

# SAFETY DATA SHEET

## ZEP OVATION

Version 5.1

Revision Date 10/01/2023

Print Date 04/17/2024

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Material name : ZEP OVATION

Material number : 000000000000190124

#### 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	liquid
Colour	white, milky
Odour	slight, mild, ammoniacal

#### GHS Classification

Not a hazardous substance or mixture.

#### GHS label elements

Not a hazardous substance or mixture.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### Hazardous components

Chemical name	CAS-No.	Concentration [%]
2-(2-ethoxyethoxy)ethanol	111-90-0	$\geq 5$ - $< 10$
tris(2-butoxyethyl) phosphate	78-51-3	$\geq 3$ - $< 5$
tetraamminezinc(2+) carbonate	38714-47-5	$\geq 1$ - $< 3$

The exact percentages of disclosed substances are withheld as trade secrets.

# SAFETY DATA SHEET

## ZEP OVATION

Version 5.1

Revision Date 10/01/2023

Print Date 04/17/2024

### SECTION 4. FIRST AID MEASURES

- |                                                             |                                                                                                                                                                                                                                                               |
|-------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General advice                                              | : Do not leave the victim unattended.<br>Move out of dangerous area.<br>Consult a physician.<br>Show this safety data sheet to the doctor in attendance.                                                                                                      |
| If inhaled                                                  | : If unconscious, place in recovery position and seek medical advice.<br>If symptoms persist, call a physician.                                                                                                                                               |
| In case of skin contact                                     | : If skin irritation persists, call a physician.<br>In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.<br>Wash contaminated clothing before re-use.              |
| In case of eye contact                                      | : In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.<br>Protect unharmed eye.<br>Keep eye wide open while rinsing.<br>If eye irritation persists, consult a specialist. |
| If swallowed                                                | : Keep respiratory tract clear.<br>Do not give milk or alcoholic beverages.<br>Never give anything by mouth to an unconscious person.<br>If symptoms persist, call a physician.                                                                               |
| Most important symptoms and effects, both acute and delayed | : Effects may be delayed, symptoms may include minor eye or skin irritation.<br>Overexposure may cause mild eye or skin irritation.                                                                                                                           |
| Notes to physician                                          | : Treat symptomatically. Symptoms may be delayed.                                                                                                                                                                                                             |

### SECTION 5. FIREFIGHTING MEASURES

- |                                      |                                                                                                           |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------|
| Suitable extinguishing media         | : Dry chemical<br>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 products        | : Carbon dioxide (CO <sub>2</sub> )<br>Carbon monoxide<br>Smoke                                           |
| Specific extinguishing methods       | : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |

# SAFETY DATA SHEET

## ZEP OVATION

Version 5.1

Revision Date 10/01/2023

Print Date 04/17/2024

Further information : Standard procedure for chemical fires.

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.

Environmental precautions : Prevent further leakage or spillage if safe to do so.  
Prevent product from entering drains.  
If the product contaminates rivers and lakes or drains, inform respective authorities.

Methods and materials for containment and cleaning up : Wipe up with absorbent material (e.g. cloth, fleece).  
Keep in suitable, closed containers for disposal.

### SECTION 7. HANDLING AND STORAGE

Advice on safe handling : Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Dispose of rinse water in accordance with local and national regulations.

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 : Oxidizing agents  
Do not freeze.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
2-(2-ethoxyethoxy)ethanol	111-90-0	TWA	25 ppm	US WEEL

**Engineering measures** : effective ventilation in all processing areas

#### Personal protective equipment

Respiratory protection : Use respiratory protection unless adequate local exhaust

# SAFETY DATA SHEET

## ZEP OVATION

Version 5.1

Revision Date 10/01/2023

Print Date 04/17/2024

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

: Safety glasses

### 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

: liquid

### Colour

: white, milky

### Odour

: slight, mild, ammoniacal

### Odour Threshold

: No data available

### pH

: 8 - 9

### Melting point/freezing point

: No data available

### Boiling point

: 38.89 °C

### Flash point

:  
Not applicable

### Evaporation rate

: 1

### Upper explosion limit

: Not applicable

### Lower explosion limit

: Not applicable

### Vapour pressure

: not determined

### Relative vapour density

: No data available

### Density

: 1.02 g/cm<sup>3</sup>

### Solubility(ies)

#### Water solubility

: soluble in cold water, soluble in hot water

#### Solubility in other solvents

: not determined

#### Partition coefficient: n-octanol/water

: No data available

#### Auto-ignition temperature

: not determined

# SAFETY DATA SHEET

## ZEP OVATION

Version 5.1

Revision Date 10/01/2023

Print Date 04/17/2024

Thermal decomposition : No data available

Viscosity

Viscosity, kinematic : 7.8 mm<sup>2</sup>/s (20 °C)

---

### 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.

Conditions to avoid : No data available

Incompatible materials : Oxidizing agents

Hazardous decomposition products : Carbon oxides

---

### SECTION 11. TOXICOLOGICAL INFORMATION

#### Potential Health Effects

Aggravated Medical Condition : None known.

Symptoms of Overexposure : Effects may be delayed, symptoms may include minor eye or skin irritation.  
Overexposure may cause mild eye or skin irritation.  
Treat symptomatically. Symptoms may be delayed.

#### 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 on OSHA's list of regulated carcinogens.

**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.

#### Acute toxicity

##### Product:

# SAFETY DATA SHEET

## ZEP OVATION

Version 5.1

Revision Date 10/01/2023

Print Date 04/17/2024

Acute inhalation toxicity : Acute toxicity estimate : > 200 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: Calculation method

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

### Skin corrosion/irritation

#### Product:

Remarks: May cause skin irritation in susceptible persons.

### 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: No data available

---

## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

# SAFETY DATA SHEET

## ZEP OVATION

Version 5.1

Revision Date 10/01/2023

Print Date 04/17/2024

No data available

### Persistence and degradability

No data available

### Bioaccumulative potential

#### Product:

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

#### Components:

##### **2-(2-ethoxyethoxy)ethanol :**

Partition coefficient: n-octanol/water : Pow: 0.54

### 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 : 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):

# SAFETY DATA SHEET

## ZEP OVATION

Version 5.1

Revision Date 10/01/2023

Print Date 04/17/2024

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 TSCA 12(b) export notification requirements.

No substances are subject to a Significant New Use Rule.

The following substance(s) is/are subject to a Significant New Use Rule:

pentadecafluorooctanoic acid 335-67-1

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

#### CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
ammonia, aqueous solution	1336-21-6	1000	*

\*: 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** : No SARA Hazards

**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:

# SAFETY DATA SHEET

## ZEP OVATION

Version 5.1

Revision Date 10/01/2023

Print Date 04/17/2024

2-(2-ethoxyethoxy)ethanol	111-90-0	5.6244 %
tetraamminezinc(2+)	38714-47-5	1.0377 %
carbonate		

### California Prop. 65



WARNING: This product can expose you to chemicals including 2-ethoxyethanol, pentadecafluorooctanoic acid, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

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

<b>DSL</b>	This product contains one or more components that are listed on the Canadian NDSL. All other components are on the Canadian DSL.
<b>TSCA</b>	Not 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

# SAFETY DATA SHEET

## ZEP OVATION

Version 5.1

Revision Date 10/01/2023

Print Date 04/17/2024

### Further information

#### NFPA:

<b>HEALTH</b>	<b>1</b>
<b>FLAMMABILITY</b>	<b>1</b>
<b>INSTABILITY</b>	<b>0</b>
<b>SPECIAL HAZARD.</b>	

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

#### HMIS III:

<b>HEALTH</b>	<b>1</b>
<b>FLAMMABILITY</b>	<b>0</b>
<b>PHYSICAL HAZARD</b>	<b>0</b>

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

### OSHA - GHS Label Information:

Not a hazardous substance or mixture.

Version:	5.1
Revision Date:	10/01/2023
Print Date:	04/17/2024

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.

# **SAFETY DATA SHEET**

## **ZEP OVATION**

Version 5.1

Revision Date 10/01/2023

Print Date 04/17/2024