

ZEP 40 (AEROSOL)

Version 2.1

Revision Date 11/16/2015

Print Date 02/17/2016

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Material name

ZEP 40 (AEROSOL)

Material number

00000000000014401

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	alcohol-like, slight

GHS Classification

Gases under pressure

Eye imitation

Liquefied gas : 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.

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 imitation persists: Get medical advice/

attention. Storage:

1 / 11





Version 2.1

Revision Date 11/16/2015

Print Date 02/17/2016

P410 + P412 Protect from sunlight. Do not expose to

temperatures exceeding 50 °C/ 122 °F. P403 Store in a well-ventilated place.

Potential Health Effects

Carcinogenicity:

OSHA

NTP

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.

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.

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

Substance / Mixture

: Mixture

Hazardous components

Chemical Name	CAS-No.	Concentration [%]
ethanol	64-17-5	>= 10 - < 20
butane	106-97-8	>= 1 - < 5
propane	74-98-6	>= 1 - < 5

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.

Get medical attention if irritation develops and persists.

In case of eye contact

: Remove contact lenses.

Protect unharmed eve.

Keep eye wide open while rinsing.

If eye imitation 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.

If symptoms persist, call a physician.



ZEP 40 (AEROSOL)

Version 2.1

Revision Date 11/16/2015

Print Date 02/17/2016

DO NOT induce vomiting unless directed to do so by a physician or poison control center.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media

Water spray jet

Carbon dioxide (CO2) Alcohol-resistant foam

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.

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.

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.

Refer to protective measures listed in sections 7 and 8. 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

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.



ZEP 40 (AEROSOL)

Version 2.1 Revision Date 11/16/2015 Print Date 02/17/2016

Dispose of rinse water in accordance with local and national

regulations.

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

Do not breathe vapours or spray mist.

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

Do not freeze.

Strong oxidizing agents

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	4,000 ppm 4,900 mg/m3	NIOSH REL
		TWA	1,000 ppm 1,900 mg/m3	OSHA Z-1
		TWA	1,900 ppm 1,900 rng/m3	OSHA PO
Butane	106-97-8	TWA	800 ppm 1,900 mg/m3	NIOSH REL
		TWA	800 ppm 1 900 ing/m3	OSHA PO
propane	74-98-6	TW.A	1.000 ppm	ACGIH
		TWA	1,000 ppm i,800 mg/m3	NIOSH REL
		TWA	1 000 ppm :1 800 mg/m3	OSHA Z-1
		TW.A	1,000 ppm 1,800 mg/m3	OSHA PO

Engineering measures

: Handle only in a place equipped with local exhaust (or other

appropriate exhaust).

Personal protective equipment

Respiratory protection

: In case of insufficient ventilation, wear suitable respiratory

equipment.

Hand protection

Remarks

: The suitability for a specific workplace should be discussed



ZEP 40 (AEROSOL)

Version 2.1 Revision Date 11/16/2015 Print Date 02/17/2016

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 : colourless, clear

Odour : alcohol-like, slight

Odour Threshold : No data available

рΗ not determined

Melting point/freezing point Not applicable

Boiling point 93 °C

Flash point

Not applicable Evaporation rate

: 1

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

Upper explosion limit Not applicable Lower explosion limit Not applicable

Vapour pressure : No data available Relative vapour density No data available

Density 1.1 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



ZEP 40 (AEROSOL)

Version 2.1 Revision Date 11/16/2015

Print Date 02/17/2016

Viscosity

Viscosity, kinematic

Not applicable

Heat of combustion

: 7.94 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

: Heat, flames and sparks.

Extremes of temperature and direct sunlight.

Incompatible materials

: Strong oxidizing agents

Hazardous decomposition

products

: Carbon monoxide, carbon dioxide and unburned

hydrocarbons (smoke).

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:

Acute oral 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

propane:

Acute inhalation toxicity

: LC50 Mouse 1,237 mg/l

Exposure time 2 h



ZEP 40 (AEROSOL)

Version 2.1

Revision Date 11/16/2015

Print Date 02/17/2016

LC50 Rat 658 mg/l Exposure time: 4 h

LC50 Rat 1,355 mg/l

Skin corrosion/irritation

Product:

Remarks: May cause skin irritation in susceptible persons.

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:

propane:

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



ZEP 40 (AEROSOL)

Version 2.1

Revision Date 11/16/2015

Print Date 02/17/2016

Persistence and degradability

No data available

Bioaccumulative potential

Product:

Partition coefficient: n-

octanol/water Components: butane : : Remarks: No data available

Partition coefficient n-

natuuon Coemicieni 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

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.

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):



ZEP 40 (AEROSOL)

Version 2.1 ___ Revision Date 11/16/2015 Print Date 02/17/2016

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.	Component RQ (lbs)	Calculated product RQ (lbs)
ammonia, aqueous solution	1336-21-6	1000	

^{*:} Calculated RQ exceeds reasonably attainable upper limit.

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

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

SARA 311/312 Hazards

: Acute Health Hazard

Sudden Release of Pressure Hazard

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

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:



ZEP 40 (AEROSOL)

Version 2.1

Revision Date 11/16/2015

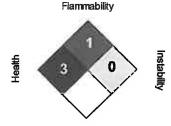
Print Date 02/17/2016

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:

Hazard pictograms





Signal word 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: F N 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. Do not expose to temperatures exceeding 50 °C/ 122 °F. Store in a well-ventilated place.

Version:	2.1
Revision Date:	11/16/2015
Print Date:	02/17/2016

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Zep Inc. markets products under well recognized and established brand names such as Zep®, Zep Commercial®,Zep Professional®, Enforcer®, National Chemical™, Selig™, Misty®, Next Dimension™, Petro®, i-Chem®, TimeMist®, TimeWick™, MicrobeMax®, Country Vet®,



ZEP 40 (AEROSOL)

Version 2.1

Revision Date 11/16/2015

Print Date 02/17/2016

Konk®, Original Bike Spirits®, Blue Coral®, Black Magic®, Rain-X®, Niagara National™, FC Forward Chemicals®,Rexodan®, Mykal™, and a number of private labeled brands.