

Revision Number 1.1 Revision Date 08-Nov-2017

**Section 1: IDENTIFICATION** 

**Product identifier** 

Product Name CONAPOXY ® FR-1820 Part B Hardener

Other means of identification

Product Code(s) 0036004

Recommended use of the chemical and restrictions on use

Recommended Use Potting and encapsulating

Details of the supplier of the safety data sheet

**Manufacturer Address** 

ELANTAS PDG, INC. 1405 Buffalo Street Olean, New York 14760

Emergency telephone number

Company Phone Number (716) 372-9650

E-mail address Ross.Roberson@altana.com

Emergency Telephone INFOTRAC - 1-800-535-5053

## **Section 2: HAZARDS IDENTIFICATION**

#### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Oral	Category 4
Acute toxicity - Dermal	Category 4
Skin corrosion/irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1
Skin sensitization	Category 1
Reproductive toxicity	Category 1B

### Hazards not otherwise classified (HNOC)

Not applicable

#### Label elements

#### Danger

### Hazard statements

Harmful if swallowed Harmful in contact with skin

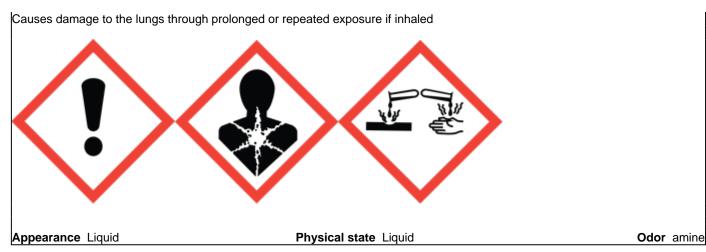
Causes severe skin burns and eye damage

May cause an allergic skin reaction



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### **Precautionary Statements - Prevention**

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Do not breathe dust/fume/gas/mist/vapors/spray

Contaminated work clothing should not be allowed out of the workplace

Wear protective gloves

#### **Precautionary Statements - Response**

Immediately call a POISON CENTER or doctor/physician

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 or doctor/physician

Call a POISON CENTER or doctor/physician if you feel unwell

Wash contaminated clothing before reuse

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

If skin irritation or rash occurs: Get medical advice/attention

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Immediately call a POISON CENTER or doctor/physician

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

Do NOT induce vomiting

### **Precautionary Statements - Storage**

Store locked up

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

#### Other Information

Not applicable

## **Section 3: COMPOSITION/INFORMATION ON INGREDIENTS**

### Substance

Not applicable.



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#### Mixture

Chemical nature Mixture.

Chemical name	CAS No.	Weight-%	Trade secret
4-Nonyl-phenol, (branched)	84852-15-3	50 - 60	*
Aminoethylpiperazine	140-31-8	30 - 40	*
4,4'-isopropylidenediphenol	80-05-7	1 - 5	*
Diethylenetriamine	111-40-0	0.1 - 1	*
2-(2-aminoethylamino)ethanol	111-41-1	0.1 - 1	*

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret.

## **Section 4: FIRST AID MEASURES**

**Description of first aid measures** 

**Inhalation** Remove to fresh air.

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

**Skin contact** Wash skin with soap and water.

**Ingestion** Clean mouth with water and drink afterwards plenty of water.

Most important symptoms and effects, both acute and delayed

**Symptoms** No information available.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

### **Section 5: FIRE-FIGHTING MEASURES**

surrounding environment.

Unsuitable extinguishing media CAUTION: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the

chemical

No information available.

Hazardous combustion products Carbon monoxide. Nitrogen oxides (NOx).

**Explosion data** 

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

Special protective equipment for

fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout

gear. Use personal protection equipment.



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## Section 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

**Personal precautions** Ensure adequate ventilation.

Environmental precautions

**Environmental precautions** Prevent product from entering drains. Prevent further leakage or spillage if safe to do so.

Keep out of waterways. Local authorities should be advised if significant spillages cannot

be contained.

Methods and material for containment and cleaning up

Methods for containment Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste

container.

**Methods for cleaning up** Pick up and transfer to properly labeled containers.

**Reference to other sections** See section 13 for more information.

### Section 7: HANDLING AND STORAGE

### Precautions for safe handling

Advice on safe handling Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes.

Contents under pressure. Do not eat, drink or smoke when using this product. Ensure adequate ventilation. See section 8 for more information. Take precautionary measures against static discharges. S53 - Avoid exposure - obtain special instructions before use.

Dispose of in accordance with local regulations.

#### Conditions for safe storage, including any incompatibilities

Storage Conditions Observe technical data sheet. P210 - Keep away from heat. - No smoking. Keep container

tightly closed in a dry and well-ventilated place. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Observe all label precautions until

container is cleaned, reconditioned or destroyed.

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

## **Control parameters**

**Exposure Limits** The following ingredients are the only ingredients of the product above the cut-off level (or

level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other recommended limit. At this time, the other relevant constituents have no known exposure

limits from the sources listed here.

Chemical name	ACGIH TLV		AIHA - Workplace Environmental Exposure Levels (WEELs) - TWAs
Diethylenetriamine 111-40-0	TWA: 1 ppm S*	(vacated) TWA: 1 ppm (vacated) TWA: 4 mg/m <sup>3</sup>	
2-(2-aminoethylamino)ethanol 111-41-1	No data available	(vacated) TWA: 0.1 mg/m <sup>3</sup> Formaldehyde	



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Other Information Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962

(11th Cir., 1992).

**Appropriate engineering controls** 

**Engineering controls**Apply technical measures to comply with the occupational exposure limits. Ensure

adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

**Eye/face protection** Face protection shield. Tight sealing safety goggles.

Hand protection Impervious gloves.

**Skin and body protection** Impervious clothing. Wear suitable protective clothing.

**Respiratory protection** Use appropriate respiratory protection.

Environmental exposure controls Local authorities should be advised if significant spillages cannot be contained.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

## **Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

None known

Information on basic physical and chemical properties

Physical state Liquid
Appearance Liquid
Color amber
Odor amine

Odor threshold No information available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

pН No data available None known None known No data available Melting point / freezing point Boiling point / boiling range None known > 100 °C / 212 °F Flash point CC (closed cup) **Evaporation rate** No data available None known No data available None known

Flammability (solid, gas)

Flammability Limit in Air

Upper flammability limit:

No data available

Lower flammability limit:

No data available

Vapor pressure

No data available

Vapor pressureNo data availableNone knownVapor densityNo data availableNone known

Relative density 0.954

No data available Water solubility None known Solubility in other solvents No data available None known Partition coefficient No data available None known **Autoignition temperature** No data available None known No data available **Decomposition temperature** None known No data available Kinematic viscosity None known **Dynamic viscosity** No data available None known

Explosive properties No information available Oxidizing properties No information available

Other Information

Softening point No information available



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Molecular weightNo information availableVOC Content (%)No information availableLiquid DensityNo information availableBulk densityNo information available

## **Section 10: STABILITY AND REACTIVITY**

**Reactivity** No information available.

Chemical stability Stable under normal conditions.

Possibility of hazardous reactions None under normal processing.

Conditions to avoid Heat, flames and sparks.

**Incompatible materials** Epoxides, acrylates, strong oxidizers, acids, aldehydes, acetones, organic halides.

Hazardous decomposition products Carbon oxides. Nitrogen oxides (NOx). Ammonia.

## **Section 11: TOXICOLOGICAL INFORMATION**

#### Information on likely routes of exposure

#### **Product Information**

**Inhalation** Specific test data for the substance or mixture is not available.

**Eye contact** Specific test data for the substance or mixture is not available.

**Skin contact** Specific test data for the substance or mixture is not available.

**Ingestion** Specific test data for the substance or mixture is not available.

Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** No information available.

Numerical measures of toxicity

**Acute toxicity** 

The following values are calculated based on chapter 3.1 of the GHS document .

 ATEmix (oral)
 850.00 mg/kg

 ATEmix (dermal)
 1,588.00 mg/kg

Unknown acute toxicity No information available

**Component Information** 

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
4-Nonyl-phenol, (branched) 84852-15-3	= 1300 mg/kg (Rat)	= 2000 mg/kg ( Rabbit )	-
Aminoethylpiperazine 140-31-8	= 2140 μL/kg(Rat)	= 880 μL/kg(Rabbit)	-
4,4'-isopropylidenediphenol 80-05-7	= 3300 mg/kg (Rat)	= 3 mL/kg(Rabbit)	> 0.17 mg/L (Rat)6 h
Diethylenetriamine 111-40-0	= 1080 mg/kg(Rat)	= 672 mg/kg ( Rabbit )	= 70 mg/L(Rat)4 h



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2-(2-aminoethylamino)ethanol	= 2000 mg/kg (Rat)	= 3560 μL/kg (Rabbit)	-
111-41-1			

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Skin corrosion/irritation**No information available.

**Serious eye damage/eye irritation** No information available.

**Respiratory or skin sensitization** No information available.

Germ cell mutagenicity No information available.

**Carcinogenicity** No information available.

**Reproductive toxicity** No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

Target organ effects No information available.

Subchronic toxicity Not applicable.

Neurological effects None known.

Other adverse effects No information available.

**Aspiration hazard** No information available.

## **Section 12: ECOLOGICAL INFORMATION**

**Ecotoxicity** No information available.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
4-Nonyl-phenol, (branched) 84852-15-3	0.36 - 0.48: 96 h Pseudokirchneriella subcapitata mg/L EC50 static 1.3: 72 h Desmodesmus subspicatus mg/L EC50 0.16 - 0.72: 72 h Pseudokirchneriella subcapitata mg/L EC50 static	0.1351: 96 h Lepomis macrochirus mg/L LC50 flow-through 0.135: 96 h Pimephales promelas mg/L LC50 flow-through	-	0.14: 48 h Daphnia magna mg/L EC50
Aminoethylpiperazine 140-31-8	495: 72 h Pseudokirchneriella subcapitata mg/L EC50	1950 - 2460: 96 h Pimephales promelas mg/L LC50 flow-through 1000: 96 h Poecilia reticulata mg/L LC50 semi-static 100: 96 h Oncorhynchus mykiss mg/L LC50 semi-static	-	32: 48 h Daphnia magna mg/L EC50
4,4'-isopropylidenediphen ol	2.5: 96 h Pseudokirchneriella	4.0 - 5.5: 96 h Pimephales promelas	-	9.2 - 11.4: 48 h Daphnia magna mg/L EC50 Static



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80-05-7	subcapitata mg/L EC50	mg/L LC50 static 3.6 -		10.2: 48 h Daphnia
		5.4: 96 h Pimephales		magna mg/L EC50 3.9:
		promelas mg/L LC50		48 h Daphnia magna
		flow-through 4: 96 h		mg/L EC50
		Oncorhynchus mykiss		
		mg/L LC50 9.9: 96 h		
		Brachydanio rerio mg/L		
		LC50 static		
Diethylenetriamine	345.6: 96 h	1014: 96 h Poecilia	-	37: 24 h Daphnia magna
111-40-0	Pseudokirchneriella	reticulata mg/L LC50		mg/L EC50 16: 48 h
	subcapitata mg/L EC50	semi-static 248: 96 h		Daphnia magna mg/L
	592: 96 h Desmodesmus	Poecilia reticulata mg/L		EC50
	subspicatus mg/L EC50	LC50 static 430: 96 h		
	1164: 72 h	Leuciscus idus mg/L		
	Pseudokirchneriella	LC50 semi-static		
	subcapitata mg/L EC50			
2-(2-aminoethylamino)eth	210: 72 h Desmodesmus	728: 96 h Pimephales	-	22: 48 h Daphnia magna
anol	subspicatus mg/L EC50	promelas mg/L LC50		mg/L EC50
111-41-1				

Persistence and degradability No information available.

**Bioaccumulation** There is no data for this product.

Bioconcentration factor (BCF) No data available

**Component Information** 

<del>Component micrimation</del>	
Chemical name	Partition coefficient
Aminoethylpiperazine	-1.48
140-31-8	
4,4'-isopropylidenediphenol 80-05-7	2.2
Diethylenetriamine 111-40-0	-1.3
2-(2-aminoethylamino)ethanol 111-41-1	-1.46

Mobility No information available.

Other adverse effects No information available.

## **Section 13: DISPOSAL CONSIDERATIONS**

Waste treatment methods

Waste from residues/unused products

Should not be released into the environment. Dispose of in accordance with local

regulations.

Contaminated packaging Do not reuse empty containers. Empty containers should be taken to an approved waste

handling site for recycling or disposal. Empty remaining contents.

US EPA Waste Number Not applicable.

California Hazardous Waste Status This product contains one or more substances that are listed with the State of California as

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#### a hazardous waste.

Chemical name	California Hazardous Waste Status
Diethylenetriamine	Toxic
111-40-0	

## **Section 14: TRANSPORT INFORMATION**

DOT

**UN/ID no.** UN1760

Proper shipping name Corrosive liquid, n.o.s. [4-Nonyl-phenol, Aminoethylpiperazine]

Hazard Class 8
Packing Group ||

<u>IATA</u>

**UN/ID no.** UN1760

Proper shipping name Corrosive liquid, n.o.s. [4-Nonyl-phenol, Aminoethylpiperazine]

Hazard Class 8
Packing Group ||

**IMDG** 

**UN/ID no.** UN1760

Proper shipping name Corrosive liquid, n.o.s. [4-Nonyl-phenol, Aminoethylpiperazine]

Hazard Class 8
Packing Group ||

### Section 15: REGULATORY INFORMATION

International Inventories

TSCA Complies DSL/NDSL Complies

### **US Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

#### SARA 311/312 Hazard Categories

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 chemicals (i.e. GHS). Please refer to Section 2 of the SDS to identify the appropriate hazard categories for reporting purposes.

#### **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.



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### **US State Regulations**

## **California Proposition 65**

This product contains the following Proposition 65 chemicals.

Chemical name	California Proposition 65
4,4'-isopropylidenediphenol - 80-05-7	Female Reproductive

#### **U.S. State Right-to-Know Regulations**

#### **US State Regulations**

Chemical name	New Jersey	Massachusetts	Pennsylvania
Aminoethylpiperazine 140-31-8	X	X	X
4,4'-isopropylidenediphenol 80-05-7	Х	X	X
Benzyl alcohol 100-51-6	-	X	Х
Benzyl dimethylamine 103-83-3	X	-	-
Diethylenetriamine 111-40-0	Х	Х	Х
2-(2-aminoethylamino)ethanol 111-41-1	Х	X	Х

#### U.S. EPA Label Information

Section 16: OTHER INFORMATION
JECTION 10. OTHER INFORMATION

NFPA Health hazards 3 Flammability 1 Instability 0 HMIS

Chronic Hazard Star Legend \*= Chronic Health Hazard

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#### **Revision Note**

#### **Disclaimer**

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.

**End of Safety Data Sheet**