

# SAFETY DATA SHEET

## ZEP PROVISIONS ENZYMATIC POWDERED PRESOAK

Version 3.1

Revision Date 10/01/2023

Print Date 04/25/2024

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Material name : ZEP PROVISIONS ENZYMATIC POWDERED PRESOAK

Material number : 000000000000203135

#### 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 - 877-428-9937

For a Medical Emergency : 877-541-2016 Toll Free - All Calls Recorded

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

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

### SECTION 2. HAZARDS IDENTIFICATION

#### Emergency Overview

Appearance	powder
Colour	white
Odour	odourless

#### GHS Classification

Eye irritation : Category 2A

Respiratory sensitisation : Category 1

Carcinogenicity : Category 2

#### GHS label elements

Hazard pictograms :



Health hazard

Signal word : Danger

Hazard statements : H319 Causes serious eye irritation.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
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.

# SAFETY DATA SHEET

## ZEP PROVISIONS ENZYMATIC POWDERED PRESOAK

Version 3.1

Revision Date 10/01/2023

Print Date 04/25/2024

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash skin thoroughly after handling.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P285 In case of inadequate ventilation wear respiratory protection.

### Response:

P304 + P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

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.

P337 + P313 If eye irritation persists: Get medical advice/ attention.

### 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 [%]
sodium carbonate	497-19-8	>= 70 - < 90
sodium hydrogencarbonate	144-55-8	>= 20 - < 30
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	68439-57-6	>= 5 - < 10
Alcohols, C12-16, ethoxylated	68551-12-2	>= 1 - < 5
titanium dioxide	13463-67-7	>= 0.1 - < 1
Subtilisin	9014-01-1	>= 0.1 - < 1

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 : Call a physician or poison control centre immediately.  
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.

## SAFETY DATA SHEET

### ZEP PROVISIONS ENZYMATIC POWDERED PRESOAK

Version 3.1

Revision Date 10/01/2023

Print Date 04/25/2024

In case of eye contact	: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
If swallowed	: Clean mouth with water and drink afterwards plenty of water. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Keep respiratory tract clear. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital.
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 difficulty breathing, coughing, wheezing, throat irritation, and tightness/closure of airway.  Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties 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

Suitable extinguishing media	: Dry chemical Alcohol-resistant foam Carbon dioxide (CO <sub>2</sub> )
Unsuitable extinguishing media	: High volume water jet
Hazardous combustion products	: Carbon dioxide (CO <sub>2</sub> ) Carbon monoxide Sulphur oxides Smoke
Specific extinguishing methods	: Do not allow run-off from fire fighting to enter drains or water courses.
Further information	: Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Special protective equipment for firefighters	: Wear self-contained breathing apparatus for firefighting if necessary.

---

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions,	: Use personal protective equipment.
-----------------------	--------------------------------------

# SAFETY DATA SHEET

## ZEP PROVISIONS ENZYMATIC POWDERED PRESOAK

Version 3.1

Revision Date 10/01/2023

Print Date 04/25/2024

protective equipment and emergency procedures	Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.
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	: Keep in suitable, closed containers for disposal.

### SECTION 7. HANDLING AND STORAGE

Advice on safe handling	: Avoid formation of respirable particles. Do not breathe vapours/dust. 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. Provide sufficient air exchange and/or exhaust in work rooms. Dispose of rinse water in accordance with local and national regulations. Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
Conditions for safe storage	: 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	: Do not store near acids. Oxidizing agents

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
titanium dioxide	13463-67-7	TWA	10 mg/m3	ACGIH
		TWA (total dust)	15 mg/m3	OSHA Z-1
		TWA (Total dust)	10 mg/m3	OSHA P0
		PEL (Total dust)	10 mg/m3	CAL PEL
		PEL	5 mg/m3	CAL PEL

# SAFETY DATA SHEET

## ZEP PROVISIONS ENZYMATIC POWDERED PRESOAK

Version 3.1

Revision Date 10/01/2023

Print Date 04/25/2024

		(respirable dust fraction)		
Subtilisin	9014-01-1	C	0.00006 mg/m3	OSHA P0
		STEL	0.00006 mg/m3	CAL PEL
		ST	0.00006 mg/m3	NIOSH REL

**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

Remarks

: Protective gloves

: 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

: Dust impervious protective suit

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

: powder

Colour

: white

Odour

: odourless

Odour Threshold

: No data available

pH

: 9.5 - 10.5, 2 %(as aqueous solution)

Melting point/freezing point

: Not applicable

Boiling point

: Not applicable

Flash point

:

Not applicable

Evaporation rate

: Not applicable

Upper explosion limit

: Not applicable

Lower explosion limit

: Not applicable

Vapour pressure

: Not applicable

## SAFETY DATA SHEET

### ZEP PROVISIONS ENZYMATIC POWDERED PRESOAK

Version 3.1

Revision Date 10/01/2023

Print Date 04/25/2024

Relative vapour density	: No data available
Density	: Not applicable
Solubility(ies)	
Water solubility	: soluble
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: not determined
Thermal decomposition	: No data available
Viscosity	
Viscosity, kinematic	: No data available

---

#### SECTION 10. STABILITY AND REACTIVITY

Reactivity	: Stable
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: Dust may form explosive mixture in air. No decomposition if stored and applied as directed.
Conditions to avoid	: No data available
Incompatible materials	: Acids Oxidizing agents
Hazardous decomposition products	: Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke). Sulphur 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 difficulty breathing, coughing, wheezing, throat irritation, and tightness/closure of airway.  Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Review section 2 of SDS to see all potential hazards. Treat symptomatically. Symptoms may be delayed.

## SAFETY DATA SHEET

### ZEP PROVISIONS ENZYMATIC POWDERED PRESOAK

Version 3.1

Revision Date 10/01/2023

Print Date 04/25/2024

#### Carcinogenicity:

<b>IARC</b>	Group 2B: Possibly carcinogenic to humans titanium dioxide	13463-67-7
<b>ACGIH</b>	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.	
<b>OSHA</b>	No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.	
<b>NTP</b>	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.	

#### Acute toxicity

##### Product:

Acute oral toxicity : Acute toxicity estimate : 4,483 mg/kg  
Method: Calculation method

##### Components:

##### **sodium carbonate:**

Acute oral toxicity : LD50 Oral Rat: 4,090 mg/kg

Acute inhalation toxicity : LC50 Rat: 5,750 mg/l  
Exposure time: 2 h

##### **sodium hydrogencarbonate:**

Acute oral toxicity : LD50 Oral Rat: 4,220 mg/kg

#### Skin corrosion/irritation

##### Product:

Remarks: May cause skin irritation and/or dermatitis.

#### Serious eye damage/eye irritation

##### Product:

Remarks: Severe eye irritation

#### Respiratory or skin sensitisation

##### Product:

Remarks: May cause sensitisation of susceptible persons.

##### Components:

##### **Subtilisin:**

Classification: May cause sensitisation by inhalation.

#### Germ cell mutagenicity

# SAFETY DATA SHEET

## ZEP PROVISIONS ENZYMATIC POWDERED PRESOAK

Version 3.1

Revision Date 10/01/2023

Print Date 04/25/2024

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: 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 : Remarks: No data available

### 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).



# SAFETY DATA SHEET

## ZEP PROVISIONS ENZYMATIC POWDERED PRESOAK

Version 3.1

Revision Date 10/01/2023

Print Date 04/25/2024

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.

### SECTION 14. TRANSPORT INFORMATION

Transportation Regulation: 49 CFR (USA):  
NOT REGULATED AS DANGEROUS GOODS OR HAZARDOUS MATERIAL

Transportation Regulation: IMDG (Vessel):  
NOT REGULATED AS DANGEROUS GOODS OR HAZARDOUS MATERIAL

Transportation Regulation: IATA (Cargo Air):  
NOT REGULATED AS DANGEROUS GOODS OR HAZARDOUS MATERIAL

Transportation Regulation: IATA (Passenger Air):  
NOT REGULATED AS DANGEROUS GOODS OR HAZARDOUS MATERIAL

Transportation Regulation: TDG (Canada):  
NOT REGULATED AS DANGEROUS GOODS OR HAZARDOUS MATERIAL

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.

## SAFETY DATA SHEET

### ZEP PROVISIONS ENZYMATIC POWDERED PRESOAK

Version 3.1

Revision Date 10/01/2023

Print Date 04/25/2024

No substances are subject to TSCA 12(b) export notification requirements.

#### **EPCRA - Emergency Planning and Community Right-to-Know Act**

##### **CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

##### **SARA 304 Extremely Hazardous Substances Reportable Quantity**

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

**SARA 311/312 Hazards** : Serious eye damage or eye irritation  
Respiratory or skin sensitisation  
Carcinogenicity

**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**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

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

**TSCA** On TSCA Inventory  
**DSL** This product contains one or several components that are not on the Canadian DSL nor NDSL.

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**

# SAFETY DATA SHEET

## ZEP PROVISIONS ENZYMATIC POWDERED PRESOAK

Version 3.1

Revision Date 10/01/2023

Print Date 04/25/2024

### Further information

#### NFPA:

HEALTH	3
FLAMMABILITY	0
INSTABILITY	0
SPECIAL HAZARD.	

0 = not significant, 1 = Slight,  
2 = Moderate, 3 = High  
4 = Extreme

#### HMIS III:

HEALTH	3*
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,  
2 = Moderate, 3 = High  
4 = Extreme, \* = Chronic

### OSHA - GHS Label Information:

Hazard pictograms



Health hazard

Signal word

: **Danger:**

Hazard statements

: Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Suspected of causing cancer.

Precautionary statements

: **Prevention:** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. Wash skin thoroughly after handling. Wear protective gloves/ protective clothing/ eye protection/ face protection. In case of inadequate ventilation wear respiratory protection.  
**Response:** IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. 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 eye irritation persists: Get medical advice/ attention.

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

# **SAFETY DATA SHEET**

## **ZEP PROVISIONS ENZYMATIC POWDERED PRESOAK**

Version 3.1

Revision Date 10/01/2023

Print Date 04/25/2024

---

Version:	3.1
Revision Date:	10/01/2023
Print Date:	04/25/2024

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.