

Revision Number 1.3

Revision Date 15-Aug-2017

**Section 1: IDENTIFICATION****Product identifier****Product Name** CONACURE® EA-028 Hardener**Other means of identification****Product Code(s)** 0008101**Synonyms** Curing agent**Recommended use of the chemical and restrictions on use****Recommended Use** Bonding agent**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)

Serious eye damage/eye irritation	Category 1
Skin sensitization	Category 1B

**Hazards not otherwise classified (HNOC)**

Not applicable

**Label elements****Danger****Hazard statements**

Causes serious eye damage

May cause an allergic skin reaction

Revision Date 15-Aug-2017

Revision Number 1.3



**Appearance** Low viscosity liquid

**Physical state** Liquid

**Odor** Slight amine

### Precautionary Statements - Prevention

Wear protective gloves/protective clothing/eye protection/face protection  
Avoid breathing dust/fume/gas/mist/vapors/spray  
Contaminated work clothing should not be allowed out of the workplace

### Precautionary Statements - Response

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  
IF ON SKIN: Wash with plenty of soap and water  
If skin irritation or rash occurs: Get medical advice/attention  
Wash contaminated clothing before reuse

### Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

### Other Information

May be harmful if swallowed  
May be harmful in contact with skin

## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

### Substance

Not applicable.

### Mixture

### Synonyms

Curing agent.

### Chemical nature

Mixture.

Chemical name	CAS No.	Weight-%	Trade secret
3,3'-oxybis(ethyleneoxy)bis(propylamine)	4246-51-9	60 - 100	*
2-[2-(3-aminopropoxy)ethoxy]ethanol	112-33-4	1 - 5	*

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

Revision Date 15-Aug-2017

Revision Number 1.3

**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**

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the 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.

**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.
-------------------------	--

Revision Date 15-Aug-2017

Revision Number 1.3

**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.

**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.

Revision Date 15-Aug-2017

Revision Number 1.3

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Physical state	Liquid
Appearance	Low viscosity liquid
Color	clear
Odor	Slight amine
Odor threshold	No information available

Property	Values	Remarks • Method
pH	No data available	None known
Melting point / freezing point	= -32 °C / -26 °F	
Boiling point / boiling range	= 181 °C / 358 °F	
Flash point	= 166 °C / 331 °F	
Evaporation rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air		None known
Upper flammability limit:	No data available	
Lower flammability limit:	No data available	
Vapor pressure	<0.001 mmHg @25°C Negligible	
Vapor density	7.6	
Relative density	1.002	
Water solubility	Soluble in water	
Solubility in other solvents	No data available	None known
Partition coefficient	No data available	None known
Autoignition temperature	260 °C / 500 °F	
Decomposition temperature	>250°C	
Kinematic viscosity	No data available	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
Molecular weight	No information available
VOC Content (%)	No information available
Liquid Density	No information available
Bulk density	No 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	Strong acids. Mineral acids.
Hazardous decomposition products	Carbon oxides. Nitrogen oxides (NOx).

## Section 11: TOXICOLOGICAL INFORMATION

Revision Date 15-Aug-2017

Revision Number 1.3

## 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)	4,292.00 mg/kg
ATEmix (dermal)	2,507.10 mg/kg

**Unknown acute toxicity** No information available

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
3,3'-oxybis(ethyleneoxy)bis(propylamine) 4246-51-9	= 4290 µL/kg ( Rat ) = 4290 mg/kg ( Rat )	= 2500 µL/kg ( Rabbit )	-
2-[2-(3-aminopropoxy)ethoxy]ethanol 112-33-4	= 6500 mg/kg ( Rat )	= 5990 µL/kg ( Rabbit )	-

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

<b>Skin corrosion/irritation</b>	No information available.
<b>Serious eye damage/eye irritation</b>	No information available.
<b>Respiratory or skin sensitization</b>	No information available.
<b>Germ cell mutagenicity</b>	No information available.
<b>Carcinogenicity</b>	No information available.
<b>Reproductive toxicity</b>	No information available.
<b>STOT - single exposure</b>	No information available.
<b>STOT - repeated exposure</b>	No information available.
<b>Target organ effects</b>	No information available.
<b>Subchronic toxicity</b>	Not applicable.
<b>Neurological effects</b>	None known.

Revision Date 15-Aug-2017

Revision Number 1.3

**Other adverse effects** No information available.**Aspiration hazard** No information available.**Section 12: ECOLOGICAL INFORMATION****Ecotoxicity** No information available.**Persistence and degradability** No information available.**Bioaccumulation** There is no data for this product.**Bioconcentration factor (BCF)** No data available**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.**Section 14: TRANSPORT INFORMATION****DOT**

<b>UN/ID no.</b>	UN2735
<b>Proper shipping name</b>	AMINES, LIQUID, CORROSIVE, N.O.S. [Contains 3,3'-oxybis(ethyleneoxy)bis(propylamine)]
<b>Hazard Class</b>	8
<b>Packing Group</b>	II

**IATA**

<b>UN/ID no.</b>	UN2735
<b>Proper shipping name</b>	AMINES, LIQUID, CORROSIVE, N.O.S. [Contains 3,3'-oxybis(ethyleneoxy)bis(propylamine)]
<b>Hazard Class</b>	8
<b>Packing Group</b>	II

**IMDG**

Revision Date 15-Aug-2017

Revision Number 1.3

UN/ID no.	UN2735
Proper shipping name	AMINES, LIQUID, CORROSIVE, N.O.S. [Contains 3,3'-oxybis(ethyleneoxy)bis(propylamine)]
Hazard Class	8
Packing Group	II

**Section 15: REGULATORY INFORMATION****International Inventories**

TSCA	Complies
DSL/NDL	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.

**US State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals.

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

**US State Regulations** This product does not contain any substances regulated by state right-to-know regulations

**U.S. EPA Label Information****Section 16: OTHER INFORMATION**

<b><u>NFPA</u></b>	<b>Health hazards</b> 3	<b>Flammability</b> 1	<b>Instability</b> 0	<b><u>HMIS</u></b>
--------------------	-------------------------	-----------------------	----------------------	--------------------

**Revision Date** 15-Aug-2017

**Revision Note** SDS sections updated. 1.



Revision Date 15-Aug-2017

Revision Number 1.3

---

**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**