

# **ZEP NAV II EXTERIOR AIRCRAFT CLNR 55 GAL**

Version 2.0 Revision Date 05/10/2018 Print Date 06/21/2019

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

Material name : ZEP NAV II EXTERIOR AIRCRAFT CLNR 55 GAL

Material number : H81285

Manufacturer or supplier's details

Company : Zep Inc.

Address : 350 Joe Frank Harris Parkway, SE

Emerson, GA 30137

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

Recommended use of the chemical and restrictions on use

Recommended use : Transportation Wash

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

# **Emergency Overview**

Appearance	viscous
Colour	colourless, light yellow
Odour	like soap

### **GHS Classification**

Skin irritation : Category 2
Serious eye damage : Category 1
Carcinogenicity : Category 2
Specific target organ toxicity - : Category 2

repeated exposure (Oral)

**GHS** label elements

Hazard pictograms





Signal word : Danger

Hazard statements : H315 Causes skin irritation.

H318 Causes serious eye damage. H351 Suspected of causing cancer.

H373 May cause damage to organs through prolonged or

repeated exposure if swallowed.



Version 2.0 Revision Date 05/10/2018 Print Date 06/21/2019

Precautionary statements : Prevention:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read

and understood.

P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash skin thoroughly after handling.

P280 Wear protective gloves/ protective clothing/ eye

protection/ face protection.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON

CENTER/doctor.

P308 + P313 IF exposed or concerned: Get medical advice/

attention.

P332 + P313 If skin irritation occurs: Get medical advice/

attention.

P362 Take off contaminated clothing and wash before reuse.

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 [%]
Alcohols, C9-11, ethoxylated	68439-46-3	>= 20 - < 30
Amides, coco, N,N-bis(hydroxyethyl)	68603-42-9	>= 10 - < 20
D-Glucopyranose, oligomers, decyl octyl glycosides	68515-73-1	>= 1 - < 3
2,2'-iminodiethanol	111-42-2	>= 1 - < 3
propane-1,2-diol	57-55-6	>= 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.

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.

Move to fresh air.

In case of skin contact : Wash off with soap and water.

If skin irritation persists, call a physician.



Version 2.0 Revision Date 05/10/2018 Print Date 06/21/2019

Wash off immediately with plenty of water for at least 15

minutes.

If on clothes, remove clothes.

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

tissue damage and blindness.

Rinse immediately with plenty of water for at least 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 Clean mouth with water and drink afterwards plenty of water.

> 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 blistering, irritation, burns, and pain.

Chronic effects are delayed and symptoms may not be

observed during an exposure.

Symptoms may differ depending on organs and systems affected. These effects generally are reflected in reduced function or change, which may include cramping, swelling,

respiratory issues, and general pain.

Effects are dependent on exposure (dose, concentration,

contact time).

Causes skin irritation.

Causes serious eye damage.

May cause damage to organs through prolonged or repeated

exposure if swallowed. Suspected of causing cancer.

Review section 2 of SDS to see all potential hazards.

: Treat symptomatically. Symptoms may be delayed. Notes to physician

### **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media : Drv chemical

Water

Carbon dioxide (CO2)

Foam

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 : Carbon dioxide (CO2)



# ZEP NAV II EXTERIOR AIRCRAFT CLNR 55 GAL

Version 2.0 Revision Date 05/10/2018 Print Date 06/21/2019

products Carbon monoxide

Nitrogen oxides (NOx)

Smoke

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.

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 exposure - obtain special instructions before use.

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

Smoking, eating and drinking should be prohibited in the

application area.

Provide sufficient air exchange and/or exhaust in work rooms. Container may be opened only under exhaust ventilation

hood.

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.

Observe label precautions.

Electrical installations / working materials must comply with

the technological safety standards.

Materials to avoid : Oxidizing agents

Strong acids



Version 2.0 Revision Date 05/10/2018 Print Date 06/21/2019

### **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'-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
propane-1,2-diol	57-55-6	TWA	10 mg/m3	US WEEL

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

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

Material : Protective gloves

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

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.

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 : viscous

Colour : colourless, light yellow



# **ZEP NAV II EXTERIOR AIRCRAFT CLNR 55 GAL**

Version 2.0 Revision Date 05/10/2018 Print Date 06/21/2019

Odour : like soap

Odour Threshold : No data available

pH : 8.5 - 9.5

Melting point/freezing point : No data available

Boiling point : 104.4 °C

Flash point :

Not applicable

Evaporation rate : No data available
Upper explosion limit : No data available
Lower explosion limit : No data available

Vapour pressure : 80 hPa

Relative vapour density : No data available

Density : 1.021 g/cm3

Solubility(ies)

Water solubility : soluble

Solubility in other solvents : Not applicable

Partition coefficient: n-

octanol/water

: No data available

Auto-ignition temperature : not determined

Thermal decomposition : No data available

Viscosity

Viscosity, kinematic : 77.3 mm2/s (20 °C)

### **SECTION 10. STABILITY AND REACTIVITY**

Reactivity : No decomposition if stored and applied as directed.

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

Acids

Hazardous decomposition

products

: Carbon oxides

Nitrogen oxides (NOx)



Version 2.0 Revision Date 05/10/2018 Print Date 06/21/2019

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

#### **Potential Health Effects**

Aggravated Medical

: None known.

Condition

Symptoms of Overexposure

: Effects are immediate and delayed.

Symptoms may include blistering, irritation, burns, and pain. Chronic effects are delayed and symptoms may not be

observed during an exposure.

Symptoms may differ depending on organs and systems affected. These effects generally are reflected in reduced function or change, which may include cramping, swelling,

respiratory issues, and general pain.

Effects are dependent on exposure (dose, concentration,

contact time).

Carcinogenicity:

IARC Group 2B: Possibly carcinogenic to humans

Amides, coco, N,N- 68603-42-9

bis(hydroxyethyl)

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 : 4,588 mg/kg

Method: Calculation method

**Components:** 

Alcohols, C9-11, ethoxylated:

Acute oral toxicity : LD50 Oral Rat: 1,400 mg/kg

Skin corrosion/irritation

**Product:** 

Remarks: Irritating to skin.

Serious eye damage/eye irritation

**Product:** 

Remarks: May cause irreversible eye damage.



# **ZEP NAV II EXTERIOR AIRCRAFT CLNR 55 GAL**

Version 2.0 Revision Date 05/10/2018 Print Date 06/21/2019

### 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

**Aspiration toxicity** 

No data available

### **Further information**

**Product:** 

Remarks: No data available

**Components:** 

Amides, coco, N,N-bis(hydroxyethyl):

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:** 

Amides, coco, N,N-bis(hydroxyethyl):

Partition coefficient: n- : Remarks: No data available

octanol/water

2,2'-iminodiethanol:



# **ZEP NAV II EXTERIOR AIRCRAFT CLNR 55 GAL**

Version 2.0 Revision Date 05/10/2018 Print Date 06/21/2019

Partition coefficient: n-

octanol/water propane-1,2-diol: : Pow: 1.43

Partition coefficient: n-

: log Pow: -1.07

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

Components:

Amides, coco, N,N-bis(hydroxyethyl):

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.

#### **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



### **ZEP NAV II EXTERIOR AIRCRAFT CLNR 55 GAL**

Version 2.0 Revision Date 05/10/2018 Print Date 06/21/2019

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**

**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 (lbs)	Calculated product RQ (lbs)
2,2'-iminodiethanol	111-42-2	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 : Skin corrosion or irritation

Serious eye damage or eye irritation

Carcinogenicity

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 : The following components are subject to reporting levels

established by SARA Title III, Section 313:

2,2'-iminodiethanol 111-42-2 1.7979 %

### California Prop. 65



Version 2.0 Revision Date 05/10/2018 Print Date 06/21/2019



WARNING: This product can expose you to chemicals including Amides, coco, N,N-bis(hydroxyethyl), 2,2'iminodiethanol, which is/are known to the State of California to cause cancer, and methanol, which is/are known to the State of California to cause birth defects or other reproductive harm. 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

For information on the country notification status for other regions please contact the manufacturer's regulatory group.

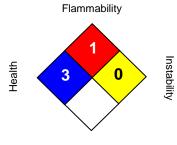
# **Inventory Acronym and Validity Area Legend:**

TSCA (USA), DSL (Canada), NDSL (Canada)

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

#### **Further information**

#### NFPA:



Special hazard.

#### HMIS III:

HEALTH	3*
FLAMMABILITY	1
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,

2 = Moderate, 3 = High

4 = Extreme, \* = Chronic

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

Hazard pictograms





Danger: Signal word Hazard statements

Causes skin irritation. Causes serious eye damage. Suspected of causing cancer. May

cause damage to organs through prolonged or repeated exposure if swallowed.

Precautionary statements

Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/ fume/ gas/ mist/ vapours/ spray. Wash skin thoroughly after handling. Wear protective gloves/ protective



### **ZEP NAV II EXTERIOR AIRCRAFT CLNR 55 GAL**

Version 2.0 Revision Date 05/10/2018 Print Date 06/21/2019

clothing/ eye protection/ face protection.

Response: IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. IF exposed or concerned: Get medical advice/ attention. If skin irritation occurs: Get medical advice/ attention. Take off contaminated clothing and wash before reuse.

Disposal: Dispose of contents/container in accordance with local regulation.

Version:	2.0	
Revision Date:	05/10/2018	
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