Version 5

Product name

Company

Telephone

number

E-mail address

C ELANTAS **Electrical Insulation** >ELAN-Tron® C 301 Hardener Revision Date 04/25/2019 Print Date 06/08/2020 **SECTION 1. IDENTIFICATION** : >ELAN-Tron® C 301 Hardener Manufacturer or supplier's details 2 ELANTAS PDG, INC. 5200 North 2nd Street St. Louis MO 63147 (314) 621-5700 : Visit our web site : www.elantas.com : Todd.Thomas@altana.com Emergency telephone : INFOTRAC - 1-800-535-5053 Recommended use of the chemical and restrictions on use Recommended use : Electrical Insulation Restrictions on use This product is for industrial use only. It is not intended for : consumer use or retail sale.

Refer to Section 15 for any restrictions that may apply

SECTION 2. HAZARDS IDENTIFICATION

GHS	Classification	

Acute toxicity (Oral)	: Category 4
Acute toxicity (Inhalation)	: Category 2
Acute toxicity (Dermal)	: Category 4
Skin corrosion	: Category 1B
Serious eye damage	: Category 1
Skin sensitisation	: Category 1
Reproductive toxicity	: Category 2
Specific target organ toxicity - single exposure	: Category 3 (Respiratory system)
GHS label elements Hazard pictograms	
Signal word	: Danger
Hazard statements	: H302 + H312 Harmful if swallowed or in contact with skin.

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	H314 Causes severe skin burns and H317 May cause an allergic skin rea H330 Fatal if inhaled. H335 May cause respiratory irritatio H361 Suspected of damaging fertilit	action. n.
Precautionary statements	 Prevention: P201 Obtain special instructions be P202 Do not handle until all safety p and understood. P260 Do not breathe dust/ fume/ ga P264 Wash skin thoroughly after ha P270 Do not eat, drink or smoke wh P271 Use only outdoors or in a well P272 Contaminated work clothing s the workplace. P280 Wear protective gloves/ protect face protection. P284 Wear respiratory protection. Response: P301 + P312 + P330 IF SWALLOW CENTER/doctor if you feel unwell. F P301 + P330 + P331 IF SWALLOW induce vomiting. P303 + P361 + P353 IF ON SKIN (c all contaminated clothing. Rinse skit P304 + P340 + P310 IF INHALED: 1 and keep comfortable for breathing. CENTER/doctor. P305 + P351 + P338 + P310 IF IN F water for several minutes. Remove and easy to do. Continue rinsing. In CENTER/doctor. P308 + P313 IF exposed or concern attention. P363 Wash contaminated clothing to Storage: P403 + P233 Store in a well-ventilat tightly closed. P403 + P233 Store in a well-ventilat tightly closed. P405 Store locked up. Disposal: P501 Dispose of contents/ containe disposal plant. 	brecautions have been read as/ mist/ vapours/ spray. andling. hen using this product. -ventilated area. hould not be allowed out of ctive clothing/ eye protection/ /ED: Call a POISON Rinse mouth. /ED: Call a POISON Rinse mouth. /ED: Rinse mouth. Do NOT or hair): Take off immediately n with water/shower. Remove person to fresh air Immediately call a POISON EYES: Rinse cautiously with contact lenses, if present mediately call a POISON hed: Get medical advice/ n occurs: Get medical advice/ before reuse.
Other hazards None known.		

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

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Chemical nature Hazardous components	: Aliphatic Amin	e	
Component		CAS-No.	Concentration (%)
Diethylenetriamine		111-40-0	>= 99 - < 100
Ethyleneamine		140-31-8	>= 0.1 - < 1
TION 4. FIRST AID MEASU	RES		
General advice	Symptoms of p Do not leave th	sician. ety data sheet to the c poisoning may appea he victim unattended.	r several hours later.
If inhaled		Call a physician or poison control centre immediately. If unconscious, place in recovery position and seek medical advice.	
In case of skin contact	wounds from c difficulty. If on skin, rinse	dical treatment is nec corrosion of the skin h e well with water. emove clothes.	
In case of eye contact	tissue damage In the case of of water and s Continue rinsir Remove conta Protect unharr Keep eye wide	e and blindness. contact with eyes, rin eek medical advice. ng eyes during transp ict lenses.	
If swallowed	Never give any If symptoms p	e vomiting. Ik or alcoholic bevera	unconscious person.
TION 5. FIREFIGHTING ME	ASURES		
Unsuitable extinguishing media	: High volume w		
Specific hazards during firefighting	: Do not allow ru courses.	un-off from fire fighting	g to enter drains or water
Further information		ninated fire extinguish scharged into drains.	ing water separately. This

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Special protective equipment for firefighters	Fire residues and contaminated fire be disposed of in accordance with l : Wear self-contained breathing appa necessary.	local regulations.
ECTION 6. ACCIDENTAL RELEA	ASE MEASURES	
Personal precautions, protective equipment and emergency procedures	: Use personal protective equipment Ensure adequate ventilation. Evacuate personnel to safe areas.	
Environmental precautions	: Prevent product from entering drain Prevent further leakage or spillage 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 mater acid binder, universal binder, sawd Keep in suitable, closed containers	ust).
ECTION 7. HANDLING AND STO	PRAGE	
Advice on safe handling Conditions for safe storage	 Avoid formation of aerosol. Do not breathe vapours/dust. Avoid exposure - obtain special ins Avoid contact with skin and eyes. For personal protection see section Smoking, eating and drinking shoul application area. Provide sufficient air exchange and To avoid spills during handling keep Dispose of rinse water in accordance regulations. Persons susceptible to skin sensitis allergies, chronic or recurrent respi be employed in any process in whice used. Store under conditions specified on Data Sheet to maintain product quat Prevent unauthorized access. Keep container tightly closed in a d place. Containers which are opened must kept upright to prevent leakage. Observe label precautions. 	n 8. Id be prohibited in the d/or exhaust in work rooms. p bottle on a metal tray. ce with local and national sation problems or asthma, ratory disease should not ch this mixture is being n the product Technical ality.
	Electrical installations / working ma the technological safety standards.	

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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Diethylenetriamine	111-40-0	TWA	1 ppm	ACGIH
Diethylenetriamine		TWA	1 ppm 4 mg/m3	OSHA P0
Hazardous components without	t workplace c	ontrol parameters		•
Engineering measures	All applica	adequate ventilatio ation areas should OSHA regulation	be ventilated in ac	
Personal protective equipme	nt			
Respiratory protection	: In the cas approved	e of vapour format filter.	ion use a respirato	or with an
Hand protection				
Remarks		oility for a specific		be discussed
Evo protoction		roducers of the pro		
Eye protection	Tightly fitt	bottle with pure w ing safety goggles e-shield and protec		mal processing
Skin and body protection	: Imperviou Choose b			
Hygiene measures	When usi When usi	tact with skin, eye ng do not eat or dr ng do not smoke. ids before breaks a ct.	ink.	fter handling
TION 9. PHYSICAL AND CHE	MICAL PROP	PERTIES		
Appearance Odour Threshold	: liquid : No data a	available		
рН	: No data a	available		
Melting point/freezing point Initial boiling point and boiling range	: No data a : No data a			
Vapour pressure	: No data a	available		
Flash point	Method:	(> 94 °C) No information ava on taken from refe		ha litaratura

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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	: No data available	
Gravity Density	: 0.94 g/cm3 (77 °F (25 °C))	
Solubility(ies) Water solubility	: No data available	
Solubility in other solvents	: No data available	
Partition coefficient: n-	: No data available	
octanol/water 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 Reactivity Chemical stability Possibility of hazardous reactions Conditions to avoid Hazardous decomposition products	 ACTIVITY No decomposition if stored and app No decomposition if stored and app No decomposition if stored and app No data available Carbon monoxide in a fire. Nitrogen oxides in a fire. Ammonia 	olied as directed.
Reactivity Chemical stability Possibility of hazardous reactions Conditions to avoid Hazardous decomposition	 No decomposition if stored and app No decomposition if stored and app No decomposition if stored and app No data available Carbon monoxide in a fire. Nitrogen oxides in a fire. Ammonia 	olied as directed.

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Product:		
Acute oral toxicity	: Acute toxicity estimate : 1,086 mg/kg Method: Calculation method	
Acute inhalation toxicity	: Acute toxicity estimate : 0.5 mg/l Exposure time: 4 h Test atmosphere: vapour Method: Calculation method	
Acute dermal toxicity	: Acute toxicity estimate : 1,056 mg/kg Method: Calculation method	
Components:		
111-40-0 Diethylenetriamine		
Acute oral toxicity	: LD50 (Rat): 1,080 mg/kg	
Acute inhalation toxicity	: LC50 : Remarks: No data available	
Acute dermal toxicity	: LD50 (Rabbit): 1,050 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	
Skin corrosion/irritation		
Product:		
Remarks: Extremely corrosiv	e and destructive to tissue.	
<u>Components:</u> 111-40-0 Diethylenetriamine Species: Rabbit Result: Corrosive to skin	e:	
140-31-8 Ethyleneamine: Species: Rabbit Result: Corrosive		
Serious eye damage/eye irr	itation	
Product:		
Remarks: May cause irrevers	sible eye damage.	
Components:		
111-40-0 Diethylenetriamin	e:	
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Species: Rabbit Result: Corrosive to eyes 140-31-8 Ethyleneamine: Species: Rabbit Result: Risk of serious damag Respiratory or skin sensitisa Product: Remarks: Causes sensitisation Components: 111-40-0 Diethylenetriamine: Test Type: Maximisation Test Exposure routes: Dermal Species: Guinea pig Method: OECD Test Guideline Result: May cause sensitisation GLP: yes 140-31-8 Ethyleneamine: Test Type: Maximisation Test Exposure routes: Dermal Species: Guinea pig Method: OECD Test Guideline Result: May cause sensitisation Carcinogenicity IARC	e to eyes. ation n. 406 on by skin contact.	Print Date 06/08/2020
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Species: Rabbit Result: Risk of serious damag Respiratory or skin sensitisa <u>Product:</u> Remarks: Causes sensitisation <u>Components:</u> 111-40-0 Diethylenetriamine: Test Type: Maximisation Test Exposure routes: Dermal Species: Guinea pig Method: OECD Test Guideline Result: May cause sensitisatio GLP: yes 140-31-8 Ethyleneamine: Test Type: Maximisation Test Exposure routes: Dermal Species: Guinea pig Method: OECD Test Guideline Result: May cause sensitisatio Carcinogenicity IARC	ation n. 406 on by skin contact.	
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Test Type: Maximisation Test Exposure routes: Dermal Species: Guinea pig Method: OECD Test Guideline Result: May cause sensitisatio Carcinogenicity IARC		
IARC		
OSHA	No component of this product preser equal to 0.1% is identified as probab human carcinogen by IARC.	
	No component of this product preser equal to 0.1% is on OSHA's list of re	
ΝΤΡ	No component of this product presen equal to 0.1% is identified as a know by NTP.	
Further information		
Product:		
Remarks: No data available		

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TION 12. ECOLOGICAL INFOR	RMATION
Ecotoxicity	
No data available	
Persistence and degradability	1
No data available	
Bioaccumulative potential	
No data available	
Mobility in soil	
No data available	
Other adverse effects	
Product:	
Results of PBT and vPvB assessment	: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
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	: No data available
information	
information	
TION 13. DISPOSAL CONSIDE	 ERATIONS Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemical or used container.
information TION 13. DISPOSAL CONSIDE Disposal methods	 ERATIONS 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. Empty remaining contents.
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Packing group : II Labels : Corrosive Packing instruction (cargo : 855 aircraft) Packing instruction : 851 (passenger aircraft) IMDG-Code UN number : UN 2079 Proper shipping name : DIETHYLENETRIAMINE Class : 8 Packing group : II Labels : 8 EmS Code : F-A, S-B Marine pollutant : no Transport in bulk according to Annex II of MARPOL 73/78 and the Not applicable for product as supplied. National Regulations 49 CFR UN/ID/NA number : UN 2079 Proper shipping name : Diethylenetriamine Class : 8 Packing group : II Labels : 28 Packing group : II Labels : Corrosive Marine pollutant : no TrION 15. REGULATORY INFORMATION EPCRA - Emergency Planning and Community Right-to-Know Act US. EPA CERCLA Hazardous Substances (40 CFR 302) This material does not contain any components with a SECTION 304 EHS US. EPA CERCLA Hazardous Substances (40 CFR 302) This material does not contain any components with a SECTION 304 EHS US. EPA CERCLA Hazardous Substances (40 CFR 302) This material does not contain any components with a SECTION 304 EHS US. EPA Emergency Planning and Community Right-To-Know Act US. EPA Emergency Planning and Community Right-To-Know Act SECTION 302 Extremely Hazardous Substance (40 CFR 355, Append This material does not contain any components with a SARA 302 RQ. SARA 311/312 Hazards : Per the June 13, 2016 Federal Regin harmonized the EPCRA 311/312 hazard communication and labeling of chemicals (i.e. GHS) of the SDS to identify the appropriation and labeling of chemicals (i.e. GHS) of the SDS to identify the appropriation This material does not contain any components with a SARA 302 RQ. SARA 311/312 Hazards : Per the June 13, 2016 Federal Regin harmonized the EPCRA 311/312 hazard communication and labeling of chemicals (i.e. GHS) of the SDS to identify the appropriation The SDS to identify the appropriation This material does not contain any components with a SARA 302 RQ. SARA 311/312 Hazards : Per the June 13, 2016 Federal Regin harmonized the EPCRA 311/312 Hazard co	Print Date 06/08/20
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	azard categories with the standard for classifying). Please refer to Section 2
10 / 12	

sion 5	Revision Date 04/25/2019	Print Date 06/08/2020
SARA 302	: No chemicals in this material a requirements of SARA Title III,	
SARA 313		any chemical components with eed the threshold (De Minimis) SARA Title III, Section 313.
Clean Air Act		
This product does not con Act Section 112 (40 CFR 6	tain any hazardous air pollutants (HAP) §1).), as defined by the U.S. Clean Air
	tain any chemicals listed under the U.S ntion (40 CFR 68.130, Subpart F).	5. Clean Air Act Section 112(r) for
This product does not con Intermediate or Final VOC	tain any chemicals listed under the U.S 's (40 CFR 60.489).	5. Clean Air Act Section 111 SOCMI
Massachusetts Right To		
		11-40-0
Pennsylvania Right To K		11 10 0
		11-40-0
New Jersey Right To Kne		11-40-0
New Jersey Trade Secre Registry Number for the product (NJ TSRN)		11-40-0
California Prop. 65 This product does not con defects, or any other repro	tain any chemicals known to State of C ductive harm.	alifornia to cause cancer, birth
The components of this	product are reported in the following	n inventories:
TSCA	: We certify that all of the compo listed on the TSCA Inventory o notification requirements per 4	onents of this product are either or are not subject to the
Section 4 / 12(b)	: Not applicable	
Section 5	Not applicable	
DSL	: We certify that all of the compo on the DSL.	onents of this product are listed
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C ELANTAS

Revision Date

: 04/25/2019

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.

SAFETY DATA SHEET		ELANTAS Electrical Insulation
LAN-Tron® E 203 Blac	k Resin	
/ersion 6	Revision Date 09/27/2018	Print Date 09/27/2018
ECTION 1. IDENTIFICATION		
Product name	: ELAN-Tron® E 203 Black Resi	n
Manufacturer or supplier's d	etails	
Company :	ELANTAS PDG, INC. 5200 North 2nd Street	
Telephone :	St. Louis MO 63147 (314) 621-5700	
Visit our web site : E-mail address :	www.elantas.com Todd.Thomas@altana.com	
	INFOTRAC - 1-800-535-5053	
	nemical and restrictions on use	
Recommended use	: Electrical Insulation	
Restrictions on use	: Refer to Section 15 for any rest	rictions that may apply
ECTION 2. HAZARDS IDENTIFIC	CATION	
GHS Classification		
Skin irritation	: Category 2	
Eye irritation	: Category 2A	
Skin sensitisation	: Category 1	
Carcinogenicity	: Category 1A	
Specific target organ toxicity - single exposure	: Category 3 (Respiratory system	n)
Specific target organ toxicity - repeated exposure (Inhalation)	: Category 1 (Lungs)	
GHS label elements		
Hazard pictograms		
Signal word	: Danger	
Hazard statements	: H315 Causes skin irritation. H317 May cause an allergic ski H319 Causes serious eye irrita	

Version 6	Revision Date 09/27/2018	Print Date 09/27/2018
	H335 May cause respiratory irritation H350 May cause cancer. H372 Causes damage to organs (Lu repeated exposure if inhaled.	
Precautionary statements :	 Prevention: P201 Obtain special instructions before P202 Do not handle until all safety prevention of the procession of	recautions have been read s/ mist/ vapours/ spray. hdling. en using this product. ventilated area. hould not be allowed out of tive clothing/ eye protection/ h plenty of soap and water. Remove person to fresh air Call a POISON inse cautiously with water t lenses, if present and easy ed: Get medical advice/ occurs: Get medical advice/ s: Get medical advice/ g and wash before reuse. ed place. Keep container
None known.		
SECTION 3. COMPOSITION/INFOR	MATION ON INGREDIENTS	
Chemical nature :	Modified epoxy resin	
Hazardous components		
	2/13	

ELAN-Tron® E 203 Black Resin

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Component			CAS-No.	Concentration (%)
Epoxy Resin	/ Resin		25068-38-6	>= 50 - < 51
	poxy Resin Magnesium Silicate Talc (contains no asbestos		14807-96-6	>= 43 - < 44
fibers) Amorphous silica gel			112945-52-5	>= 3 - < 4
Crystalline silica			14808-60-7	>= 0.1 - < 1
,				
TION 4. FIRST AID MEASUR	ES			
General advice		Move out of da Show this safe Do not leave th	angerous area. ety data sheet to th ne victim unattend	e doctor in attendance. ed.
If inhaled		advice.	s, place in recovery ersist, call a physic	position and seek medical cian.
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.		
TION 5. FIREFIGHTING MEA	SUF	RES		
Unsuitable extinguishing media	:	High volume w	vater jet	
Further information		Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.		t are appropriate to local
Special protective equipment for firefighters		Wear self-cont necessary.	tained breathing a	oparatus for firefighting if
		3/1		

C ELANTAS Electrical Insulation

ELAN-Tron® E 203 Black Resin

Version 6 Revision Date 09/27/2018 Print Date 09/27/2018 SECTION 6. ACCIDENTAL RELEASE MEASURES Personal precautions, : Use personal protective equipment. protective equipment and emergency procedures 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 Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). containment and cleaning up 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 : Avoid formation of aerosol. 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. Provide sufficient air exchange and/or exhaust in work rooms. 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. Store under conditions specified on the product Technical Conditions for safe storage 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

ELANTAS

ELAN-Tron® E 203 Black Resin

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C ELANTAS Electrical Insulation

the technological safety standards. High temperature exposure during storage for extended periods of time may result in spontaneous uncontrolled exothermic polymerization. This increases pressure inside a closed container and may result in the violent rupture of the container.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Magnesium Silicate Talc (contains no asbestos fibers)	14807-96-6	TWA (Dust)	20 Million particles per cubic foot	OSHA Z-3
Magnesium Silicate Talc (contains no asbestos fibers)		TWA (Respirable fraction)	2 mg/m3	ACGIH
Amorphous silica gel	112945-52-5	TWA	80 mg/m3	OSHA Z-1
Crystalline silica	14808-60-7	TWA (total dust)	30 mg/m3 / %SiO2+2	OSHA Z-3
Crystalline silica		TWÁ (respirable)	250 mppcf / %SiO2+5	OSHA Z-3
Crystalline silica		TWA (respirable)	10 mg/m3 / %SiO2+2	OSHA Z-3
Crystalline silica		TWA (respirable dust fraction)	0.1 mg/m3	OSHA P0
Crystalline silica		TWA (Respirable fraction)	0.025 mg/m3 (Silica)	ACGIH

Hazardous components without workplace control parameters

 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

Pospiratory protoction

Respiratory protection

: In the case of vapour formation use a respirator with an

sion 6		Revision Date 09/27/2018	Print Date 09/27/207
		approved filter.	
Hand protection Remarks		The suitability for a specific workplay with the producers of the protective of	
Eye protection		Eye wash bottle with pure water Tightly fitting safety goggles Wear face-shield and protective suit problems.	for abnormal processing
Skin and body protection		Impervious clothing Choose body protection according to concentration of the dangerous subs	
Hygiene measures		When using do not eat or drink. When using do not smoke. Wash hands before breaks and at th	e end of workday.
TION 9. PHYSICAL AND CHE	MI	CAL PROPERTIES	
Appearance	:	liquid	
Odour Threshold	:	No data available	
рН	:	No data available	
pH Melting point/freezing point	:	No data available No data available	
	:		
Melting point/freezing point Initial boiling point and boiling		No data available	
Melting point/freezing point Initial boiling point and boiling range		No data available No data available	
Melting point/freezing point Initial boiling point and boiling range Vapour pressure	:	No data available No data available No data available Greater than 201 °F (94 °C)	
Melting point/freezing point Initial boiling point and boiling range Vapour pressure Flash point	:	No data available No data available No data available Greater than 201 °F (94 °C) Method: ASTM D 93	
Melting point/freezing point Initial boiling point and boiling range Vapour pressure Flash point Upper explosion limit	:	No data available No data available No data available Greater than 201 °F (94 °C) Method: ASTM D 93 No data available	
Melting point/freezing point Initial boiling point and boiling range Vapour pressure Flash point Upper explosion limit Lower explosion limit	:	No data available No data available No data available Greater than 201 °F (94 °C) Method: ASTM D 93 No data available No data available	
Melting point/freezing point Initial boiling point and boiling range Vapour pressure Flash point Upper explosion limit Lower explosion limit Evaporation rate	: : : : :	No data available No data available No data available Greater than 201 °F (94 °C) Method: ASTM D 93 No data available No data available No data available	

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Density	: 1.6320 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	: Greater than 22 mm2/s (104 °F (40) °C))
SECTION 10. STABILITY AND RE Reactivity	ACTIVITY : No decomposition if stored and app	blied as directed.
Chemical stability	: No decomposition if stored and app : No decomposition if stored and app	
Possibility of hazardous reactions	: No decomposition if stored and app	
Conditions to avoid	: No data available	
Hazardous decomposition products	: The by-products expected in incom combustion of epoxy resins are ma water.	
SECTION 11. TOXICOLOGICAL I	NFORMATION	
Information on likely routes Inhalation Skin contact Eyes	of exposure	
Acute toxicity		
Product: Acute oral toxicity	: Acute toxicity estimate : 4,959 mg/k Method: Calculation method	g
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sion 6	Revision Date 09/27/2018	Print Date 09/27/201
Acute dermal toxicity	: Acute toxicity estimate : 4,959 mg/kg Method: Calculation method]
<u>Components:</u>		
25068-38-6 Epoxy Resin:		
Acute oral toxicity	: LD50 (Rat): 11,400 mg/kg	
	LD50 (Rat, female): > 2,000 mg/kg Method: OECD Test Guideline 420 GLP: yes	
Acute inhalation toxicity	: LC50 : Remarks: No data available	
Acute dermal toxicity	: LD50 (Rabbit): 23,400 mg/kg	
	LD50 (Rat, male and female): > 2,00 Method: OECD Test Guideline 402 GLP: yes	0 mg/kg
112945-52-5 Amorphous sil Acute oral toxicity	ica gel: : LD50 (Rat): > 10,000 mg/kg	
Acute inhalation toxicity	: LC50 (Rat): 0.1390 mg/l	
Acute dermal toxicity	: LD50 (Rabbit): > 5,000 mg/kg	
Skin corrosion/irritation		
Product:		
Remarks: May cause skin irri	tation and/or dermatitis.	
<u>Components:</u> 25068-38-6 Epoxy Resin: Species: Rabbit Result: Moderate skin irritatio	n	
Species: Rabbit Exposure time: 4 h Method: OECD Test Guidelir Result: Skin irritation GLP: yes	ne 404	
112945-52-5 Amorphous sil Species: Rabbit Method: OECD Test Guidelir Result: No skin irritation GLP: yes	-	
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LAN-Tron® E 203	Black Resin	
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Serious eye damage/e	eye irritation	
Product:	-	
Remarks: May cause ir	reversible eye damage.	
<u>Components:</u>		
25068-38-6 Epoxy Res	sin:	
Species: Rabbit Result: Eye irritation		
112945-52-5 Amorpho Species: Rabbit	us silica gel:	
Result: No eye irritation		
Method: OECD Test Gu GLP: yes	Jideline 405	
Respiratory or skin se	nsitisation	
Product: Remarks: Causes sens	itisation	
Remains. Causes sens	iusauon.	
Species: Mouse Method: OECD Test G	al Lymph Node assay (LLNA)	
Carcinogenicity		
IARC	Group 1: Carcinogenic to humans	
	Crystalline silica	14808-60-7
OSHA	No component of this product preser equal to 0.1% is on OSHA's list of reg	
NTP	Known to be human carcinogen	
	Crystalline silica	14808-60-7
Aspiration toxicity		
<u>Components:</u> 25068-38-6 Epoxy Res No aspiration toxicity cl		

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		Electrical Insulation
LAN-Tron® E 203 Blac	k Resin	
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Further information		
Product:		
Remarks: No data available		
CTION 12. ECOLOGICAL INFO	RMATION	
Ecotoxicity		
No data available		
Persistence and degradabilit No data available	у	
Bioaccumulative potential No data available		
Mobility in soil No data available		
Other adverse effects No data available		
Product:		
Regulation	40 CFR Protection of Environment; Stratospheric Ozone - CAA Sectior	
Remarks	This product neither contains, nor v Class I or Class II ODS as defined b Section 602 (40 CFR 82, Subpt. A,	by the U.S. Clean Air Act
Additional ecological information	: No data available	
CTION 13. DISPOSAL CONSID	ERATIONS	
EPA Hazardous Waste Code(s)	: none	
Waste from residues	 Do not dispose of waste into sewer Do not contaminate ponds, waterwa chemical or used container. Send to a licensed waste managen Catalyzed resin can generate haza allowed to polymerize in a mass. A must be water soaked, and kept in of. Dispose of the solid mass only if cu mass has cooled. Follow federal, s regulations. 	ays or ditches with nent company. rdous exothermic heat if Il soiled or waste materials a closed bin until disposed ure is complete and the

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Contaminated packaging	: Empty remaining contents. Dispose of as unused product. Do not re-use empty containers.	
CTION 14. TRANSPORT INF	FORMATION	
International Regulations		
IATA-DGR Not regulated as a dangerou	us good	
IMDG-Code Not regulated as a dangerou	us good	
Transport in bulk according Not applicable for product a	ng to Annex II of MARPOL 73/78 and the supplied.	e IBC Code
National Regulations		
49 CFR Not regulated as a dangerou	us good	
EPCRA - Emergency Plan	ning and Community Right-to-Know Ac	t
US. EPA CERCLA Hazard	ning and Community Right-to-Know Acous Substances (40 CFR 302) Isonably attainable upper limit.	t
US. EPA CERCLA Hazard Calculated RQ exceeds rea SARA 304 - Emergency R	ous Substances (40 CFR 302) asonably attainable upper limit. elease Notification	
US. EPA CERCLA Hazard Calculated RQ exceeds rea SARA 304 - Emergency R This material does not conta	ous Substances (40 CFR 302) asonably attainable upper limit. elease Notification ain any components with a section 304 EH	IS RQ.
US. EPA CERCLA Hazard Calculated RQ exceeds rea SARA 304 - Emergency R This material does not conta US. EPA Emergency Plan	ous Substances (40 CFR 302) asonably attainable upper limit. elease Notification	IS RQ. c t (EPCRA) SARA Title III
US. EPA CERCLA Hazard Calculated RQ exceeds rea SARA 304 - Emergency R This material does not conta US. EPA Emergency Plan Section 302 Extremely Ha	ous Substances (40 CFR 302) asonably attainable upper limit. elease Notification ain any components with a section 304 EF ning and Community Right-To-Know Ad	IS RQ. ct (EPCRA) SARA Title III ndix A)
US. EPA CERCLA Hazard Calculated RQ exceeds rea SARA 304 - Emergency R This material does not conta US. EPA Emergency Plan Section 302 Extremely Ha	ous Substances (40 CFR 302) asonably attainable upper limit. elease Notification ain any components with a section 304 EF ning and Community Right-To-Know Ac izardous Substance (40 CFR 355, Apper	IS RQ. ct (EPCRA) SARA Title III ndix A) ister notice, EPA azard categories with the a standard for classifying S). Please refer to Section 2

known CAS numbers that	
This product does not contain any hazardous air pollutants (FAct Section 112 (40 CFR 61). This product does not contain any chemicals listed under the Accidental Release Prevention (40 CFR 68.130, Subpart F). This product does not contain any chemicals listed under the	
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 112(r) for
	U.S. Clean Air Act Section 111 SOCN
Non-volatile (Wt) : Refer to the product techn	ical data sheet for VOC information.
Massachusetts Right To Know	14907.00.0
Magnesium Silicate Talc (contains no asbestos fibers)	14807-96-6
Crystalline silica	14808-60-7
Pennsylvania Right To Know Epoxy Resin	25068-38-6
Magnesium Silicate Talc (contains no asbestos fibers)	14807-96-6
Amorphous silica gel	112945-52-5
New Jersey Right To Know	
Epoxy Resin	25068-38-6
Magnesium Silicate Talc (contains no asbestos fibers)	14807-96-6
Amorphous silica gel	112945-52-5
Chlorite	1318-59-8
Crystalline silica	14808-60-7
New Jersey Trade Secret : NOT APPLICABLE Registry Number for the product (NJ TSRN)	
California Prop. 65 MARNING: This product can expose you to chemicals in Phenyl glycidyl ether, which is/are known to the State of Calif which is/are known to the State of California to cause birth de more information go to www.P65Warnings.ca.gov.	fornia to cause cancer, and Methanol,
The components of this product are reported in the follo	wing inventories:
TSCA : We certify that all of the co	omponents of this product are either ory or are not subject to the
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Section 4 / 12(b)	: Not applicable		
Section 5	Not applicable		
DSL	: We certify that all of the component on the DSL.	: We certify that all of the components of this product are listed on the DSL.	

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Electrical Insulation

SECTION 16. OTHER INFORMATION

