		C	ELANTA	
CONACURE® EA-87 Hardener				
/ersion 2		Revision Date 08/16/2022	Print Date 08/16/202	
ECTION 1. IDENTIFICATION				
Product name	:	CONACURE® EA-87 Hardener		
Manufacturer or supplier's o	deta	ails		
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 c	hen	nical and restrictions on use		
Recommended use	:	Curing Agent		
Restrictions on use	:	This product is for industrial use only. consumer use or retail sale. Refer to Section 15 for any restrictions		
ECTION 2. HAZARDS IDENTIFI	CA	ΓΙΟΝ		
	CAT	ΓΙΟΝ		
ECTION 2. HAZARDS IDENTIFI GHS Classification Skin corrosion	CA 1	Category 1B		
GHS Classification Skin corrosion	:	Category 1B		
GHS Classification Skin corrosion Serious eye damage	:	Category 1B Category 1		
GHS Classification Skin corrosion Serious eye damage Skin sensitisation	:	Category 1B Category 1 Category 1		
GHS Classification Skin corrosion Serious eye damage	:	Category 1B Category 1		
Skin corrosion Serious eye damage Skin sensitisation	:	Category 1B Category 1 Category 1		
GHS Classification Skin corrosion Serious eye damage Skin sensitisation Reproductive toxicity	: : : :	Category 1B Category 1 Category 1		
 GHS Classification Skin corrosion Serious eye damage Skin sensitisation Reproductive toxicity Effects on or via lactation Specific target organ toxicity repeated exposure 	: : : :	Category 1B Category 1 Category 1 Category 1B		
GHS Classification Skin corrosion Serious eye damage Skin sensitisation Reproductive toxicity Effects on or via lactation Specific target organ toxicity - repeated exposure (Inhalation)	: : : :	Category 1B Category 1 Category 1 Category 1B		
 GHS Classification Skin corrosion Serious eye damage Skin sensitisation Reproductive toxicity Effects on or via lactation Specific target organ toxicity - repeated exposure (Inhalation) GHS label elements 	: : : :	Category 1B Category 1 Category 1 Category 1B		

1/14

C ELANTAS

Precautionary statements : Pre P20 P20 P20 P20 P20 P20 P20 P20 P20 P20	60 May damage fertility or the ur 62 May cause harm to breast-fee 72 Causes damage to organs (R clonged or repeated exposure if in evention: 01 Obtain special instructions be 02 Do not handle until all safety p d understood. 60 Do not breathe dust/ fume/ ga 63 Avoid contact during pregnan 64 Wash skin thoroughly after ha 70 Do not eat, drink or smoke wh 72 Contaminated work clothing s e workplace. 80 Wear protective gloves/ prote e protection. sponse: 01 + P330 + P331 IF SWALLOW uce vomiting. 03 + P361 + P353 IF ON SKIN (of contaminated clothing. Rinse ski 04 + P340 + P310 IF INHALED: d keep comfortable for breathing. NTER/ doctor. 05 + P351 + P338 + P310 IF IN ter for several minutes. Remove d easy to do. Continue rinsing. In NTER/ doctor. 08 + P313 IF exposed or concern ention. 33 + P313 If skin irritation or rash ention.	d children. Respiratory Tract) through nhaled.
P20 P20 P20 P20 P20 P20 P20 P20 P20 P20	01 Obtain special instructions be 02 Do not handle until all safety p d understood. 60 Do not breathe dust/ fume/ ga 63 Avoid contact during pregnan 64 Wash skin thoroughly after ha 70 Do not eat, drink or smoke wh 72 Contaminated work clothing s workplace. 80 Wear protective gloves/ prote te protection. sponse: 01 + P330 + P331 IF SWALLOW uce vomiting. 03 + P361 + P353 IF ON SKIN (of contaminated clothing. Rinse ski 04 + P340 + P310 IF INHALED: d keep comfortable for breathing. INTER/ doctor. 05 + P351 + P338 + P310 IF IN I ter for several minutes. Remove d easy to do. Continue rinsing. In INTER/ doctor. 08 + P313 IF exposed or concernention. 33 + P313 If skin irritation or rash	precautions have been read as/ mist/ vapours/ spray. cy/ while nursing. andling. hen using this product. should not be allowed out of ctive clothing/ eye protection/ /ED: Rinse mouth. Do NOT or hair): Take off immediately in with water/ shower. Remove person to fresh air . Immediately call a POISON EYES: Rinse cautiously with contact lenses, if present nmediately call a POISON
	63 Wash contaminated clothing b brage: 05 Store locked up. sposal: 01 Dispose of contents/ containe posal plant.	n occurs: Get medical advice/ before reuse.
Other hazards None known.		
CTION 3. COMPOSITION/INFORMATI	ON ON INGREDIENTS	
Chemical nature : Mo	dified Aliphatic Amine	
Hazardous components		



sion 2	Revision D	ate 08/16/2022	Print Date 08/16/2	
Component		CAS-No.	Concentration (%)	
Polyoxypropyleneamine		9046-10-0	>= 30 - < 60	
Nonylphenol		84852-15-3	>= 10 - < 30	
Ethyleneamine		140-31-8	>= 10 - < 30	
Triethylenetetramine		112-24-3	>= 0.1 - < 1	
Diethylenetriamine		111-40-0	>= 0.1 - < 1	
2-(2-Aminoethylamino)ethanol		111-41-1	>= 0.1 - < 1	
TION 4. FIRST AID MEASURI	ES			
General advice	Consult a ph Show this sa	dangerous area. hysician. afety data sheet to the c e the victim unattended.		
If inhaled	advice.	 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. If on skin, rinse well with water. If on clothes, remove clothes. 			
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 plent 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	Do NOT ind Do not give Never give a If symptoms	atory tract clear. uce vomiting. milk or alcoholic bevera anything by mouth to an persist, call a physiciar immediately to hospital.	unconscious person. n.	
TION 5. FIREFIGHTING MEAS	SURES			
Unsuitable extinguishing media	: High volume	e water jet		

C ELANTAS



rsion 2		Revision Date 08/16/2022	Print Date 08/16/20
Specific hazards during firefighting	:	Do not allow run-off from fire fighting courses.	g to enter drains or water
Further information	:	Collect contaminated fire extinguish must not be discharged into drains. Fire residues and contaminated fire be disposed of in accordance with le	extinguishing water must
Special protective equipment for firefighters	:	Wear self-contained breathing appa necessary.	aratus for firefighting if
CTION 6. ACCIDENTAL RELEA	ASE	EMEASURES	
Personal precautions, protective equipment and emergency procedures	:	Use personal protective equipment.	
Environmental precautions	:	Prevent product from entering drain Prevent further leakage or spillage i If the product contaminates rivers a respective authorities.	if safe to do so.
Methods and materials for containment and cleaning up	:	Soak up with inert absorbent materi acid binder, universal binder, sawdu Keep in suitable, closed containers	ust).
CTION 7. HANDLING AND STO	DR/	AGE	
Advice on safe handling	:	Do not breathe vapours/dust. Avoid exposure - obtain special inst	ructions before use.
		Avoid contact with skin and eyes. For personal protection see section Smoking, eating and drinking should application area. To avoid spills during handling keep Dispose of rinse water in accordance regulations. Persons susceptible to skin sensitis allergies, chronic or recurrent respir be employed in any process in which used.	d be prohibited in the b bottle on a metal tray. ce with local and national ation problems or asthma, ratory disease should not



Version 2

Revision Date 08/16/2022

Print Date 08/16/2022

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Triethylenetetramine	112-24-3	TWA	1 ppm	US WEEL
Diethylenetriamine	111-40-0	TWA	1 ppm	ACGIH
Diethylenetriamine		TWA	1 ppm 4 mg/m3	OSHA P0

Hazardous components without workplace control parameters

nazaradad compendinte ma	
Engineering measures	: Use with adequate ventilation. All application areas should be ventilated in accordance with applicable OSHA regulations. (e.g. 29 CFR 1910.94)
Personal protective equip	ment
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.
CTION 9. PHYSICAL AND CI	HEMICAL PROPERTIES
Appearance	: liquid
11	

pH : No data available

Melting point/freezing point : No data available

C ELANTAS

ersion 2		Revision Date 08/16/2022	Print Date 08/16/202
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 we	
Upper explosion limit	:	No data available	orks and the interature.
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	:	0.96 g/cm3 (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	
Ignition temperature	:	No data available	
Thermal decomposition	:	No data available	
Viscosity Viscosity, dynamic	:	No data available	
Viscosity, kinematic	:	> 21 mm2/s (104 °F (40 °C))	
CTION 10. STABILITY AND RE	AC	ΤΙVΙΤΥ	
Reactivity	:	No decomposition if stored and app	lied as directed.
e t e e e e e e e e e e			

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



sion 2	Revision Date 08/16/2022	Print Date 08/16/2
0		
Conditions to avoid	: No data available	
Hazardous decomposition products	: Carbon monoxide in a fire. Nitrogen oxides in a fire. Ammonia	
TION 11. TOXICOLOGICAL	INFORMATION	
Information on likely route	s of exposure	
Acute toxicity		
Product:		
Acute oral toxicity	: Acute toxicity estimate : 4,744 mg, Method: Calculation method	/kg
Acute dermal toxicity	: Acute toxicity estimate : 3,603 mg. Method: Calculation method	/kg
Components:		
9046-10-0 Polyoxypropyler Acute oral toxicity		
Acute dermal toxicity		
-		
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 GLP: no	
Acute dermal toxicity	: LD50 (Rabbit, male): 866 mg/kg GLP: no	
112-24-3 Triethylenetetram Acute oral toxicity	i ne: : LD50 (Rat): 2,500 mg/kg	
Acute dermal toxicity	: LD50 (Rabbit): 805 mg/kg	
111-40-0 Diethylenetriamin Acute oral toxicity	e: : LD50 (Rat): 1,080 mg/kg	
Acute inhalation toxicity	: LC50 : Remarks: No data available	e
Acute dermal toxicity	: LD50 (Rabbit): 1,050 mg/kg	



CONACURE® EA-87 Hardener

Version 2

Revision Date 08/16/2022

Print Date 08/16/2022

Skin corrosion/irritation

Product:

Remarks: Extremely corrosive and destructive to tissue.

Components:

9046-10-0 Polyoxypropyleneamine:

Species: Rabbit Method: Draize Test Result: Corrosive

84852-15-3 Nonylphenol: Result: Corrosive

140-31-8 Ethyleneamine:

Species: Rabbit Result: Corrosive

112-24-3 Triethylenetetramine:

Method: OECD Test Guideline 435 Result: Corrosive

111-40-0 Diethylenetriamine: Species: Rabbit

Result: Corrosive to skin

111-41-1 2-(2-Aminoethylamino)ethanol:

Species: Rabbit Result: Corrosive to skin

Species: Rabbit Method: OECD Test Guideline 404 Result: Corrosive GLP: yes

Serious eye damage/eye irritation

Product:

Remarks: May cause irreversible eye damage.

Components:

9046-10-0 Polyoxypropyleneamine: Species: Rabbit Result: Severe eye irritation Method: Draize Test

84852-15-3 Nonylphenol: Result: Severe eye irritation

140-31-8 Ethyleneamine: Species: Rabbit



CONACURE® EA-87 Hardener

Version 2

Revision Date 08/16/2022

Print Date 08/16/2022

Result: Risk of serious damage to eyes.

112-24-3 Triethylenetetramine:

Species: Rabbit Result: Corrosive to eyes

111-40-0 Diethylenetriamine: Species: Rabbit

Result: Corrosive to eyes

111-41-1 2-(2-Aminoethylamino)ethanol:

Species: Rabbit Result: Corrosive to eyes

Species: Rabbit Result: Corrosive Method: OECD Test Guideline 405

Respiratory or skin sensitisation

Product: Remarks: Causes sensitisation.

Components:

9046-10-0 Polyoxypropyleneamine:

Test Type: Buehler Test Species: Guinea pig Result: Did not cause sensitisation on laboratory animals.

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.

112-24-3 Triethylenetetramine:

Test Type: Buehler Test Exposure routes: Dermal Species: Guinea pig Method: OECD Test Guideline 406 Result: May cause sensitisation by skin contact. GLP: yes

111-40-0 Diethylenetriamine:

Test Type: Maximisation Test Exposure routes: Dermal Species: Guinea pig Method: OECD Test Guideline 406 Result: May cause sensitisation by skin contact. GLP: yes



rsion 2	Revision Date 08/16/2022	Print Date 08/16/20
111-41-1 2-(2-Aminoethyla Test Type: Mouse Local Lyr Exposure routes: Dermal Species: Mouse	nph Node assay (LLNA)	
Method: OECD Test Guideli Result: Causes sensitisation GLP: yes		
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 equal to 0.1% is identified as probable human carcinogen by IARC.	
OSHA	No component of this product present equal to 0.1% is on OSHA's list of regu	
NTP	No component of this product present equal to 0.1% is identified as a known by NTP.	
Further information		
Product:		
Remarks: No data available		
	FORMATION	
CTION 12. ECOLOGICAL IN		
CTION 12. ECOLOGICAL IN Ecotoxicity		
Ecotoxicity	ility	
Ecotoxicity No data available	ility	
Ecotoxicity No data available Persistence and degradab		
Ecotoxicity No data available Persistence and degradab No data available		
Ecotoxicity No data available Persistence and degradab No data available Bioaccumulative potential		
Ecotoxicity No data available Persistence and degradab No data available Bioaccumulative potential No data available		
Ecotoxicity No data available Persistence and degradab No data available Bioaccumulative potential No data available Mobility in soil		
Ecotoxicity No data available Persistence and degradab No data available Bioaccumulative potential No data available Mobility in soil No data available		



. - - - - - -

ONACURE® EA-87 H	aiueilei			
ersion 2	Revision Date 08/16/2022	Print Date 08/16/202		
Product:				
Regulation	40 CFR Protection of Environment;	Part 82 Protection of		
regulation		Stratospheric Ozone - CAA Section 602 Class I Substances		
Remarks	Class I or Class II ODS as defined b	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	No data available		
CTION 13. DISPOSAL CONSI	DERATIONS			
Disposal methods				
	: WC: C			
EPA Hazardous Waste Code(s)	: none			
Waste from residues	: Do not dispose of waste into sewer.			
	Do not contaminate ponds, waterwa	ays or ditches with		
	chemical or used container.			
	Send to a licensed waste managem	ient company.		
Contaminated packaging	: Empty remaining contents.			
	Dispose of as unused product.			
	Do not re-use empty containers.			
CTION 14. TRANSPORT INFO	ORMATION			
International Regulations				
IATA-DGR				
UN/ID No.	: UN 1760			
Proper shipping name	: Corrosive liquid, n.o.s.			
	(Nonylphenol)			
Class	: 8			
Packing group	: 11			
Labels	: Corrosive			
Packing instruction (cargo aircraft)	: 855			
Packing instruction	: 851			
(passenger aircraft)				
IMDG-Code				

UN number	:	UN 1760
Proper shipping name	:	CORROSIVE LIQUID, N.O.S.
		(NONYLPHENOL)



: (NONYLPHENOL) : 8 : II : 8 : F-A, S-B : yes	
: 8 : II : 8 : F-A, S-B	
: II : 8 : F-A, S-B	
: F-A, S-B	
: yes	
-	
to Annex II of MARPOL 73/78 and the	IBC Code
supplied.	
: UN 1760	
: Corrosive liquid, n.o.s. (Nonylphenol)	
: 8	
: 11	
: CORROSIVE	
: yes (Nonylphenol)	
	 supplied. UN 1760 Corrosive liquid, n.o.s. (Nonylphenol) 8 II CORROSIVE

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.

C ELANTAS

rsion 2	Revision Date 08/16/2	022 P	rint Date 08/16/20			
SARA 313	to the reporting requirer	: 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	24 %			
Clean Air Act This product does not contair Act Section 112 (40 CFR 61).		s (HAP), as defined by	the U.S. Clean A			
This product does not contair Accidental Release Preventic	any chemicals listed under		Section 112(r) fo			
This product does not contair Intermediate or Final VOC's (any chemicals listed under t		Section 111 SOC			
Non-volatile (Wt)	: Refer to the product tec	hnical data sheet for \	OC information.			
US State Regulations						
Massachusetts Right To Kn	ow					
New Jersey Trade Secret Registry Number for the product (NJ TSRN)	No components are sub Know Act. : Not Applicable	oject to the Massachus	setts Right to			
California Prop. 65 This product does not contair defects, or any other reproduc		te of California to cau	se cancer, birth			
The components of this pro	duct are reported in the fo	llowing inventories:				
TSCA :	: All components of this p exempt	product are listed activ	e and/or are			
	: Section 4 / 12(b): Nony	/lphenol (84852-15-3)				
		Section 5 Proposed SNUR (Phenol, 4-nonyl, branched – CAS 84852-15-3): Any use other than as an intermediate or epoxy cure catalyst.				
Section 6	Not applicable					

