SAFETY DATA SHEET		CELANTAS Electrical Insulation
CONATHANE® EN-155	4 PART A Urethane Prepe	olymer
Version 1	Revision Date 02/19/2018	Print Date 02/19/2018
SECTION 1. IDENTIFICATION		
Product name	: CONATHANE® EN-1554 PART	A Urethane Prepolymer
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	
	hemical and restrictions on use	
Recommended use	: Casting Resin	
Restrictions on use	: Refer to Section 15 for any restri	ictions that may apply
ECTION 2. HAZARDS IDENTIF	CATION	
GHS Classification		
Acute toxicity (Inhalation)	: Category 3	
Skin irritation	: Category 2	
Eye irritation	: Category 2A	
Respiratory sensitisation	: Category 1	
Skin sensitisation	: Category 1	
Carcinogenicity	: Category 2	
GHS label elements		
Hazard pictograms		
Signal word	: Danger	
Hazard statements	 H315 Causes skin irritation. H317 May cause an allergic skin H319 Causes serious eye irritation H331 Toxic if inhaled. H334 May cause allergy or asthread difficulties if inhaled. 	on.

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	H351 Suspecte	d of causing cancer.	
Precautionary statements :	P202 Do not ha and understood P261 Avoid bre P264 Wash ski P271 Use only P272 Contamin the workplace. P280 Wear pro face protection. P285 In case of protection. Response: P302 + P352 IF P304 + P340 + and keep comfe CENTER/docto P305 + P351 + for several minut to do. Continue P308 + P313 IF attention. P333 + P313 If attention. P362 Take off of Storage: P403 + P233 S tightly closed. P405 Store lock	 athing dust/ fume/ ga n thoroughly after han outdoors or in a well- nated work clothing sh tective gloves/ protect f inadequate ventilation ON SKIN: Wash wite P311 IF INHALED: Fortable for breathing. P338 IF IN EYES: Rutes. Remove contact rinsing. exposed or concerning skin irritation or rash eye irritation persists contaminated clothing tore in a well-ventilation 	recautions have been read as/ mist/ vapours/ spray. ndling. ventilated area. hould not be allowed out of tive clothing/ eye protection/ on wear respiratory h plenty of soap and water. Remove person to fresh air
Other hazards			
None known.			
SECTION 3. COMPOSITION/INFORM	MATION ON ING	REDIENTS	
Chemical nature :	Isocyanate Pre	polymer	
Hazardous components			
Component		CAS-No.	Concentration (%)
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Toluene diisocyanate		584-84-9	>= 10 - < 11
2-Methyl-m-phenylene diisocy	anate	91-08-7	>= 0.1 - < 1
TION 4. FIRST AID MEASUR	ES		
General advice	Consult a ph Show this sa Symptoms o	dangerous area. ysician. fety data sheet to the o f poisoning may appea the victim unattended.	r several hours later.
If inhaled		ian or poison control c us, place in recovery po	entre immediately. osition and seek medical
In case of skin contact	lf on skin, rin	on persists, call a phys se well with water. remove clothes.	ician.
In case of eye contact	Remove con Protect unha Keep eye wid		
If swallowed	Keep respira Do not give r Never give a If symptoms	ing immediately and ca tory tract clear. nilk or alcoholic bevera nything by mouth to ar persist, call a physicial mmediately to hospital	ages. n unconscious person. n.
TION 5. FIREFIGHTING MEA	SURES		
Unsuitable extinguishing media	: High volume	water jet	
Specific hazards during firefighting	: Do not allow courses.	run-off from fire fightin	g to enter drains or water
Further information	must not be Fire residues	discharged into drains.	extinguishing water must
			aratus for firefighting if

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ersion 1	Revision Da	te 02/19/2018	Pr	int Date 02/19/201
CTION 6. ACCIDENTAL RELE	ASE MEASURES	;		
Personal precautions, protective equipment and emergency procedures	Ensure adeq	l protective equip uate ventilation. rsonnel to safe a		
Environmental precautions	Prevent furth	contaminates ri) drains. Ilage if safe to do vers and lakes or	
Methods and materials for containment and cleaning up	acid binder, u	universal binder,	material (e.g. sar sawdust). ainers for disposa	-
CTION 7. HANDLING AND STO	ORAGE			
Advice on safe handling	Avoid expose Avoid contact For personal Smoking, eat application a Provide suffe Dispose of ri regulations. Persons suse allergies, chr	ne vapours/dust. ure - obtain spec t with skin and e protection see s ting and drinking rea. cient air exchang nse water in acco ceptible to skin s onic or recurrent		bited in the t in work rooms. al and national ems or asthma, ase should not
Conditions for safe storage	Data Sheet to Prevent unau Keep contain place. Containers w kept upright to Observe labo Electrical ins the technolog	o maintain produ athorized access er tightly closed which are opened to prevent leakage el precautions. tallations / working gical safety stanc	in a dry and well must be carefull le. ng materials mus	-ventilated y resealed and
CTION 8. EXPOSURE CONTRO				
Components with workplace				

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		exposure)	Permissible concentration	
Toluene diisocyanate	584-84-9	TWA	0.005 ppm	ACGIH
Toluene diisocyanate		STEL	0.02 ppm	ACGIH
Toluene diisocyanate		С	0.02 ppm 0.14 mg/m3	OSHA Z-1
Toluene diisocyanate		TWA	0.005 ppm 0.04 mg/m3	OSHA P0
Toluene diisocyanate		STEL	0.02 ppm 0.15 mg/m3	OSHA P0
2-Methyl-m-phenylene diisocyanate	91-08-7	TWA	0.005 ppm	ACGIH
2-Methyl-m-phenylene diisocyanate		STEL	0.02 ppm	ACGIH
2-Methyl-m-phenylene diisocyanate		С	0.02 ppm 0.14 mg/m3	OSHA Z-1
2-Methyl-m-phenylene diisocyanate		TWA	0.005 ppm 0.04 mg/m3	OSHA P0
2-Methyl-m-phenylene diisocyanate		STEL	0.02 ppm 0.15 mg/m3	OSHA P0
Porsonal protoctivo oquinm	tract sensit			ause respiratory
Personal protective equipm Respiratory protection	ent	ization. of vapour formation	tion use a respirat	
Respiratory protection	ent : In the case	ization. of vapour formation	·	
	ent : In the case approved fi : The suitabi	ization. of vapour forma ilter.	tion use a respirat workplace should	or with an
Respiratory protection Hand protection	ent In the case approved f The suitabi with the pro Eye wash t Tightly fittir	ization. of vapour formatiliter. ility for a specific oducers of the pro pottle with pure w ng safety goggles	tion use a respirat workplace should otective gloves. vater	or with an be discussed
Respiratory protection Hand protection Remarks	 In the case approved find the suitable with the provided for the suitable with the provide the provide the suitable with the providet the suitable	ization. of vapour format ilter. ility for a specific oducers of the pro oottle with pure w ng safety goggles shield and protect clothing dy protection acc	tion use a respirate workplace should otective gloves. vater	or with an be discussed mal processing unt and

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SECTION 9. PHYSICAL AND CHE	MIC	CAL PROPERTIES	
Appearance	:	liquid	
Odour Threshold	:	No data available	
рН	:	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 w	orke and the literature
Upper explosion limit	:	No data available	orks and the merature.
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	:	1.05 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			

CONATHANE® EN-1554 PAR	T A Urethane Prepolymer

rsion 1	Revision Date 02/19/2018	Print Date 02/19/201
Viscosity, dynamic	: No data available	
Viscosity, kinematic	: > 22 mm2/s (104 °F (40 °C))	
TION 10. STABILITY AND F	REACTIVITY	
Reactivity	: No decomposition if stored and app	lied as directed.
Chemical stability	: No decomposition if stored and app	lied as directed.
Possibility of hazardous reactions	: No decomposition if stored and app	lied as directed.
Conditions to avoid	: No data available	
Hazardous decomposition products	: Carbon monoxide in a fire. Nitrogen oxides in a fire. Isocyanates	
CTION 11. TOXICOLOGICAL Information on likely route Acute toxicity <u>Product:</u> Acute inhalation toxicity	s of exposure	
Information on likely route Acute toxicity		
Information on likely route Acute toxicity <u>Product:</u>	s of exposure : Acute toxicity estimate : 4.76 mg/l Exposure time: 4 h Test atmosphere: vapour Method: Calculation method	
Information on likely route Acute toxicity Product: Acute inhalation toxicity Components: 584-84-9 Toluene diisocyar	s of exposure : Acute toxicity estimate : 4.76 mg/l Exposure time: 4 h Test atmosphere: vapour Method: Calculation method	
Information on likely route Acute toxicity Product: Acute inhalation toxicity Components: 584-84-9 Toluene diisocyar	 s of exposure : Acute toxicity estimate : 4.76 mg/l Exposure time: 4 h Test atmosphere: vapour Method: Calculation method nate: LD50 (Rat): 5,800 mg/kg LD50 (Rat, male): 5,110 mg/kg Method: OECD Test Guideline 401 	
Information on likely route Acute toxicity Product: Acute inhalation toxicity Components: 584-84-9 Toluene diisocyan Acute oral toxicity	 s of exposure : Acute toxicity estimate : 4.76 mg/l Exposure time: 4 h Test atmosphere: vapour Method: Calculation method nate: LD50 (Rat): 5,800 mg/kg LD50 (Rat, male): 5,110 mg/kg Method: OECD Test Guideline 401 	
Information on likely route Acute toxicity Product: Acute inhalation toxicity Components: 584-84-9 Toluene diisocyan Acute oral toxicity	 s of exposure : Acute toxicity estimate : 4.76 mg/l Exposure time: 4 h Test atmosphere: vapour Method: Calculation method nate: LD50 (Rat): 5,800 mg/kg LD50 (Rat, male): 5,110 mg/kg Method: OECD Test Guideline 401 LC50 (Rat): 14 ppm 	9,400 mg/kg



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Acute inhalation toxicity	: LC50 : Remarks: No data available	
Acute dermal toxicity	: LD50 : Remarks: No data available	
Skin corrosion/irritation		
Product:		
Remarks: May cause skin irrita	tion and/or dermatitis.	
<u>Components:</u> 584-84-9 Toluene diisocyana Species: Rabbit Result: Moderate skin irritation	te:	
91-08-7 2-Methyl-m-phenylen Species: Rabbit Result: Moderate skin irritation	e diisocyanate:	
Serious eye damage/eye irrit	ation	
<u>Product:</u> Remarks: May cause irreversib	le eye damage.	
Components: 584-84-9 Toluene diisocyana Species: Rabbit Result: Eye irritation 91-08-7 2-Methyl-m-phenylen Species: Rabbit Result: Eye irritation		
Respiratory or skin sensitisa	tion	
<u>Product:</u> Remarks: Causes sensitisation		
Carcinogenicity		
IARC	Group 2B: Possibly carcinogenic to humans	
	Toluene diisocyanate	584-84-9
	2-Methyl-m-phenylene diisocyanate	91-08-7
ACGIH	No component of this product present at level equal to 0.1% is identified as a carcinogen or	
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NTP Reasonably anticipated to be a human carcinogen Toluene diisocyanate 2 2-Methyl-m-phenylene diisocyanate Further information 2 Product: Remarks: No data available CTION 12. ECOLOGICAL INFORMATION Ecotoxicity No data available Persistence and degradability No data available Bioaccumulative potential No data available Other adverse effects No data available 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Subst Remarks This product neither contains, nor was manufactured or for the stratospheric Core in the stratos	No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens. Reasonably anticipated to be a human carcinogen Toluene diisocyanate 584-84-9 2-Methyl-m-phenylene 91-08-7 diisocyanate r information <u>4</u> : (s: No data available 2. ECOLOGICAL INFORMATION icity a available ence and degradability a available umulative potential a available umulative potential a available totverse effects (a available ttion 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances ks 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).	sion 1	Revision Date 02/19/2018	Print Date 02/19/20
equal to 0.1% is on OSHA's list of regulated carcinogens NTP Reasonably anticipated to be a human carcinogen Toluene diisocyanate 2 2-Methyl-m-phenylene diisocyanate Further information 2 Product: Remarks: No data available CTION 12. ECOLOGICAL INFORMATION Ecotoxicity No data available Persistence and degradability No data available Bioaccumulative potential No data available Mobility in soil No data available Other adverse effects No data available 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Subst Remarks This product neither contains, nor was manufactured of the protection of the system of	equal to 0.1% is on OSHA's list of regulated carcinogens. Reasonably anticipated to be a human carcinogen Toluene diisocyanate 584-84-9 2-Methyl-m-phenylene 91-08-7 diisocyanate r information <u>ft</u> : ss: No data available 2. ECOLOGICAL INFORMATION icity a available ence and degradability a available umulative potential a available umulative potential a available diverse effects a available diverse effects a available tion 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances ks 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). nal ecological : No data available		carcinogen by ACGIH.	
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Product: Remarks: No data available CTION 12. ECOLOGICAL INFORMATION Ecotoxicity No data available 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 Subst Remarks	ti: ts: No data available 2. ECOLOGICAL INFORMATION icity a vailable ence and degradability a vailable umulative potential a available y in soil a available encese effects a available dtion 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances tks 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). nal ecological : No data available			91-08-7
Remarks: No data available CTION 12. ECOLOGICAL INFORMATION Ecotoxicity No data available 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 Stratospheric Ozone - CAA Section 602 Class I Subst Remarks This product neither contains, nor was manufactured of the strates of the strate	ss: No data available 2. ECOLOGICAL INFORMATION icity a available ence and degradability a available umulative potential a available y in soil a available udverse effects a available dtion 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances ks 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). nal ecological : No data available	Further information		
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Stratospheric Ozone - CAA Section 602 Class I Subst Remarks This product neither contains, nor was manufactured versions	ks 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). nal ecological : No data available	No data available Other adverse effects No data available		
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Section 602 (40 CFR 82, Subpt. A, App.A + B).	0	No data available Other adverse effects No data available <u>Product:</u> Regulation	Stratospheric Ozone - CAA Section 60 This product neither contains, nor was Class I or Class II ODS as defined by t	2 Class I Substances manufactured with a he U.S. Clean Air Act
0	tion	No data available Other adverse effects No data available <u>Product:</u> Regulation	Stratospheric Ozone - CAA Section 60 This product neither contains, nor was Class I or Class II ODS as defined by t	2 Class I Substances manufactured with a he U.S. Clean Air Act
information		No data available Other adverse effects No data available <u>Product:</u> Regulation Remarks	Stratospheric Ozone - CAA Section 60 This product neither contains, nor was Class I or Class II ODS as defined by t Section 602 (40 CFR 82, Subpt. A, Ap	2 Class I Substances manufactured with a he U.S. Clean Air Act
		No data available Other adverse effects No data available <u>Product:</u> Regulation Remarks	Stratospheric Ozone - CAA Section 60 This product neither contains, nor was Class I or Class II ODS as defined by t Section 602 (40 CFR 82, Subpt. A, Ap	2 Class I Substances manufactured with a he U.S. Clean Air Act
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C ELANTAS Electrical Insulation

rsion 1	Revision Date 02/19/2018	Print Date 02/19/207
CTION 13. DISPOSAL CONS	IDERATIONS	
Disposal methods		
	: WC: B	
EPA Hazardous Waste Code(s)	: D003: Reactive	
Waste from residues	: Do not dispose of waste into sewer. Do not contaminate ponds, waterwa chemical or used container. Send to a licensed waste managem	ays or ditches with
Contaminated packaging	: Empty remaining contents. Dispose of as unused product. Do not re-use empty containers.	
CTION 14. TRANSPORT INF	ORMATION	
International Regulations		
UN/ID No.	: UN 2206	
Proper shipping name	: Isocyanates, toxic, n.o.s. (Toluene diisocyanate)	
Class	: 6.1	
Packing group	: 11	
Labels	: Toxic	
Packing instruction (cargo aircraft)	: 662	
Packing instruction (passenger aircraft)	: 654	
IMDG-Code		
UN number	: UN 2206	
Proper shipping name	: ISOCYANATES, TOXIC, N.O.S. (TOLUENE DIISOCYANATE)	
Class	: 6.1	
Packing group	:	
Labels EmS Code	: 6.1 : F-A, S-A	
Marine pollutant	: yes	
Transport in bulk accordin	g to Annex II of MARPOL 73/78 and the	BC Code
	s supplied.	
Not applicable for product as		
Not applicable for product as National Regulations		

CONATHANE® EN-1554 PART A Urethane Prepolymer

ersion 1	Revision Date 02/19/2018	Print Date 02/19/2018
UN/ID/NA number	: UN 2206	
Proper shipping name	: Isocyanates, toxic, n.o.s. (Toluene diisocyanate)	
Class	: 6.1	
Packing group	: 11	
Labels	: Toxic	
Marine pollutant	: no	

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act

US. EPA CERCLA Hazardous Substances (40 CFR 302)

Components	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)
Toluene diisocyanate	584-84-9	100	951

SARA 304 - Emergency Release Notification

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Toluene diisocyanate	584-84-9	100	951

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

Components	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)
Toluene diisocyanate	584-84-9	100	951

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

Toluene diisocyanate	584-84-9	10.5 %
2-Methyl-m-phenylene diisocyanate	91-08-7	.4 %

rsion 1	Revision Date 02/19/20)18	Print Date 02/19/2018
SARA 313	: This product contains th to the reporting requiren	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	
	Toluene diisocyanate	584-84-9	10.5 %
	2-Methyl-m-phenylene diisocyanate	91-08-7	.4 %
Clean Air Act			
	s) are listed as HAP under the U.S. ne diisocyanate	. Clean Air Act, Sec 584-84-9	tion 12 (40 CFR 61): 10.5 %
	s) are listed under the U.S. Clean A	Air Act Section 112(r) for Accidental
	CFR 68.130, Subpart F): ne diisocyanate	584-84-9	10.5 %
	s) are listed under the U.S. Clean A	Air Act Section 111	SOCMI Intermediate
Final VOC's (40 CFR 60 Tolue).489): ne diisocyanate	584-84-9	10.5 %
Non-volatile (Wt)	: Refer to the product tecl	hnical data sheet fo	r VOC information.
US State Regulations			
Massachusetts Right	To Know		
	ne diisocyanate	584-84-9	
	hyl-m-phenylene diisocyanate	91-08-7	
Ethyl	acrylate	140-88-5	
Pennsylvania Right To	o Know		
	rethane Pre-Polymer	-	
	ne diisocyanate	584-84-9	
	hyl-m-phenylene diisocyanate	91-08-7	
	oyl Chloride	98-88-4	
New Jersey Right To I			
-	rethane Pre-Polymer	-	
	ne diisocyanate	584-84-9	
New Jersey Trade Sec Registry Number for t product (NJ TSRN)		91-08-7	
California Prop 65	WARNING! This produce State of California to car		al known to the
	12 / 13		

SAFETY DATA SHEET **O** ELANTAS **Electrical Insulation CONATHANE® EN-1554 PART A Urethane Prepolymer** Version 1 Revision Date 02/19/2018 Print Date 02/19/2018 Ethyl acrylate 140-88-5 WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. Toluene 108-88-3 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 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: Flammability HEALTH 3* nstability Health **FLAMMABILITY** 1 2 **PHYSICAL HAZARD** 1 0 = not significant, 1 =Slight, Special hazard. 2 = Moderate, 3 = High 4 = Extreme, * = Chronic **Revision Date** : 02/19/2018 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.