extremely flammable aerosol.



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Upper explosion limit : 6.7 %(V)

Lower explosion limit : 1.2 %(V)

Vapour pressure : No data available
Relative vapour density : No data available

Density : 0.69 g/cm3

Solubility(ies)

Water solubility : insoluble

Solubility in other solvents : not determined

Auto-ignition temperature : not determined

Thermal decomposition : No data available

Viscosity

Viscosity, kinematic : No data available

Heat of combustion : 40.71 kJ/g

# **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 stored and applied as directed.

Conditions to avoid : Heat, flames and sparks.

Extremes of temperature and direct sunlight.

Incompatible materials : Strong oxidizing agents

Hazardous decomposition

products

: Carbon monoxide, carbon dioxide and unburned

hydrocarbons (smoke).

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

## Acute toxicity

## Product:

Acute oral toxicity : Acute toxicity estimate : 3,584 mg/kg

Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate : > 10 mg/l



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Exposure time: 4 h

Test atmosphere: dust/mist Method: Calculation method

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

Method: Calculation method

Components:

ethanol:

Acute oral toxicity : LD50 Oral Rat: 7,060 mg/kg

Acute inhalation toxicity : LC50 Rat: 124.7 mg/l

Exposure time: 4 h

heptane:

Acute inhalation toxicity : LC50 Rat: 103,000 mg/l

Exposure time: 4 h

propan-2-ol:

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

Method: Calculation method

Skin corrosion/irritation

**Product:** 

Remarks: Irritating to skin.

Serious eye damage/eye irritation

**Product:** 

Remarks: Vapours may cause irritation to the eyes, respiratory system and the skin.

Respiratory or skin sensitisation

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

Naphtha (petroleum), hydrotreated light:

ethanol:

carbon dioxide:

heptane:

methanol:

propan-2-ol:

STOT - single exposure

No data available



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## STOT - repeated exposure

No data available

### Aspiration toxicity

No data available

### **Further information**

### **Product:**

Remarks: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting., Concentrations substantially above the TLV value may cause narcotic effects., Solvents may degrease the skin.

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

## **Ecotoxicity**

No data available

## Persistence and degradability

No data available

### Bioaccumulative potential

# **Components:**

heptane:

Partition coefficient: n- : log Pow: > 3.0

octanol/water

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

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., May cause long lasting harmful effects to

aquatic life.



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### **SECTION 13. DISPOSAL CONSIDERATIONS**

Disposal methods

Waste from residues : Dispose of in accordance with local regulations.

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.

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): ORM-D, CONSUMER COMMODITY

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, 2.1, - Limited quantity

### SECTION 15. REGULATORY INFORMATION

# 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.

# SARA 304 Extremely Hazardous Substances Reportable Quantity

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

SARA 311/312 Hazards : Sudden Release of Pressure Hazard

Chronic Health Hazard

Fire Hazard





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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:

methanol 67-56-1 2.79 % toluene 108-88-3 1.6936 %

California Prop 65 WARNING! This product contains a chemical known to the

State of California to cause cancer.

benzene 71-43-2

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive

harm.

 methanol
 67-56-1

 toluene
 108-88-3

 benzene
 71-43-2

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

TSCA On TSCA Inventory

All components of this product are on the Canadian DSL On the inventory, or in compliance with the inventory

**NZIoC** Not in compliance with the inventory

PICCS On the inventory, or in compliance with the inventory IECSC On the inventory, or in compliance with the inventory

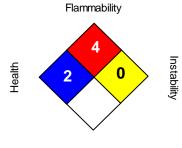
# **Inventory Acronym and Validity Area Legend:**

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIOC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

## **SECTION 16. OTHER INFORMATION**

# **Further information**

NFPA:



Special hazard.

# HMIS III:

| HEALTH          | 2* |
|-----------------|----|
| FLAMMABILITY    | 4  |
| PHYSICAL HAZARD | 2  |

0 = not significant, 1 = Slight,

2 = Moderate, 3 = High

4 = Extreme, \* = Chronic

OSHA GHS Label Information:



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Hazard pictograms









Signal word

Hazard statements

Danger:

Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Causes skin irritation. May cause drow siness or dizziness. Suspected of damaging fertility or the unborn child. Causes damage to organs. May cause damage to organs

through prolonged or repeated exposure if inhaled.

Precautionary statements

Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep aw ay from heat/sparks/open flames/hot surfaces. No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Do not breathe dust/fume/gas/mist/vapours/spray. Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves. Use personal protective equipment as required.

Response: IF ON SKIN: Wash with plenty of soap and water. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. IF exposed: Call a POISON CENTER or doctor/physician. 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. Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F. **Disposal:** Dispose of contents/container in accordance with local regulation.

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