# ZEP CLEAN'EMS SPIRIT II DISINFECTANT TOWELS\_80 CT

Version 3.0 Revision Date 01/13/2025 Print Date 04/27/2025

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

Material name : ZEP CLEAN'EMS SPIRIT II DISINFECTANT TOWELS\_80

CT

Material number : 00000000000650880

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	colourless	
Odour	characteristic	

#### **GHS Classification**

Eye irritation
Specific target organ toxicity -

repeated exposure

(Inhalation)

: Category 2A: Category 2

#### **GHS** label elements

Hazard pictograms

Exclamation mark

Signal word : Warning

Hazard statements : H319 Causes serious eye irritation.

Precautionary statements : **Prevention:** 

P264 Wash skin thoroughly after handling. P280 Wear eye protection/ face protection.

Response:

# ZEP CLEAN'EMS SPIRIT II DISINFECTANT TOWELS\_80 CT

Version 3.0 Revision Date 01/13/2025 Print Date 04/27/2025

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing.

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

attention.

#### **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

#### **Hazardous components**

Chemical name	CAS-No.	Concentration [%]
2-(2-butoxyethoxy)ethanol	112-34-5	>= 5 - < 10
tetrasodium ethylenediaminetetraacetate	64-02-8	>= 1 - < 5

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 : If unconscious, place in recovery position and seek medical

advice.

If symptoms persist, call a physician.

In case of skin contact : Wash off immediately with plenty of water for at least 15

minutes.

If on skin, rinse well with water. If on clothes, remove clothes.

In case of eye contact : Small amounts splashed into eyes can cause irreversible

tissue damage and blindness.

If in eyes, rinse with water for 15 minutes.

Continue rinsing eyes during transport to hospital.

Remove contact lenses. Protect unharmed eye.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.

Do NOT induce vomiting.

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.

Causes serious eye irritation.

Review section 2 of SDS to see all potential hazards.

# ZEP CLEAN'EMS SPIRIT II DISINFECTANT TOWELS 80 CT

Version 3.0 Revision Date 01/13/2025 Print Date 04/27/2025

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

Hazardous combustion

products

: Carbon dioxide (CO2) Carbon monoxide

Smoke

Nitrogen oxides (NOx)

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.

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

: 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 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

# ZEP CLEAN'EMS SPIRIT II DISINFECTANT TOWELS\_80 CT

Version 3.0 Revision Date 01/13/2025 Print Date 04/27/2025

place.

Electrical installations / working materials must comply with

the technological safety standards.

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 (Form of exposure)	Control parameters / Permissible concentration	Basis
2-(2-butoxyethoxy)ethanol	112-34-5	TWA (Inhalable fraction and vapor)	10 ppm	ACGIH

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

Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally

required.

Follow personal protective equipment guidance noted on the product label when using this product, especially if cleaning

areas soiled with blood or body fluids.

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

Access to clean water to rinse eyes must be available, options include: eye wash stations or showers, or eye wash bottles

with pure water.

Skin and body protection : For general disinfecting, no special protection is required.

Follow personal protective equipment guidance noted on the product label when using this product, especially if cleaning

areas soiled with blood or body fluids.

Choose body protection in relation to its type, to the

concentration and amount of dangerous substances, and to

the specific 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.

# ZEP CLEAN'EMS SPIRIT II DISINFECTANT TOWELS\_80 CT

Version 3.0 Revision Date 01/13/2025 Print Date 04/27/2025

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

Appearance : liquid

Colour : colourless
Odour : characteristic
Odour Threshold : No data available
pH : 11.5 - 12.5

Melting point/freezing point : No data available

Boiling point :  $> 100 \,^{\circ}\text{C}$ Flash point :  $> 93.3 \,^{\circ}\text{C}$ 

Method: closed cup

Upper explosion limit : not determined

Lower explosion limit : not determined

Vapour pressure : No data available

Density : 1 g/cm3

Solubility(ies)

Water solubility : 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 : 3.8 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 : No data available

Incompatible materials : Oxidizing agents

# ZEP CLEAN'EMS SPIRIT II DISINFECTANT TOWELS\_80 CT

Version 3.0 Revision Date 01/13/2025 Print Date 04/27/2025

Acids

Alkali metals

Hazardous decomposition

products

: Carbon oxides

Nitrogen oxides (NOx)

Ammonia

#### **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.

Causes serious eye irritation.

Review section 2 of SDS to see all potential hazards. 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:** 

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

Method: Calculation method

## Skin corrosion/irritation

**Product:** 

Result: Mild skin irritation

Method: Third Party Data - Actual or Inferred

## Serious eye damage/eye irritation

**Product:** 

Result: Eye irritation

Method: Third Party Data - Actual or Inferred

# ZEP CLEAN'EMS SPIRIT II DISINFECTANT TOWELS\_80 CT

Version 3.0 Revision Date 01/13/2025 Print Date 04/27/2025

## 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: No data available

## **SECTION 12. ECOLOGICAL INFORMATION**

## **Ecotoxicity**

## **Product:**

Toxicity to fish :

Remarks: Toxic to aquatic organisms.

Harmful to aquatic organisms, may cause long-term

adverse effects in the aquatic environment.

Toxicity to daphnia and

other aquatic invertebrates

Remarks: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Toxic to aquatic organisms.

## Persistence and degradability

No data available

# ZEP CLEAN'EMS SPIRIT II DISINFECTANT TOWELS\_80 CT

Version 3.0 Revision Date 01/13/2025 Print Date 04/27/2025

## **Bioaccumulative potential**

**Product:** 

Partition coefficient: n-

: Remarks: No data available

octanol/water Components:

2-(2-butoxyethoxy)ethanol:

Partition coefficient: n-: Pow: 1

octanol/water

Mobility in soil

No data available

Other adverse effects

No data available

Product:

40 CFR Protection of Environment; Part 82 Protection of Regulation

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.

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Provincial Environmental control agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for

guidance.

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):

# ZEP CLEAN'EMS SPIRIT II DISINFECTANT TOWELS\_80 CT

Version 3.0 Revision Date 01/13/2025 Print Date 04/27/2025

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**

This product is regulated under the United States Federal Insecticide, Fungicide and Rodenticide Act (FIFRA).

## Pesticide Labeling Information Required Under U.S. FIFRA Regulations

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label: CAUTION

Causes moderate eye irritation.

This pesticide is toxic to fish.

**TSCA list** : No substances are subject to a Significant New Use Rule.

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

requirements.

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

#### **CERCLA Reportable Quantity**

Components	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)
sodium hydroxide	1310-73-2	1000	*

<sup>\*:</sup> Calculated RQ exceeds reasonably attainable upper limit.

## SARA 304 Extremely Hazardous Substances Reportable Quantity

# ZEP CLEAN'EMS SPIRIT II DISINFECTANT TOWELS\_80 CT

Version 3.0 Revision Date 01/13/2025 Print Date 04/27/2025

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

SARA 311/312 Hazards : Serious eye damage or eye irritation

Serious eye damage or eye irritation

Specific target organ toxicity (single or repeated exposure)

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. The following components are subject to reporting levels

established by SARA Title III, Section 313:

2-(2-butoxyethoxy)ethanol 112-34-5 7.9972 %

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:

**DSL** All components of this product 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**

# ZEP CLEAN'EMS SPIRIT II DISINFECTANT TOWELS\_80 CT

Print Date 04/27/2025 Version 3.0 Revision Date 01/13/2025

## **Further information**

## NFPA:

HEALTH	2
FLAMMABILITY	1
INSTABILITY	0
SPECIAL HAZARD.	

<sup>0 =</sup> not significant, 1 =Slight, 2 = Moderate, 3 = High

## 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 mark

Signal word Hazard statements Precautionary statements Warning:

Causes serious eye irritation.

**Prevention:** Wash skin thoroughly after handling. Wear 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 eye irritation persists: Get medical advice/ attention.

Version:	3.0
Revision Date:	01/13/2025
Print Date:	04/27/2025

<sup>4 =</sup> Extreme

# SAFETY DATA SHEET ZEP CLEAN'EMS SPIRIT II DISINFECTANT TOWELS\_80 CT

Version 3.0 Revision Date 01/13/2025 Print Date 04/27/2025

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.