

## Zep Dazzle Aero DZ

Version 2.0 Revision Date 07/13/2015 Print Date 05/09/2016

#### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Material name Zep Dazzle Aero DZ

Material number 000000000000022001

Manufacturer or supplier's details

Company Zep Inc.

1310 Seaboard Industrial Blvd., NW Address

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 CHEMTREC: 800-424-9300 - All Calls Recorded. For a Transportation

In the District of Columbia 202-483-7616 Emergency

#### **SECTION 2. HAZARDS IDENTIFICATION**

### **Emergency Overview**

Appearance	Aerosol containing a liquefied gas	
Colour	milky	
Odour	pleasant	

## **GHS Classification**

Gases under pressure : Liquefied gas

Eye irritation : Category 2A

**GHS** Label element

Hazard pictograms





Signal word : Warning

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

H319 Causes serious eye irritation.

Precautionary statements : Prevention:

P264 Wash skin thoroughly after handling. P280 Wear eye 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.

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

attention. Storage:



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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.

ACGIH Confirmed animal carcinogen with unknown relevance to

humans

2-butoxyethanol 111-76-2

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 [%]
ethanol	64-17-5	>= 5 - < 10
butane	106-97-8	>= 1 - < 5
propan-2-ol	67-63-0	>= 1 - < 5
2-butoxyethanol	111-76-2	>= 1 - < 5
sodium nitrite	7632-00-0	>= 0.1 - < 1

## **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 : If skin irritation persists, call a physician.

Wash off immediately with plenty of water for at least 15

minutes.

If on clothes, remove clothes.

In case of eye contact : Remove contact lenses.

Protect unharmed eye.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist. If in eyes, rinse with water for 15 minutes.

If swallowed : Keep respiratory tract clear.

Never give anything by mouth to an unconscious person.



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If symptoms persist, call a physician.

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 Water spray jet

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

Smoke

Silicon oxides

Specific extinguishing

methods

Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

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, protective equipment and emergency procedures : Use personal protective equipment.

Ensure adequate ventilation.

Evacuate personnel to safe areas. 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

for : Neutralise with acid.

## 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.

Always replace cap after use.



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Dispose of rinse water in accordance with local and national

regulations.

Do not breathe vapours or spray mist.

Avoid exposure - obtain special instructions before use. Take precautionary measures against static discharges.

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.

Observe label precautions.

Keep in a dry, cool and well-ventilated place.

Electrical installations / working materials must comply with

the technological safety standards.

Materials to avoid : Oxidizing agents

Do not store near 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
ethanol	64-17-5	TWA	1,000 ppm	ACGIH
		TWA	1,000 ppm 1,900 mg/m3	NIOSH REL
		TWA	1,000 ppm 1,900 mg/m3	OSHA Z-1
		TWA	1,000 ppm 1,900 mg/m3	OSHA P0
butane	106-97-8	TWA	800 ppm 1,900 mg/m3	NIOSH REL
		TWA	800 ppm 1,900 mg/m3	OSHA P0
propan-2-ol	67-63-0	TWA	200 ppm	ACGIH
		STEL	400 ppm	ACGIH
		TWA	400 ppm 980 mg/m3	NIOSH REL
		ST	500 ppm 1,225 mg/m3	NIOSH REL
		TWA	400 ppm 980 mg/m3	OSHA Z-1
		TWA	400 ppm 980 mg/m3	OSHA P0
		STEL	500 ppm 1,225 mg/m3	OSHA P0
2-butoxyethanol	111-76-2	TWA	20 ppm	ACGIH
		TWA	5 ppm 24 mg/m3	NIOSH REL
		TWA	50 ppm 240 mg/m3	OSHA Z-1
		TWA	25 ppm 120 mg/m3	OSHA P0



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## Biological occupational exposure limits

Component	CAS-No.	Control	Biological	Sampling	Permissible	Basis
		parameters	specimen	time	concentration	
PROPAN-2-OL	67-63-0	Acetone	Urine	End of shift at end of workwee k	40 mg/l	ACGIH BEI
2-BUTOXYETHANOL	111-76-2	Butoxyacetic acid (BAA)	Urine	End of shift (As soon as possible after exposure ceases)	200 mg/g	ACGIH BEI
Remarks: Creatinine						

## 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

Remarks : The suitability for a specific workplace should be discussed

with the producers of the protective gloves.

Eye protection : Tightly fitting safety goggles

Wear face-shield and protective suit for abnormal processing

problems.

Ensure that eyewash stations and safety showers are close to

the workstation location.

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 : Aerosol containing a liquefied gas

Colour : milky
Odour : pleasant
pH : 10.06 - 11.06
Melting point/freezing point : Not applicable
Boiling point : not determined

Flash point :



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No data available

Evaporation rate : No data available

Flammability (solid, gas) : The product is not flammable.

Upper explosion limit : No data available
Lower explosion limit : No data available
Vapour pressure : not determined
Density : 0.98 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

Heat of combustion : < 20 kJ/g

## **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 : Extremes of temperature and direct sunlight.

Heat, flames and sparks.

Incompatible materials : Oxidizing agents

Hazardous decomposition

products

: Carbon oxides

## **SECTION 11. TOXICOLOGICAL INFORMATION**

### Acute toxicity

**Product:** 

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

Method: Calculation method



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Acute inhalation toxicity : Acute toxicity estimate : > 10 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist Method: Calculation method

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

Method: Calculation method

#### Components:

ethanol:

Acute oral toxicity : LD50 Oral Rat: 7,060 mg/kg

Acute inhalation toxicity : LC50 Rat: 124.7 mg/l

Exposure time: 4 h

butane:

Acute inhalation toxicity : LC50 Mouse: 1,237 mg/l

Exposure time: 2 h

LC50 Rat: 1,355 mg/l

propan-2-ol:

Acute oral toxicity : LD50 Oral Rat: 4,396 mg/kg

Method: Calculation method

## 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

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

ethanol: butane: propan-2-ol:



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2-butoxyethanol: 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

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

#### **Ecotoxicity**

No data available

Persistence and degradability

No data available

**Bioaccumulative potential** 

**Product:** 

Partition coefficient: n-

octanol/water <a href="Components:">Components:</a>
butane :

Partition coefficient: n- : Pow: 2.89

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

: Remarks: No data available

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



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#### **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**

Transportation Regulation: 49 CFR (USA): ORM-D, CONSUMER COMMODITY

Transportation Regulation: IMDG (Vessel):

UN1950, AEROSOLS, NON-FLAMMABLE, 2.2, - Limited quantity

Transportation Regulation: IATA (Cargo Air):

UN1950, AEROSOLS, NON-FLAMMABLE, 2.2, - Limited quantity

Transportation Regulation: IATA (Passenger Air):

UN1950, AEROSOLS, NON-FLAMMABLE, 2.2, - Limited quantity

Transportation Regulation: TDG (Canada):

UN1950, AEROSOLS, NON-FLAMMABLE, 2.2, - Limited quantity

#### SECTION 15. REGULATORY INFORMATION

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

## **CERCLA Reportable Quantity**

Components	CAS-No.	'	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

Acute Health Hazard



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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 WARNING! This product contains a chemical known to the

State of California to cause cancer.

2,2'-iminodiethanol 111-42-2

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive

harm.

methanol 67-56-1

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

TSCA On TSCA Inventory

**DSL** This product contains the following components listed on the Canadian

NDSL. All other components are on the Canadian DSL.

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

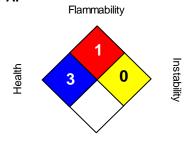
#### **Inventory Acronym and Validity Area Legend:**

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIOC (New Zealand), PICCS (Philippines), TCSI (Taiwan), 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:



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Hazard pictograms





Signal w ord Hazard statements Precautionary statements Warning:

Contains gas under pressure; may explode if heated. 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.

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

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