

CONAPOXY® FR-1830 Part A Resin

Version 1

Revision Date 11/14/2017

Print Date 11/14/2017

SECTION 1. IDENTIFICATION

Product name : CONAPOXY® FR-1830 Part A Resin

Manufacturer or supplier's details

Company : ELANTAS PDG, INC.
5200 North 2nd Street
St. Louis MO 63147

Telephone : (314) 621-5700

Visit our web site : www.elantas.com

E-mail address : Todd.Thomas@altana.com

Emergency telephone number : INFOTRAC - 1-800-535-5053

Recommended use of the chemical and restrictions on use

Recommended use : Electrical Insulation

Restrictions on use : Refer to Section 15 for any restrictions that may apply

SECTION 2. HAZARDS IDENTIFICATION**GHS Classification**

Skin irritation : Category 2

Eye irritation : Category 2A

Skin sensitisation : Category 1

Carcinogenicity : Category 2

Specific target organ toxicity
- repeated exposure
(Inhalation) : Category 2 (Lungs)

GHS label elements

Hazard pictograms :



Signal word : Warning

Hazard statements : H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H351 Suspected of causing cancer.
H373 May cause damage to organs (Lungs) through prolonged
or repeated exposure if inhaled.

CONAPOXY® FR-1830 Part A Resin

Version 1

Revision Date 11/14/2017

Print Date 11/14/2017

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.
 P272 Contaminated work clothing should not be allowed out of the workplace.
 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 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P308 + P313 IF exposed or concerned: Get medical advice/ attention.
 P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
 P337 + P313 If eye irritation persists: Get medical advice/ attention.
 P362 Take off contaminated clothing and wash before reuse.

Storage:
 P405 Store locked up.

Disposal:
 P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : Modified epoxy resin

Hazardous components

Component	CAS-No.	Concentration (%)
Epoxy Resin	25085-99-8	>= 32 - < 33
Epoxy diluent	17557-23-2	>= 7 - < 8
Kaolin	1332-58-7	>= 3 - < 4
Triethyl phosphate	78-40-0	>= 2 - < 3
Carbon black	1333-86-4	>= 0.1 - < 1
Phosphoric Acid Polyester	-	>= 0.1 - < 1

CONAPOXY® FR-1830 Part A Resin

Version 1

Revision Date 11/14/2017

Print Date 11/14/2017

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.
If on skin, rinse well with water.
If on clothes, remove clothes.
- In case of eye contact : Immediately flush eye(s) with plenty of water.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.
- If swallowed : Induce vomiting immediately and call a physician.
Keep respiratory tract clear.
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.

SECTION 5. FIREFIGHTING MEASURES

- Unsuitable extinguishing media : High volume water jet
- 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.
- Environmental precautions : 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

CONAPOXY® FR-1830 Part A Resin

Version 1

Revision Date 11/14/2017

Print Date 11/14/2017

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.
 Absorbent paper or other organic material used for cleaning up resin is a fire hazard, as heat and spontaneous combustion can occur, particularly if the resin was catalyzed. Catalyzed resin can generate hazardous exothermic heat if allowed to polymerize in a mass. All soiled or waste materials must be water soaked, and kept in a closed bin until disposed of.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling : Do not breathe vapours/dust.
 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.
 Dispose of rinse water in accordance with local and national regulations.
 Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
 The chemical reaction that cures mixed epoxy is exothermic (heat generating). If left to cure in a contained mass, such as in a mixing vessel, it can generate enough heat to melt plastic, burn skin or ignite surrounding combustible materials. The larger or thicker the epoxy mass, the more heat generated.

Conditions for safe storage : Store under conditions specified on the product Technical Data Sheet to maintain product quality.
 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.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Kaolin	1332-58-7	TWA	2 mg/m ³	ACGIH

CONAPOXY® FR-1830 Part A Resin

Version 1

Revision Date 11/14/2017

Print Date 11/14/2017

		(Respirable fraction)		
		TWA (total dust)	15 mg/m ³	OSHA Z-1
		TWA (respirable fraction)	5 mg/m ³	OSHA Z-1
		TWA (Total dust)	10 mg/m ³	OSHA P0
		TWA (respirable dust fraction)	5 mg/m ³	OSHA P0
Triethyl phosphate	78-40-0	TWA	7.45 mg/m ³	US WEEL
Carbon black	1333-86-4	TWA	3.5 mg/m ³	ACGIH
		TWA	3.5 mg/m ³	OSHA Z-1

Engineering measures : Use with adequate ventilation.
 All application areas should be ventilated in accordance with applicable OSHA regulations. (29 CFR 1910.94)
 This product contains a particulate(s) that is considered hazardous per OSHA (29 CFR 1910.1200) and is listed in Section III as a precautionary warning.
 Under normal conditions of use, this product as supplied does not pose a health risk from particulate matter.
 Physical degradation of the cured product (i.e. sanding, abrading, etc.) may pose a dust hazard.
 Repeated inhalation of such dust may cause lung injury.

Personal protective equipment

Respiratory protection : In the case of vapour formation use a 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
 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.

CONAPOXY® FR-1830 Part A Resin

Version 1

Revision Date 11/14/2017

Print Date 11/14/2017

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Odour Threshold	: No data available
pH	: No data available
Melting point/freezing point	: No data available
Initial boiling point and boiling range	: No data available
Vapour pressure	: No data available
Flash point	: > 201 °F (> 94 °C) Method: No information available. Information taken from reference works and the literature.
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Evaporation rate	: No data available
Flammability (solid, gas)	: No data available
Relative vapour density	: No data available
Relative Density/Specific Gravity	: No data available
Density	: 1.59 g/cm ³ (77 °F (25 °C))
Solubility(ies)	
Water solubility	: No data available
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: No data available
Thermal decomposition	: No data available
Viscosity	
Viscosity, dynamic	: No data available

CONAPOXY® FR-1830 Part A Resin

Version 1

Revision Date 11/14/2017

Print Date 11/14/2017

Viscosity, kinematic : > 22 mm²/s (104 °F (40 °C))**SECTION 10. STABILITY AND REACTIVITY**

Reactivity : No decomposition if stored and applied as directed.

Chemical stability : No decomposition if stored and applied as directed.

Possibility of hazardous reactions : No decomposition if stored and applied as directed.

Conditions to avoid : No data available

Hazardous decomposition products : Carbon monoxide in a fire.
Nitrogen oxides in a fire.

SECTION 11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure****Acute toxicity****Product:**Acute oral toxicity : Acute toxicity estimate : > 5,000 mg/kg
Method: Calculation methodAcute dermal toxicity : Acute toxicity estimate : > 5,000 mg/kg
Method: Calculation method**Components:****17557-23-2 Epoxy diluent:**

Acute oral toxicity : LD50 (Rat): 4,500 mg/kg

Acute dermal toxicity : LD50 (Rabbit): 2,150 mg/kg

78-40-0 Triethyl phosphate:

Acute oral toxicity : LD50 (Rat): 1,165 mg/kg

Skin corrosion/irritation**Product:**

Remarks: May cause skin irritation and/or dermatitis.

Components:**17557-23-2 Epoxy diluent:**

Result: Moderate skin irritation

CONAPOXY® FR-1830 Part A Resin

Version 1

Revision Date 11/14/2017

Print Date 11/14/2017

Serious eye damage/eye irritation**Product:**

Remarks: May cause irreversible eye damage.

Components:**17557-23-2 Epoxy diluent:**

Result: Mild eye irritation

78-40-0 Triethyl phosphate:

Species: Rabbit

Result: Moderate eye irritation

Respiratory or skin sensitisation**Product:**

Remarks: Causes sensitisation.

Carcinogenicity**IARC**

Group 2B: Possibly carcinogenic to humans

Carbon black

1333-86-4

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.

Further information**Product:**

Remarks: No data available

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity****Components:****78-40-0 Triethyl phosphate:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): > 1,000 mg/l

CONAPOXY® FR-1830 Part A Resin

Version 1

Revision Date 11/14/2017

Print Date 11/14/2017

Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): 330 mg/l
 Exposure time: 96 h

Persistence and degradability

No data available

Bioaccumulative potential

No data available

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**

EPA Hazardous Waste Code(s) : none

Waste from residues : Do not dispose of waste into sewer.
 Do not contaminate ponds, waterways or ditches with chemical or used container.
 Send to a licensed waste management company.
 Catalyzed resin can generate hazardous exothermic heat if allowed to polymerize in a mass. All soiled or waste materials must be water soaked, and kept in a closed bin until disposed of.
 Dispose of the solid mass only if cure is complete and the mass has cooled. Follow federal, state or local disposal regulations.

Contaminated packaging : Empty remaining contents.
 Dispose of as unused product.
 Do not re-use empty containers.

CONAPOXY® FR-1830 Part A Resin

Version 1

Revision Date 11/14/2017

Print Date 11/14/2017

SECTION 14. TRANSPORT INFORMATION**International Regulations****IATA-DGR**

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

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**

Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION**EPCRA - Emergency Planning and Community Right-to-Know Act****US. EPA CERCLA Hazardous Substances (40 CFR 302)**

Calculated RQ exceeds reasonably attainable upper limit.

SARA 304 - Emergency Release Notification

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

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A)

This material does not contain any components with a SARA 302 RQ.

SARA 311/312 Hazards : Per the June 13, 2016 Federal Register notice, EPA harmonized the EPCRA 311/312 hazard categories with the 2012 OSHA hazard communication standard for classifying and labeling of chemicals (i.e. GHS). Please refer to Section 2 of the SDS to identify the appropriate hazard categories for reporting purposes.

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.

Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

CONAPOXY® FR-1830 Part A Resin

Version 1

Revision Date 11/14/2017

Print Date 11/14/2017

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMII Intermediate or Final VOC's (40 CFR 60.489).

Non-volatile (Wt) : Refer to the product technical data sheet for VOC information.

US State Regulations
Massachusetts Right To Know

Kaolin	1332-58-7
--------	-----------

Pennsylvania Right To Know

Aluminium hydroxide	21645-51-2
Epoxy Resin	25085-99-8
Epoxy diluent	17557-23-2
Organophosphorous Salt	-
Kaolin	1332-58-7
Phosphoric acid (residual)	7664-38-2

New Jersey Right To Know

Aluminium hydroxide	21645-51-2
Epoxy Resin	25085-99-8
Epoxy diluent	17557-23-2
Organophosphorous Salt	-
Kaolin	1332-58-7
Carbon black	1333-86-4

New Jersey Trade Secret Registry Number for the product (NJ TSRN) : Not Applicable

California Prop 65

WARNING! This product contains a chemical known to the State of California to cause cancer.

Kaolin	1332-58-7
Carbon black	1333-86-4
Cumene (component of Solvent naphtha, petroleum, light aromatic)	98-82-8

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

TSCA : We certify that all of the components of this product are either listed on the TSCA Inventory or are not subject to the notification requirements per 40 CFR 720 30(h).

Section 4 / 12(b) : Not applicable

CONAPOXY® FR-1830 Part A Resin

Version 1

Revision Date 11/14/2017

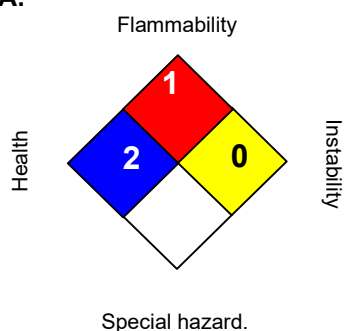
Print Date 11/14/2017

Section 5

Not applicable

DSL

: We certify that all of the components of this product are listed on the DSL.

SECTION 16. OTHER INFORMATION
Further information
NFPA:

HMIS III:

HEALTH	2*
FLAMMABILITY	1
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,
 2 = Moderate, 3 = High
 4 = Extreme, * = Chronic

Revision Date : 11/14/2017

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

CONAPOXY® FR-1830 Part B Hardener

Version 1

Revision Date 11/16/2017

Print Date 11/16/2017

SECTION 1. IDENTIFICATION

Product name : CONAPOXY® FR-1830 Part B Hardener

Manufacturer or supplier's details

Company : ELANTAS PDG, INC.
5200 North 2nd Street
St. Louis MO 63147

Telephone : (314) 621-5700

Visit our web site : www.elantas.com

E-mail address : Todd.Thomas@altana.com

Emergency telephone number : INFOTRAC - 1-800-535-5053

Recommended use of the chemical and restrictions on use

Recommended use : Electrical Insulation

Restrictions on use : Refer to Section 15 for any restrictions that may apply

SECTION 2. HAZARDS IDENTIFICATION**GHS Classification**

Acute toxicity (Dermal) : Category 4

Skin corrosion : Category 1B

Serious eye damage : Category 1

Skin sensitisation : Category 1

Reproductive toxicity : Category 2

GHS label elements

Hazard pictograms :



Signal word : Danger

Hazard statements : H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H361 Suspected of damaging fertility or the unborn child.

Precautionary statements : **Prevention:**
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read

CONAPOXY® FR-1830 Part B Hardener

Version 1

Revision Date 11/16/2017

Print Date 11/16/2017

and understood.

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash skin thoroughly after handling.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.

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.

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

P363 Wash contaminated clothing before reuse.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : Alkylphenol / Amine Blend

Hazardous components

Component	CAS-No.	Concentration (%)
Nonylphenol	84852-15-3	>= 32 - < 33
Ethyleneamine	140-31-8	>= 26 - < 27
Amino Ether	-	>= 14 - < 15
Cycloaliphatic Amine	-	>= 12 - < 13
Polyoxypropyleneamine	9046-10-0	>= 10 - < 11
Phenol, dinonyl-	1323-65-5	>= 1 - < 2

CONAPOXY® FR-1830 Part B Hardener

Version 1

Revision Date 11/16/2017

Print Date 11/16/2017

Phenol, 2-nonyl-, branched

91672-41-2

≥ 0.1 - < 1

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.
- In case of skin contact : Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.
Take victim immediately to hospital.
If on skin, rinse well with water.
If on clothes, remove clothes.
Speed in removing phenol and/or methyl phenol from the affected area is of primary importance.
Apply polyethylene glycol (PEG) to the affected area and rinse with large amounts of water. Repeat application of PEG and Washing of affected area until burning and odor are gone.
If PEG is not available, wash with large amounts of soap and water.
Do not use alcohol-based products to wash affected area. Alcohol will adversely promote absorption of phenol and/or methyl phenol into skin.
- In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.
In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
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.
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 : Phenol poisoning can occur via the lungs and skin, or by swallowing.
Acute overexposure to phenol causes collapse, convulsions,

CONAPOXY® FR-1830 Part B Hardener

Version 1

Revision Date 11/16/2017

Print Date 11/16/2017

cyanosis (blue discoloration of lips or skin) and coma.
 Symptoms may be delayed up to several hours.
 Widespread skin contact can result in rapid onset of symptoms and death.

SECTION 5. FIREFIGHTING MEASURES

- 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.
- 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 : Use personal protective equipment.
- Environmental precautions : 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/dust.
 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.
 To avoid spills during handling keep bottle on a metal tray.
 Dispose of rinse water in accordance with local and national regulations.
 Persons susceptible to skin sensitisation problems or asthma,

CONAPOXY® FR-1830 Part B Hardener

Version 1

Revision Date 11/16/2017

Print Date 11/16/2017

allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Conditions for safe storage : Store under conditions specified on the product Technical Data Sheet to maintain product quality.
 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.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Engineering measures : Use with adequate ventilation.
 All application areas should be ventilated in accordance with applicable OSHA regulations. (29 CFR 1910.94)

Personal protective equipment

Respiratory protection : In the case of vapour formation use a 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
 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 : liquid

Odour Threshold : No data available

CONAPOXY® FR-1830 Part B Hardener

Version 1

Revision Date 11/16/2017

Print Date 11/16/2017

pH	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Vapour pressure	:	No data available
Flash point	:	> 201 °F (> 94 °C) Method: No information available. Information taken from reference works and the literature.
Upper explosion limit	:	No data available
Lower explosion limit	:	No data available
Evaporation rate	:	No data available
Flammability (solid, gas)	:	No data available
Relative vapour density	:	No data available
Relative Density/Specific Gravity	:	No data available
Density	:	0.984 g/cm ³ (77 °F (25 °C))
Solubility(ies)		
Water solubility	:	No data available
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Auto-ignition temperature	:	No data available
Thermal decomposition	:	No data available
Viscosity		
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	> 22 mm ² /s (104 °F (40 °C))

SECTION 10. STABILITY AND REACTIVITY

CONAPOXY® FR-1830 Part B Hardener

Version 1

Revision Date 11/16/2017

Print Date 11/16/2017

Reactivity	: No decomposition if stored and applied as directed.
Chemical stability	: No decomposition if stored and applied as directed.
Possibility of hazardous reactions	: No decomposition if stored and applied as directed.
Conditions to avoid	: No data available
Hazardous decomposition products	: Carbon monoxide in a fire. Nitrogen oxides in a fire. Ammonia when heated.

SECTION 11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure****Acute toxicity****Product:**

Acute oral toxicity	: Acute toxicity estimate : 3,087 mg/kg Method: Calculation method
Acute dermal toxicity	: Acute toxicity estimate : 1,133 mg/kg Method: Calculation method

Components:**84852-15-3 Nonylphenol:**

Acute oral toxicity	: LD50 (Rat): 1,882 mg/kg
Acute dermal toxicity	: LD50 (Rabbit): 3,160 mg/kg

140-31-8 Ethyleneamine:

Acute oral toxicity	: LD50 (Rat, male): 2,097 mg/kg
Acute dermal toxicity	: LD50 (Rabbit, male): 866 mg/kg

9046-10-0 Polyoxypropyleneamine:

Acute oral toxicity	: LD50 (Rat): 1,100 mg/kg
Acute dermal toxicity	: LD50 (Rabbit): 1,560 mg/kg

Skin corrosion/irritation**Product:**

Remarks: Extremely corrosive and destructive to tissue.

Components:**84852-15-3 Nonylphenol:**

CONAPOXY® FR-1830 Part B Hardener

Version 1

Revision Date 11/16/2017

Print Date 11/16/2017

Result: Corrosive

140-31-8 Ethyleneamine:

Species: Rabbit

Result: Corrosive

9046-10-0 Polyoxypropyleneamine:

Species: Rabbit

Method: Draize Test

Result: Corrosive

Serious eye damage/eye irritation**Product:**

Remarks: May cause irreversible eye damage.

Components:**84852-15-3 Nonylphenol:**

Result: Severe eye irritation

140-31-8 Ethyleneamine:

Species: Rabbit

Result: Risk of serious damage to eyes.

9046-10-0 Polyoxypropyleneamine:

Species: Rabbit

Result: Severe eye irritation

Method: Draize Test

Respiratory or skin sensitisation**Product:**

Remarks: Causes sensitisation.

Components:**140-31-8 Ethyleneamine:**

Test Type: Maximisation Test

Exposure routes: Dermal

Species: Guinea pig

Method: OECD Test Guideline 406

Result: May cause sensitisation by skin contact.

9046-10-0 Polyoxypropyleneamine:

Test Type: Buehler Test

Species: Guinea pig

Result: Did not cause sensitisation on laboratory animals.

CONAPOXY® FR-1830 Part B Hardener

Version 1

Revision Date 11/16/2017

Print Date 11/16/2017

Germ cell mutagenicity**Components:****84852-15-3 Nonylphenol:**

Genotoxicity in vitro : Test Type: Ames test
Result: negative

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 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.

Further information**Product:**

Remarks: No data available

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity****Components:****140-31-8 Ethyleneamine:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 2,190 mg/l
Exposure time: 96 h
Test Type: static test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 58 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
GLP: yes

Toxicity to algae : ErC50 (Selenastrum capricornutum (green algae)): > 1,000 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
GLP: yes

CONAPOXY® FR-1830 Part B Hardener

Version 1

Revision Date 11/16/2017

Print Date 11/16/2017

9046-10-0 Polyoxypropyleneamine:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): lower 220 mg/l
Exposure time: 96 h
Remarks: Information given is based on data obtained from similar substances.

LC50 (Leuciscus idus (Golden orfe)): upper 460 mg/l
Exposure time: 96 h
Remarks: Information given is based on data obtained from similar substances.

Persistence and degradability**Components:****140-31-8 Ethyleneamine:**

Biodegradability : Result: Not readily biodegradable.
Method: OECD Test Guideline 301F
GLP: yes

Bioaccumulative potential**Components:****140-31-8 Ethyleneamine:**

Partition coefficient: n-octanol/water : log Pow: -1.48 (20 °C)

Mobility in soil**Components:****140-31-8 Ethyleneamine:**

Distribution among environmental compartments : Medium: Soil
Koc: 37000

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

CONAPOXY® FR-1830 Part B Hardener

Version 1

Revision Date 11/16/2017

Print Date 11/16/2017

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**

EPA Hazardous Waste Code(s) : none

Waste from residues : Do not dispose of waste into sewer.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.**SECTION 14. TRANSPORT INFORMATION****International Regulations****IATA-DGR**UN/ID No. : UN 1760
Proper shipping name : Corrosive liquid, n.o.s.
(Nonylphenol, Aminoethylpiperazine)
Class : 8
Packing group : III
Labels : Corrosive
Packing instruction (cargo aircraft) : 856
Packing instruction (passenger aircraft) : 852**IMDG-Code**UN number : UN 1760
Proper shipping name : CORROSIVE LIQUID, N.O.S.
(NONYLPHENOL, AMINOETHYLPIPERAZINE)
Class : 8
Packing group : III
Labels : 8
EmS Code : F-A, S-B
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 : UN 1760
Proper shipping name : Corrosive liquids, n.o.s.

CONAPOXY® FR-1830 Part B Hardener

Version 1

Revision Date 11/16/2017

Print Date 11/16/2017

(Nonylphenol, Aminoethylpiperazine)

Class	:	8
Packing group	:	III
Labels	:	Corrosive
ERG Code	:	154
Marine pollutant	:	no

SECTION 15. REGULATORY INFORMATION
EPCRA - Emergency Planning and Community Right-to-Know Act
US. EPA CERCLA Hazardous Substances (40 CFR 302)

Calculated RQ exceeds reasonably attainable upper limit.

SARA 304 - Emergency Release Notification

Calculated RQ exceeds reasonably attainable upper limit.

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A)

Calculated RQ exceeds reasonably attainable upper limit.

SARA 311/312 Hazards : Per the June 13, 2016 Federal Register notice, EPA harmonized the EPCRA 311/312 hazard categories with the 2012 OSHA hazard communication standard for classifying and labeling of chemicals (i.e. GHS). Please refer to Section 2 of the SDS to identify the appropriate hazard categories for reporting purposes.

SARA 302 : The following components are subject to reporting levels established by SARA Title III, Section 302:

Phenol	108-95-2	.2 %
--------	----------	------

SARA 313 : This product contains the following toxic chemical(s) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372.

Nonylphenol	84852-15-3	32.6 %
-------------	------------	--------

Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

CONAPOXY® FR-1830 Part B Hardener

Version 1

Revision Date 11/16/2017

Print Date 11/16/2017

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM Intermediate or Final VOC's (40 CFR 60.489).

Non-volatile (Wt) : Refer to the product technical data sheet for VOC information.

US State Regulations
Massachusetts Right To Know

Ethyleneamine	140-31-8
Phenol	108-95-2

Pennsylvania Right To Know

Nonylphenol	84852-15-3
Ethyleneamine	140-31-8
Amino Ether	-
Cycloaliphatic Amine	-
Polyoxypropyleneamine	9046-10-0
Phenol	108-95-2

New Jersey Right To Know

Nonylphenol	84852-15-3
Ethyleneamine	140-31-8
Amino Ether	-
Cycloaliphatic Amine	-
Polyoxypropyleneamine	9046-10-0
Phenol	108-95-2

New Jersey Trade Secret Registry Number for the product (NJ TSRN) : Not Applicable

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 : We certify that all of the components of this product are either listed on the TSCA Inventory or are not subject to the notification requirements per 40 CFR 720 30(h).

: Section 4 / 12(b): Nonylphenol (84852-15-3)

Section 5 : Not applicable

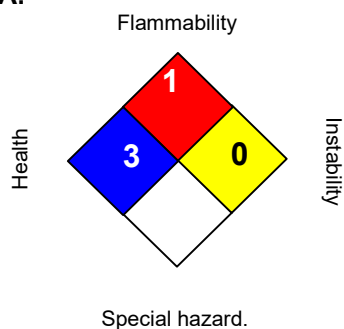
DSL : We certify that all of the components of this product are listed on the DSL.

CONAPOXY® FR-1830 Part B Hardener

Version 1

Revision Date 11/16/2017

Print Date 11/16/2017

SECTION 16. OTHER INFORMATION
Further information
NFPA:

HMIS III:

HEALTH	3*
FLAMMABILITY	1
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,
 2 = Moderate, 3 = High
 4 = Extreme, * = Chronic

Revision Date : 11/16/2017

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.