

# SAFETY DATA SHEET

## ZEP NEXT STEP 1 SPEED STRIPPER GOLD CONCENTRATE

Version 1.2

Revision Date 10/01/2023

Print Date 04/28/2025

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Material name : ZEP NEXT STEP 1 SPEED STRIPPER GOLD CONCENTRATE

Material number : G08043C

#### 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 | liquid                 |
| Colour     | purple                 |
| Odour      | slight, characteristic |

#### GHS Classification

Flammable liquids : Category 3  
Skin corrosion : Category 1  
Serious eye damage : Category 1  
Carcinogenicity : Category 2

#### GHS label elements

Hazard pictograms :



Flame



Health hazard



Corrosion

Signal word : Danger

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Hazard statements : H226 Flammable liquid and vapour.  
H314 Causes severe skin burns and eye damage.  
H351 Suspected of causing cancer.

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.  
P233 Keep container tightly closed.  
P240 Ground and bond container and receiving equipment.  
P241 Use explosion-proof electrical/ ventilating/ lighting equipment.  
P242 Use non-sparking tools.  
P243 Take action to prevent static discharges.  
P264 Wash skin thoroughly after handling.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
**Response:**  
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.  
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.  
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.  
P308 + P313 IF exposed or concerned: Get medical advice/ attention.  
P363 Wash contaminated clothing before reuse.  
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.  
**Storage:**  
P403 + P235 Store in a well-ventilated place. Keep cool.  
**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 [%] |
|---|----------|-------------------|
| 2-(2-butoxyethoxy)ethanol               | 112-34-5 | >= 10 - < 30      |
| 2-aminoethanol                          | 141-43-5 | >= 10 - < 30      |
| propan-2-ol                             | 67-63-0  | >= 1 - < 5        |
| tetrasodium ethylenediaminetetraacetate | 64-02-8  | >= 1 - < 5        |
| 2,2'-iminodiethanol                     | 111-42-2 | >= 0.1 - < 1      |

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### SECTION 4. FIRST AID MEASURES

|   |  |
|---|--|
| General advice  | : Move out of dangerous area.<br>Show this safety data sheet to the doctor in attendance.<br>Do not leave the victim unattended.   |
| If inhaled  | : If unconscious, place in recovery position and seek medical advice.<br>If symptoms persist, call a physician.  |
| In case of skin contact                                     | : Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.<br>If on skin, rinse well with water.<br>If on clothes, remove clothes.<br>Wash off immediately with plenty of water for at least 15 minutes.   |
| 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>Effects are dependent on exposure (dose, concentration, contact time).<br>Symptoms may include blistering, irritation, burns, and pain.<br>Chronic effects are delayed and symptoms may not be observed during an exposure.<br>Causes severe skin burns and eye damage.<br>Review section 2 of SDS to see all potential hazards.<br>Suspected of causing cancer. |
| Notes to physician  | : Treat symptomatically. Symptoms may be delayed.  |

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### SECTION 5. FIREFIGHTING MEASURES

|                                |   |
|--------------------------------|---|
| Suitable extinguishing media   | : Alcohol-resistant foam<br>Carbon dioxide (CO2)<br>Dry chemical<br>Water spray jet |
| Unsuitable extinguishing media | : High volume water jet   |
| Specific hazards during        | : Do not allow run-off from fire fighting to enter drains or water                  |

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|   |   |
|---|---|
| firefighting                                  | courses.  |
| Hazardous combustion products                 | : Carbon dioxide (CO <sub>2</sub> )<br>Carbon monoxide<br>Smoke<br>Nitrogen oxides (NO <sub>x</sub> )   |
| 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.  |

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### SECTION 6. ACCIDENTAL RELEASE MEASURES

|   |   |
|---|---|
| Personal precautions, protective equipment and emergency procedures | : Use personal protective equipment.<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               | : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). |

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### 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. |
| Conditions for safe storage | : No smoking.<br>Keep container tightly closed in a dry and well-ventilated  |

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place.

Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Observe label precautions.

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

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

| Components                | CAS-No.  | Value type<br>(Form of exposure)      | Control parameters /<br>Permissible concentration | Basis     |
|---------------------------|----------|---------------------------------------|---|-----------|
| 2-(2-butoxyethoxy)ethanol | 112-34-5 | TWA<br>(Inhalable fraction and vapor) | 10 ppm  | ACGIH     |
| 2-aminoethanol            | 141-43-5 | STEL                                  | 6 ppm<br>15 mg/m3                                 | CA AB OEL |
|                           |          | TWA                                   | 3 ppm<br>7.5 mg/m3                                | CA AB OEL |
|                           |          | TWA                                   | 3 ppm   | CA BC OEL |
|                           |          | STEL                                  | 6 ppm   | CA BC OEL |
|                           |          | TWAEV                                 | 3 ppm<br>7.5 mg/m3                                | CA QC OEL |
|                           |          | STEV                                  | 6 ppm<br>15 mg/m3                                 | CA QC OEL |
|                           |          | TWA                                   | 3 ppm   | ACGIH     |
|                           |          | STEL                                  | 6 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     |
| 2,2'-iminodiethanol       | 111-42-2 | TWA                                   | 2 mg/m3   | CA AB OEL |
|                           |          | TWA                                   | 2 mg/m3   | CA BC OEL |
|                           |          | TWAEV                                 | 3 ppm<br>13 mg/m3                                 | CA QC OEL |
|                           |          | TWA<br>(Inhalable fraction and vapor) | 1 mg/m3   | ACGIH     |

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### Biological occupational exposure limits

| Components  | CAS-No. | Control parameters | Biological specimen | Sampling time                   | Permissible concentration | Basis     |
|-------------|---------|--------------------|---------------------|---------------------------------|---------------------------|-----------|
| 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**

: Eye wash bottle with pure water  
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 workplace.

**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** : liquid

**Colour** : purple

**Odour** : slight, characteristic

**Odour Threshold** : No data available

**pH** : 13.0 - 14.0

**Melting point/freezing point** : No data available

**Boiling point** : No data available

**Flash point** : 58 °C  
Method: closed cup

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|  |   |
|--|---|
| Evaporation rate                       | : No data available                           |
| Upper explosion limit                  | : No data available                           |
| Lower explosion limit                  | : No data available                           |
| Vapour pressure                        | : No data available                           |
| Relative vapour density                | : No data available                           |
| Density                                | : 0.985 g/cm3                                 |
| Solubility(ies)                        |   |
| Water solubility                       | : soluble in cold water, soluble in hot water |
| Partition coefficient: n-octanol/water | : No data available                           |
| Auto-ignition temperature              | : not determined                              |
| Thermal decomposition                  | : No data available                           |
| Viscosity                              |   |
| Viscosity, kinematic                   | : No data available                           |

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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.<br>Vapours may form explosive mixture with air. |
| Conditions to avoid                | : Heat, flames and sparks.  |
| Incompatible materials             | : Oxidizing agents<br>Acids   |
| Hazardous decomposition products   | : No decomposition if stored and applied as directed.   |

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### SECTION 11. TOXICOLOGICAL INFORMATION

#### Potential Health Effects

|                              |  |
|------------------------------|--|
| Aggravated Medical Condition | : None known.  |
| Symptoms of Overexposure     | : Effects are immediate and delayed.<br>Effects are dependent on exposure (dose, concentration, contact time).<br>Symptoms may include blistering, irritation, burns, and pain.<br>Chronic effects are delayed and symptoms may not be |

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observed during an exposure.  
Causes severe skin burns and eye damage.  
Review section 2 of SDS to see all potential hazards.  
Suspected of causing cancer.  
Treat symptomatically. Symptoms may be delayed.

### Carcinogenicity:

#### IARC

Group 2B: Possibly carcinogenic to humans

2,2'-iminodiethanol

111-42-2

#### ACGIH

Confirmed animal carcinogen with unknown relevance to humans

2,2'-iminodiethanol

111-42-2

### Acute toxicity

#### Product:

Acute oral toxicity : Acute toxicity estimate : 4,986 mg/kg  
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate : > 40 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate : 4,423 mg/kg  
Method: Calculation method

#### Components:

##### 2-aminoethanol:

Acute oral toxicity : LD50 Oral Mouse: 700 mg/kg

LD50 Oral Rat: 1,515 mg/kg

Acute inhalation toxicity : LC50 Mouse: > 1.21 mg/l

##### propan-2-ol:

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

### Skin corrosion/irritation

#### Product:

Remarks: Extremely corrosive and destructive to tissue.

### Serious eye damage/eye irritation

#### Product:



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Remarks: May cause irreversible eye damage.

### 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

#### Components:

**tetrasodium ethylenediaminetetraacetate:**

Exposure routes: Inhalation

Assessment: May cause damage to organs through prolonged or repeated exposure.

### Aspiration toxicity

No data available

### Further information

#### Product:

Remarks: Solvents may degrease the skin.

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## 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:

**2-(2-butoxyethoxy)ethanol :**

Partition coefficient: n-octanol/water : Pow: 1

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### 2-aminoethanol :

Partition coefficient: n-octanol/water : log Pow: -1.31

### propan-2-ol :

Partition coefficient: n-octanol/water : log Pow: 0.05

### 2,2'-iminodiethanol :

Partition coefficient: n-octanol/water : Pow: 1.43

### Mobility in soil

No data available

### Other adverse effects

No data available

### Product:

Additional ecological information : No data available

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## 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.

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## SECTION 14. TRANSPORT INFORMATION

|  |
|--|
| Transportation Regulation (TDG) / Règlement Pour Le Transport (TMD): (Canada):<br>UN1760, CORROSIVE LIQUIDS, N.O.S., (MONOETHANOLAMINE), 8, II |
|--|

|   |
|---|
| Transportation Regulation / Règlement Pour Le Transport: IMDG (Vessel):<br>UN1760, CORROSIVE LIQUIDS, N.O.S., (MONOETHANOLAMINE), 8, II |
|---|

|   |
|---|
| Transportation Regulation / Règlement Pour Le Transport: IATA (Cargo Air):<br>UN1760, Corrosive liquid, n.o.s., (MONOETHANOLAMINE), 8, II |
|---|

|  |
|--|
| Transportation Regulation / Règlement Pour Le Transport: IATA (Passenger Air):<br>UN1760, Corrosive liquids, n.o.s., (MONOETHANOLAMINE), 8, II |
|--|

|  |
|--|
| Transportation Regulation / Règlement Pour Le Transport: 49 CFR (USA):<br>UN1760, CORROSIVE LIQUIDS, N.O.S., (MONOETHANOLAMINE), 8, II |
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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



Flame

Health hazard

Corrosion

Signal word

: **Danger:**

Hazard statements

: Flammable liquid and vapour. Causes severe skin burns and eye damage. Suspected of causing cancer.

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. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof electrical/ ventilating/ lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Wash skin thoroughly after handling. Wear protective gloves/ protective clothing/ eye protection/ face protection.  
**Response:** IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. IF exposed or concerned: Get medical advice/ attention. Wash contaminated clothing before reuse. In case of fire: Use dry

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sand, dry chemical or alcohol-resistant foam to extinguish.

**Storage:** Store in a well-ventilated place. Keep cool.

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

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|                |            |
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