

# ZEP FOAMING COIL CLEANER AERO DZ

Version 1.0 Revision Date 01/30/2015 Print Date 09/13/2016

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

Material name : ZEP FOAMING COIL CLEANER AERO DZ

Material number : 00000000000020201

Manufacturer or supplier's details

Company : Zep Inc.

Address : 1310 Seaboard Industrial Blvd., NW

Atlanta, GA 30318

Telephone : 404-352-1680

# Emergency telephone numbers

For SDS Information : Compliance Services 1-877-428-9937

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

#### SECTION 2. HAZARDS IDENTIFICATION

### **Emergency Overview**

Appearance	Aerosol containing a liquefied gas
Colour	colourless, clear
Odour	characteristic

## **GHS Classification**

Gases under pressure : Liquefied gas

**GHS** Label element

Hazard pictograms

Signal word : Warning

Hazard statements : H280 Contains gas under pressure; may explode if heated.

Precautionary statements : **Storage:** 

P410 + P403 Protect from sunlight. Store in a well-ventilated

place.

### **Potential Health Effects**

# 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.



# ZEP FOAMING COIL CLEANER AERO DZ

Version 1.0 Revision Date 01/30/2015 Print Date 09/13/2016

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 identified as a carcinogen or potential

carcinogen by OSHA.

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.

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

### **Hazardous components**

Chemical Name	CAS-No.	Concentration [%]
1-(1-methyl-2-propoxyethoxy)propan-2-ol	29911-27-1	>= 1 - < 5
butane	106-97-8	>= 1 - < 5
propane-1,2-diol	57-55-6	>= 1 - < 5
propane	74-98-6	>= 1 - < 5
sodium nitrite	7632-00-0	>= 0.1 - < 1

### **SECTION 4. FIRST AID MEASURES**

General advice : 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.

In case of eye contact : Remove contact lenses.

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

Keep eye wide open while rinsing.

If swallowed : Keep respiratory tract clear.

Never give anything by mouth to an unconscious person. DO NOT induce vomiting unless directed to do so by a

physician or poison control center.

## **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media : Alcohol-resistant foam

Carbon dioxide (CO2)

Dry chemical

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.



# ZEP FOAMING COIL CLEANER AERO DZ

Version 1.0 Revision Date 01/30/2015 Print Date 09/13/2016

Hazardous combustion

products

: Carbon dioxide (CO2)

Carbon monoxide

Smoke

Specific extinguishing

methods

: Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

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.

Ensure adequate ventilation. Remove all sources of ignition.

Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

Environmental precautions : Prevent further leakage or spillage if safe to do so.

Methods and materials for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

Sweep up or vacuum up spillage and collect in suitable

container for disposal.

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

Advice on safe handling : For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the

application area.

Conditions for safe storage : BEWARE: Aerosol is pressurized. Keep away from direct sun

exposure and temperatures over 50 °C. Do not open by force or throw into fire even after use. Do not spray on flames or

red-hot objects.

Keep container tightly closed in a dry and well-ventilated

place.

Electrical installations / working materials must comply with

the technological safety standards.

Materials to avoid : Do not freeze.

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	Control	Basis
		(Form of	parameters /	



# ZEP FOAMING COIL CLEANER AERO DZ

Version 1.0 Revision Date 01/30/2015 Print Date 09/13/2016

		exposure)	Permissible concentration	
butane	106-97-8	TWA	800 ppm 1,900 mg/m3	NIOSH REL
		TWA	800 ppm 1,900 mg/m3	OSHA P0
propane-1,2-diol	57-55-6	TWA	10 mg/m3	US WEEL
propane	74-98-6	TWA	1,000 ppm	ACGIH
		TWA	1,000 ppm 1,800 mg/m3	NIOSH REL
		TWA	1,000 ppm 1,800 mg/m3	OSHA Z-1
		TWA	1,000 ppm 1,800 mg/m3	OSHA P0

## Personal protective equipment

Respiratory protection : In the case of dust or aerosol formation use respirator with an

approved filter.

Hand protection

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

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 : Wash hands before breaks and at the end of workday.

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

Appearance : Aerosol containing a liquefied gas

Colour : colourless, clear
Odour : characteristic
Odour Threshold : no data available

pH : 11 - 12.2 Melting point/freezing point : not applicable

Boiling point : 100 °C

Flash point :

not applicable

Evaporation rate : 1

Upper explosion limit : not applicable

Lower explosion limit : not applicable



# ZEP FOAMING COIL CLEANER AERO DZ

Version 1.0 Revision Date 01/30/2015 Print Date 09/13/2016

Vapour pressure : no data available
Relative vapour density : no data available
Density : 1.017 g/cm3

Solubility(ies)

Water solubility : soluble in hot water, soluble in cold water

Solubility in other solvents : 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

: Vapours may form explosive mixture with air.

No decomposition if stored and applied as directed.

Conditions to avoid : Heat, flames and sparks.

Incompatible materials : Oxidizing agents

Acids

Hazardous decomposition

products

Carbon oxides

Organic Substances

### **SECTION 11. TOXICOLOGICAL INFORMATION**

## Acute toxicity

**Product:** 

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

Method: Calculation method

### Skin corrosion/irritation

no data available

## Serious eye damage/eye irritation

no data available

## Respiratory or skin sensitisation



# ZEP FOAMING COIL CLEANER AERO DZ

Version 1.0 Revision Date 01/30/2015 Print Date 09/13/2016

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

**Product:** 

Carcinogenicity - : Not classifiable as a human carcinogen.

Assessment

Reproductive toxicity

no data available

1-(1-methyl-2-propoxyethoxy)propan-2-ol:

butane:

propane-1,2-diol:

propane:

sodium nitrite:

STOT - single exposure

no data available

STOT - repeated exposure

no data available

**Aspiration toxicity** 

no data available

**Further information** 

**Product:** 

Remarks: no data available

Remarks: no data available

## **SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity** 

no data available

Persistence and degradability

no data available

Bioaccumulative potential

Product:

Partition coefficient: n- : Remarks: no data available

octanol/water

**Components:** 

**1-(1-methyl-2-propoxyethoxy)propan-2-ol**: Partition coefficient: n-: Pow: 7.7



# ZEP FOAMING COIL CLEANER AERO DZ

Version 1.0 Revision Date 01/30/2015 Print Date 09/13/2016

octanol/water

butane:

Partition coefficient: n-

octanol/water

propane-1,2-diol:

Partition coefficient: n-

octanol/water

: Pow: 2.89

: log Pow: -1.07

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

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.

Do not burn, or use a cutting torch on, the empty drum.

## **SECTION 14. TRANSPORT INFORMATION**

# International regulation

IATA-DGR

UN/ID No. : 1950

Proper shipping name : Aerosols, non-flammable

Class : 2.2

Packing group : Not Assigned



# ZEP FOAMING COIL CLEANER AERO DZ

Version 1.0 Revision Date 01/30/2015 Print Date 09/13/2016

Labels : 2.2 Packing instruction (cargo : 203

aircraft)

Packing instruction : 203

(passenger aircraft)

**IMDG-Code** 

UN number : 1950

Proper shipping name : AEROSOLS

Class : 2.2

Packing group : Not Assigned

Labels : 2.2 EmS Code : F-D, S-U

Marine pollutant : no

## Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

# **National Regulations**

**49 CFR** 

UN/ID/NA number : 1950

Proper shipping name : Aerosols, non-flammable

Class : 2.2

Packing group : Not Assigned

Labels : 2.2 ERG Code : 126 Marine pollutant : no

## Special precautions for user

not applicable

### **SECTION 15. REGULATORY INFORMATION**

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

# **CERCLA Reportable Quantity**

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

<sup>\*:</sup> 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 : Sudden Release of Pressure Hazard



# ZEP FOAMING COIL CLEANER AERO DZ

Version 1.0 Revision Date 01/30/2015 Print Date 09/13/2016

SARA 302 : SARA 302: No chemicals in this material are subject to the

reporting requirements of SARA Title III, Section 302.

SARA 313 : 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.

AICS

Not in compliance with the inventory

NZIOC

Not in compliance with the inventory

PICCS

Not in compliance with the inventory

IECSC

Not in compliance with the inventory

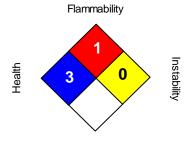
# **Inventory Acronym and Validity Area Legend:**

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

### **SECTION 16. OTHER INFORMATION**

# **Further information**

NFPA:



Special hazard.

#### HMIS III:

HEALTH	3
FLAMMABILITY	0
PHYSICAL HAZARD	2

0 = not significant, 1 = Slight,

2 = Moderate, 3 = High

4 = Extreme, \* = Chronic

### OSHA GHS Label Information:

Hazard pictograms





# ZEP FOAMING COIL CLEANER AERO DZ

Version 1.0 Revision Date 01/30/2015 Print Date 09/13/2016

Signal word : Warning:

Hazard statements : Contains gas under pressure; may explode if heated.

Precautionary statements

**Storage:** Protect from sunlight. Store in a well-ventilated place.

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.

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