

SAFETY DATA SHEET

ZEP AVIATION POWER DEGREASER

Version 1.3

Revision Date 10/01/2023

Print Date 04/28/2025

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Material name : ZEP AVIATION POWER DEGREASER

Material number : H02300C

Manufacturer or supplier's details

Company : Zep Inc.

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

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.

Recommended use of the chemical and restrictions on use

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

| | |
|------------|-------------------------------------|
| Appearance | Aerosol containing a compressed gas |
| Colour | colourless, light yellow |
| Odour | strong |

GHS Classification

Flammable aerosols : Category 1
Gases under pressure : Compressed gas
Skin irritation : Category 2
Eye irritation : Category 2A
Carcinogenicity : Category 2
Carcinogenicity : Category 2
Reproductive toxicity : Category 1B
Specific target organ toxicity - : Category 3 (Respiratory system, Central nervous system)
single exposure
Specific target organ toxicity - : Category 2
repeated exposure
(Inhalation)

GHS label elements

SAFETY DATA SHEET

ZEP AVIATION POWER DEGREASER

Version 1.3

Revision Date 10/01/2023

Print Date 04/28/2025

Hazard pictograms

:



Flame



Gas cylinder



Health hazard



Exclamation mark

Signal word

: Danger

Hazard statements

: H222 Extremely flammable aerosol.
H280 Contains gas under pressure; may explode if heated.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H351 Suspected of causing cancer.
H360 May damage fertility or the unborn child.
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, 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.
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 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 + P364 Take off contaminated clothing and wash it before reuse.
Storage:
P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.
P403 Store in a well-ventilated place.
Disposal:
P501 Dispose of contents/container in accordance with local regulation.

SAFETY DATA SHEET

ZEP AVIATION POWER DEGREASER

Version 1.3

Revision Date 10/01/2023

Print Date 04/28/2025

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

| Chemical name | CAS-No. | Concentration [%] |
|---------------------|----------|----------------------|
| 1-bromopropane | 106-94-5 | $\geq 80 - \leq 100$ |
| carbon dioxide | 124-38-9 | $\geq 1 - < 5$ |
| dimethoxymethane | 109-87-5 | $\geq 1 - < 5$ |
| 2-methylpropan-2-ol | 75-65-0 | $\geq 1 - < 5$ |
| 1,2-epoxybutane | 106-88-7 | $\geq 0.1 - < 1$ |

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.
If on clothes, remove clothes.
Wash off immediately with plenty of water for at least 15 minutes.
- In case of eye contact : Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye 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.
Take victim immediately to hospital.
- 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).
Suspected of causing cancer.
May damage fertility or the unborn child if inhaled.
Review section 2 of SDS to see all potential hazards.
- Notes to physician : Treat symptomatically. Symptoms may be delayed.

SECTION 5. FIREFIGHTING MEASURES

SAFETY DATA SHEET

ZEP AVIATION POWER DEGREASER

Version 1.3

Revision Date 10/01/2023

Print Date 04/28/2025

| | |
|---|--|
| Suitable extinguishing media | : Alcohol-resistant foam Carbon dioxide (CO ₂) 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 (CO ₂) Carbon monoxide Smoke Bromine compounds |
| Specific extinguishing methods | : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
| Further information | : 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 | : 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. |
|-------------------------|---|

SAFETY DATA SHEET

ZEP AVIATION POWER DEGREASER

Version 1.3

Revision Date 10/01/2023

Print Date 04/28/2025

Always replace cap after use.

Dispose of rinse water in accordance with local and national regulations.

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.
Keep container tightly closed in a dry and well-ventilated place.
Observe label precautions.
Electrical installations / working materials must comply with the technological safety standards.

Materials to avoid : Store and keep away from, oxidizing agents and acids.
Store and keep away from bases and alkalies.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

| Components | CAS-No. | Value type (Form of exposure) | Control parameters / Permissible concentration | Basis |
|---------------------|----------|----------------------------------|---|-----------|
| 1-bromopropane | 106-94-5 | TWA | 10 ppm 50 mg/m3 | CA AB OEL |
| | | TWA | 10 ppm | CA BC OEL |
| | | TWA | 0.1 ppm | ACGIH |
| carbon dioxide | 124-38-9 | TWA | 5,000 ppm 9,000 mg/m3 | CA AB OEL |
| | | STEL | 30,000 ppm 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 54,000 mg/m3 | CA QC OEL |
| | | TWAEV | 5,000 ppm 9,000 mg/m3 | CA QC OEL |
| | | TWA | 5,000 ppm | ACGIH |
| | | STEL | 30,000 ppm | ACGIH |
| dimethoxymethane | 109-87-5 | TWA | 1,000 ppm 3,110 mg/m3 | CA AB OEL |
| | | TWA | 1,000 ppm | CA BC OEL |
| | | STEL | 1,250 ppm | CA BC OEL |
| | | TWAEV | 1,000 ppm 3,110 mg/m3 | CA QC OEL |
| | | TWA | 1,000 ppm | ACGIH |
| 2-methylpropan-2-ol | 75-65-0 | TWA | 100 ppm 303 mg/m3 | CA AB OEL |
| | | TWA | 100 ppm | CA BC OEL |
| | | TWAEV | 100 ppm 303 mg/m3 | CA QC OEL |
| | | TWA | 100 ppm | ACGIH |

SAFETY DATA SHEET

ZEP AVIATION POWER DEGREASER

Version 1.3

Revision Date 10/01/2023

Print Date 04/28/2025

| | | | | |
|---------------------|----------|-------|----------------------------|-----------|
| 1-bromopropane | 106-94-5 | TWA | 10 ppm 50 mg/m3 | CA AB OEL |
| | | TWA | 10 ppm | CA BC OEL |
| | | TWA | 0.1 ppm | ACGIH |
| carbon dioxide | 124-38-9 | TWA | 5,000 ppm 9,000 mg/m3 | CA AB OEL |
| | | STEL | 30,000 ppm 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 54,000 mg/m3 | CA QC OEL |
| | | TWAEV | 5,000 ppm 9,000 mg/m3 | CA QC OEL |
| | | TWA | 5,000 ppm | ACGIH |
| | | STEL | 30,000 ppm | ACGIH |
| dimethoxymethane | 109-87-5 | TWA | 1,000 ppm 3,110 mg/m3 | CA AB OEL |
| | | TWA | 1,000 ppm | CA BC OEL |
| | | STEL | 1,250 ppm | CA BC OEL |
| | | TWAEV | 1,000 ppm 3,110 mg/m3 | CA QC OEL |
| | | TWA | 1,000 ppm | ACGIH |
| 2-methylpropan-2-ol | 75-65-0 | TWA | 100 ppm 303 mg/m3 | CA AB OEL |
| | | TWA | 100 ppm | CA BC OEL |
| | | TWAEV | 100 ppm 303 mg/m3 | CA QC OEL |
| | | TWA | 100 ppm | ACGIH |

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

: Tightly fitting safety goggles
Wear face-shield and protective suit for abnormal processing problems.

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.

SAFETY DATA SHEET

ZEP AVIATION POWER DEGREASER

Version 1.3

Revision Date 10/01/2023

Print Date 04/28/2025

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|--|---------------------------------------|
| Appearance | : Aerosol containing a compressed gas |
| Colour | : colourless, light yellow |
| Odour | : strong |
| Odour Threshold | : No data available |
| pH | : Not applicable |
| Melting point/freezing point | : No data available |
| Boiling point | : 71.11 °C |
| Flash point | : No data available |
| Evaporation rate | : > 1 n-Butyl Acetate = 1.0 |
| Flammability (solid, gas, liquid) | : Extremely flammable aerosol. |
| Upper explosion limit | : 8.5 %(V) |
| Lower explosion limit | : 4.6 %(V) |
| Vapour pressure | : 155 hPa (20 °C) |
| Relative vapour density | : No data available |
| Density | : 1.353 g/cm3 |
| Solubility(ies) | |
| Water solubility | : slightly soluble |
| 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 | : 16.7 kJ/g |

SECTION 10. STABILITY AND REACTIVITY

SAFETY DATA SHEET

ZEP AVIATION POWER DEGREASER

Version 1.3

Revision Date 10/01/2023

Print Date 04/28/2025

| | |
|------------------------------------|---|
| 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 | : Acids Oxidizing agents Bases |
| Hazardous decomposition products | : Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke). Hydrogen halides |

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).
Suspected of causing cancer.
May damage fertility or the unborn child if inhaled.
Review section 2 of SDS to see all potential hazards.
Treat symptomatically. Symptoms may be delayed.

Carcinogenicity:

IARC

Group 2B: Possibly carcinogenic to humans

1-bromopropane 106-94-5

1,2-epoxybutane 106-88-7

Group 2B: Possibly carcinogenic to humans

ACGIH

Confirmed animal carcinogen with unknown relevance to humans

1-bromopropane 106-94-5

Acute toxicity

Product:

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

SAFETY DATA SHEET

ZEP AVIATION POWER DEGREASER

Version 1.3

Revision Date 10/01/2023

Print Date 04/28/2025

Exposure time: 4 h
Test atmosphere: dust/mist
Method: Calculation method

Acute toxicity estimate : > 10 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: Calculation method

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

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

SAFETY DATA SHEET

ZEP AVIATION POWER DEGREASER

Version 1.3

Revision Date 10/01/2023

Print Date 04/28/2025

Ecotoxicity

No data available

Persistence and degradability

No data available

Bioaccumulative potential

Product:

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

Components:

1-bromopropane :

Partition coefficient: n-octanol/water : Pow: 2.1

2-methylpropan-2-ol :

Partition coefficient: n-octanol/water : log Pow: 0.317 (22.5 °C)
pH: 6.8 - 7.3

1,2-epoxybutane :

Partition coefficient: n-octanol/water : Pow: 0.68

Mobility in soil

No data available

Other adverse effects

No data available

Product:

Additional ecological information : No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Do not dispose of waste into sewer.
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.
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 |
|--|

SAFETY DATA SHEET

ZEP AVIATION POWER DEGREASER

Version 1.3

Revision Date 10/01/2023

Print Date 04/28/2025

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:

| | |
|-------------|--|
| DSL | This product contains one or more components that are listed on the Canadian NDSL. All other components 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

WHMIS - GHS Label Information:

SAFETY DATA SHEET

ZEP AVIATION POWER DEGREASER

Version 1.3

Revision Date 10/01/2023

Print Date 04/28/2025

Hazard pictograms



Signal word

: **Danger:**

Hazard statements

: Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. May cause drowsiness or dizziness. Suspected of causing cancer. May damage fertility or the unborn child. 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 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. 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 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 it before reuse.
Storage: Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F. Store in a well-ventilated place.
Disposal: Dispose of contents/container in accordance with local regulation.

| | |
|----------------|------------|
| Version: | 1.3 |
| Revision Date: | 10/01/2023 |
| Print Date: | 04/28/2025 |

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind. The information in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. Users should make their own investigations to determine the suitability and applicability of the information for their particular purposes. This SDS has been prepared by the Compliance Services organization supporting this manufacturer, supplier or distributor.