# **ZEP ANTI-RUST**

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#### **SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Material name : ZEP ANTI-RUST

Material number : 0000000000104985

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 : CHEMTREC: 800-424-9300 - All Calls Recorded.

Emergency 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	blue, clear
Odour	odourless

# **GHS Classification**

Eye irritation : Category 2A Carcinogenicity : Category 2

**GHS** label elements

Hazard pictograms



Exclamation

Signal word : Warning

Hazard statements : H319 Causes serious eye irritation.

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.

P264 Wash skin thoroughly after handling.

P280 Wear protective gloves/ protective clothing/ eye

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protection/ face protection.

Response:

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 [%]
2,2',2"-nitrilotriethanol	102-71-6	>= 10 - < 20
Poly(oxy-1,2-ethanediyl), .alphaphenylomega hydroxy-, phosphate. TEA salt	Not Assigned	>= 10 - < 20
sodium nitrite	7632-00-0	>= 3 - < 5
2,2'-iminodiethanol	111-42-2	>= 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.

Consult a physician.

Show this safety data sheet to the doctor in attendance.

Do not leave the victim unattended.

If inhaled : If unconscious, place in recovery position and seek medical

advice.

If symptoms persist, call a physician.

In case of skin contact : In case of contact, immediately flush skin with plenty of water.

Take off contaminated clothing and shoes immediately. Get medical attention if irritation develops and persists.

Wash contaminated clothing before re-use.

In case of eye contact : Continue rinsing eyes during transport to hospital.

Remove contact lenses. Protect unharmed eye.

Keep eye wide open while rinsing.

Rinse immediately with plenty of water for at least 15 minutes.

If eye irritation persists, consult a specialist.

If swallowed : Clean mouth with water and drink afterwards plenty of water.

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Keep respiratory tract clear. Do NOT induce vomiting.

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. Chronic effects are delayed and symptoms may not be

observed during an exposure.

Effects are dependent on exposure (dose, concentration,

contact time).

Causes serious eye irritation. Suspected of causing cancer.

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 : Use water spray, alcohol-resistant foam, dry chemical or

carbon dioxide.

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 (CO2) Carbon monoxide

Nitrogen oxides (NOx)

Smoke

Phosphorus compounds

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.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

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 Environmental precautions : Use personal protective equipment.

: Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

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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).

Keep in suitable, closed containers for disposal.

## **SECTION 7. HANDLING AND STORAGE**

Advice on safe handling : Do not breathe vapours or spray mist.

Avoid contact with skin and eyes. For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the

application area.

To avoid spills during handling keep bottle on a metal tray. 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.

Containers which are opened must be carefully resealed and

kept upright to prevent leakage.

Electrical installations / working materials must comply with

the technological safety standards.

Materials to avoid : Oxidizing agents

Do not store near acids.

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',2"-nitrilotriethanol	102-71-6	TWA	5 mg/m3	ACGIH
		PEL	5 mg/m3	CAL PEL
2,2'-iminodiethanol	111-42-2	TWA (Inhalable fraction and vapor)	1 mg/m3	ACGIH
		TWA	3 ppm 15 mg/m3	NIOSH REL
		TWA	3 ppm 15 mg/m3	OSHA P0
		PEL	0.46 ppm 2 mg/m3	CAL PEL

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

## Personal protective equipment

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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

Remarks The suitability for a specific workplace should be discussed

with the producers of the protective gloves.

: Access to clean water to rinse eyes must be available, options Eye protection

include: eye wash stations or showers, or eye wash bottles

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 work place.

: When using do not eat or drink. Hygiene measures

When using do not smoke.

Wash hands before breaks and at the end of workday.

#### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance** : liquid

Colour : blue, clear Odour : odourless

Odour Threshold : No data available

: 8.5 - 9.5 Hq

Melting point/freezing point : No data available

100 °C Boiling point

Flash point

does not flash

Evaporation rate : 1

Upper explosion limit : No data available Lower explosion limit : No data available Vapour pressure not determined Relative vapour density No data available

Density 1.085 g/cm3

Solubility(ies)

Water solubility soluble

Partition coefficient: n-

octanol/water

: No data available

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Auto-ignition temperature : not determined

Thermal decomposition : No data available

Viscosity

Viscosity, kinematic : 6.7 mm2/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 : Extremes of temperature and direct sunlight.

Incompatible materials : Oxidizing agents

Acids

Hazardous decomposition

products

: Nitrogen oxides (NOx) Phosphorus compounds

Carbon oxides

## **SECTION 11. TOXICOLOGICAL INFORMATION**

## **Potential Health Effects**

Aggravated Medical

Condition

Symptoms of Overexposure

: None known.

: Effects are immediate and delayed.

Symptoms may include irritation, redness, pain, and rash. Chronic effects are delayed and symptoms may not be

observed during an exposure.

Effects are dependent on exposure (dose, concentration,

contact time).

Causes serious eye irritation. Suspected of causing cancer.

Review section 2 of SDS to see all potential hazards. Treat symptomatically. Symptoms may be delayed.

Carcinogenicity:

IARC Group 2A: Probably carcinogenic to humans

sodium nitrite

Group 2B: Possibly carcinogenic to humans

7632-00-0

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2,2'-iminodiethanol 111-42-2

ACGIH Confirmed animal carcinogen with unknown relevance to

humans

2,2'-iminodiethanol 111-42-2

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:**

Acute oral toxicity : Acute toxicity estimate : 2,329 mg/kg

Method: Calculation method

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

Method: Calculation method

## **Components:**

2,2',2"-nitrilotriethanol:

Acute oral toxicity : LD50 Rat: 6,400 mg/kg

Acute dermal toxicity : LD50 Rabbit: > 22,500 mg/kg

#### Skin corrosion/irritation

#### **Product:**

Remarks: May cause skin irritation in susceptible persons.

## Serious eye damage/eye irritation

## **Product:**

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

No data available

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## **Aspiration toxicity**

No data available

#### **Further information**

#### **Product:**

Remarks: No data available

#### **SECTION 12. ECOLOGICAL INFORMATION**

## **Ecotoxicity**

**Components:** 

2,2',2"-nitrilotriethanol:

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): > 450 - <

1,000 mg/l

Exposure time: 96 h

Method: Third Party Data - Actual or Inferred

Toxicity to daphnia and : EC50 (Ceriodaphnia (water flea)): > 565 - < 658 mg/l

other aquatic invertebrates Exposure time: 48 h

Method: Third Party Data - Actual or Inferred

# Persistence and degradability

No data available

# **Bioaccumulative potential**

**Product:** 

Partition coefficient: n- : Remarks: No data available

octanol/water **Components**:

2,2',2"-nitrilotriethanol:

Partition coefficient: n- : log Pow: -1

octanol/water

2,2'-iminodiethanol:

Partition coefficient: n- : Pow: 1.43

octanol/water

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

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> 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

: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Toxic to

aquatic life.

The GHS H401 statement "Toxic to aquatic life" noted

above is an Acute Aquatic Toxicity Category 2

classification. Although the product has the potential to harm the environment, it is not classified as a marine pollutant or regulated under transportation regulations.

#### **SECTION 13. DISPOSAL CONSIDERATIONS**

## Disposal methods

Waste from residues : The product should not be allowed to enter drains, water

courses or the soil.

Do not contaminate ponds, waterways or ditches with

chemical or used container.

Dispose of in accordance with local regulations.

: Empty remaining contents. Contaminated packaging

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

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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.

The following substance(s) is/are subject to TSCA 12(b) export

notification requirements:

sodium nitrite 7632-00-0

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

#### **CERCLA Reportable Quantity**

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
sodium nitrite	7632-00-0	100	2521

## 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

Carcinogenicity

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:

sodium nitrite 7632-00-0 3.9663 %

#### California Prop. 65



WARNING: This product can expose you to chemicals including 2,2'-iminodiethanol, which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

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

**DSL** This product contains one or several components that are not on the

Canadian DSL nor NDSL.

TSCA On TSCA Inventory

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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**

## **Further information**

## NFPA:

HEALTH	2
FLAMMABILITY	1
INSTABILITY	0
SPECIAL HAZARD.	

<sup>0 =</sup> not significant, 1 =Slight,

# HMIS III:

HEALTH	2*
FLAMMABILITY	1
PHYSICAL HAZARD	0

0 = not significant, 1 =Slight,

2 = Moderate, 3 = High 4 = Extreme, \* = Chronic

## **OSHA - GHS Label Information:**

Hazard pictograms



Exclamation

Signal word Hazard statements

Causes serious eye irritation. Suspected of causing cancer.

<sup>2 =</sup> Moderate, 3 = High

<sup>4 =</sup> Extreme

# SAFETY DATA SHEET ZEP ANTI-RUST

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Precautionary statements

**Prevention:** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wash skin thoroughly after handling. Wear protective gloves/ protective clothing/ eye protection/ face protection. **Response:** 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.

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