## SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Material name : ZEP I D RED_CANADIAN_12CS

Material number : 9611C

### Manufacturer or supplier's details

Company : Zep Inc.

Address : 11627 - 178 Street
Edmonton, Alberta T5S 1N6
Canada

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 |
| **For a Transportation Emergency** | : | CHEMTREC: 800-424-9300 - All Calls Recorded. |

### Recommended use of the chemical and restrictions on use

Recommended use : Degreaser

## 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
Specific target organ toxicity - single exposure : Category 1
Specific target organ toxicity - single exposure : Category 3 (Central nervous system)
Aspiration hazard : Category 1

### GHS label elements

Hazard pictograms :

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.
H370 Causes damage to organs.
H304 May be fatal if swallowed and enters airways.

Precautionary statements : **Prevention:**
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 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.
**Response:**
P302 + P352 IF ON SKIN: Wash with plenty of 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.
P308 + P311 IF exposed or concerned: Call a POISON CENTER/doctor.
P332 + P313 If skin irritation occurs: Get medical advice/ attention.
P362 + P364 Take off contaminated clothing and wash it 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:**
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 [%] |
|---|---|---|
| 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.<br>Do not leave the victim unattended. |
| If inhaled | : | Consult a physician after significant exposure.<br>If unconscious place in recovery position and seek medical advice. |
| In case of skin contact | : | If skin irritation persists, call a physician.<br>Wash off immediately with plenty of water for at least 15 minutes.<br>If on clothes, remove clothes. |
| In case of eye contact | : | Remove contact lenses.<br>Protect unharmed eye.<br>Keep eye wide open while rinsing.<br>If eye irritation persists, consult a specialist.<br>Rinse immediately with plenty of water for at least 15 minutes. |
| If swallowed | : | Keep respiratory tract clear.<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.<br>Take victim immediately to hospital. |
| Most important symptoms and effects, both acute and delayed | : | Effects are immediate and delayed.<br>Symptoms of overexposure may include disorientation; dizziness; and confusion. May progress to unconsciousness, paralysis, and convulsions.<br><br>Symptoms may include irritation, redness, pain, and rash.<br>Effects are dependent on exposure (dose, concentration, contact time).<br>Symptoms may include shortness of breath, dry cough, and irritation of the nose, eyes, lips, mouth, and throat.<br>Causes skin irritation.<br>May cause drowsiness or dizziness.<br>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 | : | Dry chemical<br>Water spray jet<br>Carbon dioxide (CO2)<br>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. |
| Hazardous combustion | : | Carbon dioxide (CO2) |

| | | |
|---|---|---|
| products | | Carbon monoxide<br>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.<br>Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.<br>For safety reasons in case of fire, cans should be stored separately in closed containments.<br>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.<br>Ensure adequate ventilation.<br>Remove all sources of ignition.<br>Evacuate personnel to safe areas.<br>Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. |
| Environmental precautions | : | Prevent product from entering drains.<br>Prevent further leakage or spillage if safe to do so.<br>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).<br>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.<br>Avoid contact with skin and eyes.<br>For personal protection see section 8.<br>Smoking, eating and drinking should be prohibited in the application area.<br>Do not breathe vapours or spray mist.<br>Take precautionary measures against static discharges.<br>Provide sufficient air exchange and/or exhaust in work rooms.<br>Dispose of rinse water in accordance with local and national regulations.<br>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.<br>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 (Form of exposure) | Control parameters / Permissible concentration | Basis |
|---|---|---|---|---|
| ethanol | 64-17-5 | TWA | 1,000 ppm<br>1,880 mg/m3 | CA AB OEL |
| | | STEL | 1,000 ppm | CA BC OEL |
| | | TWAEV | 1,000 ppm<br>1,880 mg/m3 | CA QC OEL |
| | | TWA | 1,000 ppm | ACGIH |
| | | STEL | 1,000 ppm | ACGIH |
| carbon dioxide | 124-38-9 | TWA | 5,000 ppm<br>9,000 mg/m3 | CA AB OEL |
| | | STEL | 30,000 ppm<br>54,000 mg/m3 | CA AB OEL |
| | | TWA | 5,000 ppm | CA BC OEL |
| | | STEL | 15,000 ppm | CA BC OEL |
| | | STEV | 30,000 ppm<br>54,000 mg/m3 | CA QC OEL |
| | | TWAEV | 5,000 ppm<br>9,000 mg/m3 | CA QC OEL |
| | | TWA | 5,000 ppm | ACGIH |
| | | STEL | 30,000 ppm | ACGIH |
| heptane | 142-82-5 | TWA | 400 ppm | CA BC OEL |
| | | STEL | 500 ppm | CA BC OEL |
| | | TWAEV | 400 ppm<br>1,640 mg/m3 | CA QC OEL |
| | | STEV | 500 ppm<br>2,050 mg/m3 | CA QC OEL |
| methanol | 67-56-1 | TWA | 200 ppm<br>262 mg/m3 | CA AB OEL |
| | | STEL | 250 ppm<br>328 mg/m3 | CA AB OEL |
| | | TWA | 200 ppm | CA BC OEL |
| | | STEL | 250 ppm | CA BC OEL |
| | | TWAEV | 200 ppm<br>262 mg/m3 | CA QC OEL |
| | | STEV | 250 ppm<br>328 mg/m3 | CA QC OEL |
| | | TWA | 200 ppm | ACGIH |
| | | STEL | 250 ppm | ACGIH |
| propan-2-ol | 67-63-0 | TWA | 200 ppm<br>492 mg/m3 | CA AB OEL |

| | | | | |
|---|---|---|---|---|
| | | STEL | 400 ppm<br>984 mg/m3 | CA AB OEL |
| | | TWA | 200 ppm | CA BC OEL |
| | | STEL | 400 ppm | CA BC OEL |
| | | TWAEV | 400 ppm<br>983 mg/m3 | CA QC OEL |
| | | STEV | 500 ppm<br>1,230 mg/m3 | CA QC OEL |
| | | TWA | 200 ppm | ACGIH |
| | | STEL | 400 ppm | ACGIH |

**Biological occupational exposure limits**

| Components | CAS-No. | Control parameters | Biological specimen | Sampling time | Permissible concentration | Basis |
|---|---|---|---|---|---|---|
| Methanol | 67-56-1 | Methanol | Urine | End of shift (As soon as possible after exposure ceases) | 15 mg/l | ACGIH BEI |
| PROPAN-2-OL | 67-63-0 | Acetone | Urine | End of shift at end of workweek | 40 mg/l | 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 : 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 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 | : | -18 °C |
| Evaporation rate | : | > 1<br>n-Butyl Acetate = 1.0 |
| Flammability (solid, gas) | : | Extremely flammable aerosol. |
| 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 |
| Partition coefficient: n-octanol/water | : | No data available |
| 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 | : | Vapours may form explosive mixture with air. |

| | | |
|---|---|---|
| reactions | | No decomposition if stored and applied as directed. |
| Conditions to avoid | : | Heat, flames and sparks.<br>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

**Potential Health Effects**

| | | |
|---|---|---|
| Aggravated Medical Condition | : | None known. |
| Symptoms of Overexposure | : | Effects are immediate and delayed.<br>Symptoms of overexposure may include disorientation; dizziness; and confusion. May progress to unconsciousness, paralysis, and convulsions.<br><br>Symptoms may include irritation, redness, pain, and rash.<br>Effects are dependent on exposure (dose, concentration, contact time).<br>Symptoms may include shortness of breath, dry cough, and irritation of the nose, eyes, lips, mouth, and throat. |

**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.

**Acute toxicity**

**Product:**

| | | |
|---|---|---|
| Acute oral toxicity | : | Acute toxicity estimate : 3,552 mg/kg<br>Method: Calculation method |
| Acute inhalation toxicity | : | Acute toxicity estimate : > 10 mg/l<br>Exposure time: 4 h<br>Test atmosphere: dust/mist<br>Method: Calculation method |
| Acute dermal toxicity | : | Acute toxicity estimate : > 5,000 mg/kg<br>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 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: 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**

**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**

**Product:**

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

**Components:**

**heptane :**

| | | |
|---|---|---|
| Partition coefficient: n-octanol/water | : | log Pow: 5 |

**Mobility in soil**

No data available

**Other adverse effects**

No data available

**Product:**

| | | |
|---|---|---|
| Additional ecological information | : | An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Toxic to aquatic life with long lasting effects. |

## SECTION 13. DISPOSAL CONSIDERATIONS

**Disposal methods**

| | | |
|---|---|---|
| Waste from residues | : | The product should not be allowed to enter drains, water courses or the soil.<br>Do not contaminate ponds, waterways or ditches with chemical or used container.<br>Dispose of in accordance with local regulations. |
| Contaminated packaging | : | Empty remaining contents.<br>Dispose of as unused product.<br>Do not re-use empty containers.<br>Do not burn, or use a cutting torch on, the empty drum. |

## SECTION 14. TRANSPORT INFORMATION

Transportation Regulation (TDG) / Règlement Pour Le Transport (TMD): (Canada):
UN1950, AEROSOLS, FLAMMABLE, 2.1, - Limited quantity

Transportation Regulation / Règlement Pour Le Transport: IMDG (Vessel):
UN1950, AEROSOLS, 2.1, - Limited quantity

Transportation Regulation / Règlement Pour Le Transport: IATA (Cargo Air):
UN1950, AEROSOLS, FLAMMABLE, 2.1, - Limited quantity

Transportation Regulation / Règlement Pour Le Transport: IATA (Passenger Air):
UN1950, AEROSOLS, FLAMMABLE, 2.1, - Limited quantity

Transportation Regulation / Règlement Pour Le Transport: 49 CFR (USA):
UN1950, AEROSOLS, FLAMMABLE, 2.1, - Limited quantity

The product as delivered to the customer conforms to packaging requirements for shipment by road under Transport Dangerous Goods (TDG) Canada 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

This product has been classified according to the hazard criteria of the HPR and the SDS contains all of the information required by the HPR.

**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

WHMIS - GHS Label Information:

Hazard pictograms :

Signal word : **Danger:**

Hazard statements : Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Causes skin irritation. May cause drowsiness or dizziness. Causes damage to organs. May be fatal if swallowed and enters airways.

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. 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.
**Response:** IF ON SKIN: Wash with plenty of water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell. IF exposed or concerned: Call a POISON CENTER/doctor. If skin irritation occurs: Get medical advice/ attention. Take off contaminated clothing and wash it 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.
**Disposal:** Dispose of contents/container in accordance with local regulation.

| | |
|---|---|
| Version: | 2.0 |
| Revision Date: | 05/15/2017 |
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