

Version 2

Revision Date 11/10/2010

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SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : RanVar™ B277-2 (32104Z1)
Product Use Description : Electrical Insulation

Company : ELANTAS PDG, INC.
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St. Louis MO 63147

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SECTION 2. HAZARDS IDENTIFICATION**Emergency Overview**

Form : liquid
Hazard Summary : TOXIC BY INHALATION.
HARMFUL IN CONTACT WITH SKIN.
IRRITATING TO EYES.
FLAMMABLE.

OSHA Regulatory Status

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR1910.1200)

Potential Health Effects

Eyes : Direct contact of product with eye may cause moderate irritation with corneal injury.
Direct contact with the product or exposure to vapors or mist may cause stinging, tearing and redness.

Skin : Can cause irritation which may include the following symptoms: reddening, swelling, rash, scaling or blistering.
May be harmful if absorbed through skin.
May produce central nervous system depression with headache and/or nausea.

Ingestion : Harmful if swallowed.
May cause gastrointestinal irritation and central nervous system effects such as dizziness, drowsiness, and/or loss of coordination.
Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

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- Inhalation** : Breathing high concentrations of vapors or mist may cause upper respiratory tract irritation and may be associated with cardiac irregularities.
May affect the brain or nervous system, causing dizziness, headache, or nausea.
Repeated exposure to high concentrations may cause liver and/or kidney damage.
- Chronic Exposure** : Repeated excessive exposure to this product may cause central nervous system, liver, or kidney effects and respiratory or eye irritation.
Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage.
Overexposure to this material (or its components) may cause hearing loss based on animal studies.
- Aggravated Medical Condition** : Respiratory disorders
Skin disorders
Kidney disorders
Liver disorders
- Primary Routes of Entry** : Inhalation
Skin contact
Skin absorption

Carcinogenicity:

IARC	Ethylbenzene	100-41-4
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No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

ACGIH	Ethylbenzene	100-41-4
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Environmental Effects

Environmental Effects : No information available.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature

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Modified Alkyd Resin Solution

Hazardous components

The specific chemical identity/weight percent of proprietary ingredient(s) is a trade secret

Component	CAS-No.	Weight percent
Solvent naphta (petroleum), light aliphatic	64742-89-8	10.00 - 30.00
Xylene	1330-20-7	10.00 - 30.00
Ethylbenzene	100-41-4	1.00 - 5.00

SECTION 4. FIRST AID MEASURES**First aid procedures**

- Inhalation : If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Consult a physician.
- Skin contact : In case of contact, immediately flush skin with soap and plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash and thoroughly clean contaminated clothing and shoes before reuse. Consult a physician.
- Eye contact : In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Consult a physician.
- Ingestion : If swallowed, consult a physician. This material (or its components) may present an aspiration hazard. Never give anything by mouth to an unconscious person.

Notes to physician

Treatment : No information available.

SECTION 5. FIRE-FIGHTING MEASURES**Flammable properties**

Flash point : 22 °C (72 °F)
Method: ASTM D 93
Tested

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- Suitable extinguishing media : Carbon dioxide (CO₂)
Foam
Dry powder
Water mist
Water spray
- Unsuitable extinguishing media : Do NOT use water jet.
- Special protective equipment for fire-fighters : Wear a positive-pressure supplied-air respirator with full facepiece.
Use personal protective equipment.
- Specific hazards during fire fighting : Do not use a solid water stream as it may scatter and spread fire.
Cool containers / tanks with water spray.
Flash back possible over considerable distance.
The pressure in sealed containers can increase under the influence of heat.
Cool closed containers exposed to fire with water spray.
- Hazardous decomposition products due to incomplete combustion. : Carbon oxides
nitrogen oxides (NO_x)
- Further information : Remove ignition sources
Immediately evacuate personnel to safe areas.
Use a water spray to cool fully closed containers.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : Remove all sources of ignition.
Ensure adequate ventilation.
Avoid breathing vapors.
Refer to protective measures listed in sections 7 and 8.
- Environmental precautions : Clean contaminated floors and objects thoroughly while observing environmental regulations.
- Methods for containment : Stop leak. Dike and contain spill.
- Methods for cleaning up : Absorb with inert absorbent material and dispose of in accordance with applicable regulations.
- Additional advice : Shut off source of spill if it can be done safely.
Use non-sparking tools.

SECTION 7. HANDLING AND STORAGE

Handling

Handling :

- Keep closure tight and container upright to prevent leakage.
- Store container out of sunlight and away from heat, sparks and flame.
- Store only in well-ventilated areas.
- Containers should be grounded when being emptied.
- Never use pressure to empty.
- Container is not a pressure vessel.
- Do not puncture, drag, or slide container.
- ATTENTION: Emptied containers may retain hazardous residue and explosive vapors. Keep away from heat, sparks and flames. Do not cut, puncture or weld on or near this container. Follow label warnings until container is thoroughly cleaned or destroyed.
- Avoid contact with or breathing of vapors during curing process.
- Do not get in eyes.
- Prevent repeated or prolonged breathing of vapor or spray mist.

Storage

Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place.
 Advice on common storage : Do not store above 49°C (120 °F).

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Components with workplace control parameters

Components	CAS-No.	Value	Control parameters	Update	Basis
Xylene	1330-20-7	TWA	100 ppm	2007-01-01	ACGIH
		STEL	150 ppm	2007-01-01	ACGIH
		TWA	100 ppm 435 mg/m3	1997-08-04	OSHA P1
		TWA	100 ppm 435 mg/m3	1989-01-19	OSHA P0
		STEL	150 ppm 655 mg/m3	1989-01-19	OSHA P0

Ethylbenzene	100-41-4	TWA	100 ppm	2009-01-01	ACGIH
		STEL	125 ppm	2009-01-01	ACGIH
		TWA	100 ppm 435 mg/m3	1997-08-04	OSHA P1
		TWA	100 ppm 435 mg/m3	1989-01-19	OSHA P0
		STEL	125 ppm 545 mg/m3	1989-01-19	OSHA P0

Engineering measures

Engineering measures : Use with adequate ventilation.
All application areas should be ventilated in accordance with applicable OSHA regulations. (29 CFR 1910.94)

Personal protective equipment

Eye protection : Use safety eyewear designed to protect against splash of liquids.
Ensure that eyewash stations and safety showers are close to the workstation location.

Hand protection : Impervious gloves

Skin and body protection : Impervious clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection : Wear an appropriate, properly-fitted respirator (NIOSH/MSHA approved) during and after application unless air monitoring demonstrates that vapor/mist levels are below applicable limits. Follow respirator manufacturer's directions for respirator use.

Hygiene measures : Do not get in eyes.
Do not get on skin.
Avoid prolonged or repeated breathing of vapor.
Wash thoroughly after handling.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Form	: liquid
Odor Threshold	: no data available
Flash point	: 22 °C (72 °F) Method: ASTM D 93 Tested
Ignition temperature	: no data available
Lower explosion limit	: no data available
Upper explosion limit	: no data available
pH	: no data available
Freezing point	: no data available : > 37 °C (> 99 °F)
Vapour pressure	: no data available
Evaporation rate	: no data available
Density	: 0.8655 g/cm ³ at 25 °C (77 °F) (1.013 hPa)
Bulk density	: 866 kg/m ³
Partition coefficient: n-octanol/water	: no data available
Relative vapour density	: no data available

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid	: Keep away from open flames, hot surfaces and sources of ignition.
Materials to avoid	: Strong oxidizing agents Acids and bases
Hazardous decomposition products	: Carbon dioxide, carbon monoxide and toxic vapors. nitrogen oxides (NO _x)
Chemical stability	: Stable

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity (Component)	: Component: 1330-20-7 Xylene LD50 rat Dose: 3,523 mg/kg
	: Component: 100-41-4 Ethylbenzene LD50 rat Dose: 3,500 mg/kg

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Acute dermal toxicity (Component)	: Component: 1330-20-7 Xylene LD50 rabbit Dose: 1,700 mg/kg
	Component: 100-41-4 Ethylbenzene LD50 rabbit Dose: 5,510 mg/kg
Acute inhalation toxicity (Component)	: Component: 1330-20-7 Xylene LC50 rat Dose: 5000 ppm Exposure time: 4 h
	Component: 100-41-4 Ethylbenzene LC50 no data available
Skin irritation (Component)	: Component: 1330-20-7 Xylene rabbit Result: Moderate skin irritation
	Component: 100-41-4 Ethylbenzene rabbit Result: Moderate skin irritation
Eye irritation(Component)	: Component: 1330-20-7 Xylene rabbit Result: Eye irritation
	Component: 100-41-4 Ethylbenzene rabbit Result: Moderate eye irritation

SECTION 12. ECOLOGICAL INFORMATION

Additional ecological information (Product) : no data available

SECTION 13. DISPOSAL CONSIDERATIONS

Further information : Dispose of in accordance with applicable Federal, State, and local regulations. Under the Resource Conservation and Recovery Act (RCRA) regulations, it is the responsibility of the product user to determine, at the time of disposal, whether a material should be classified as a hazardous waste. Consult your attorney or appropriate regulatory affairs officer for information on proper disposal.

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SECTION 14. TRANSPORT INFORMATION

DOT	UN Number	: 1866
	Proper shipping name	: RESIN SOLUTION
	Class	: 3
	Packing group	: II
IATA	UN Number	: 1866
	Description of the goods	: RESIN SOLUTION
	Class	: 3
	Packing group	: II
	ICAO-Labels	: 3
	Packing instruction (cargo aircraft)	: 307
	Packing instruction (passenger aircraft)	: 305
IMDG	UN Number	: UN 1866
	Description of the goods	: RESIN SOLUTION
	Class	: 3
	Packing group	: II
	IMDG-Labels	: 3
	EmSNumber1	: F-E
	EmSNumber2	: S-E
Marine pollutant	: no	

SECTION 15. REGULATORY INFORMATION

HMIS Classification : Health hazard: 2
 Chronic Health Hazard: *
 Flammability: 3
 Reactivity: 0
 PPI: Safety Glasses, Gloves

National Fire Protection Association (NFPA) Class : IB

Emergency Planning Community Right-To-Know (EPCRA)

SARA 302 Components : Hydroquinone 123-31-9

If listed below, this product contains 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.

SARA 313 Components : Xylene 1330-20-7 13.5%

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Ethylbenzene 100-41-4 3.6%

SARA 311/312 Hazards : Acute Health Hazard
Chronic Health Hazard
Fire Hazard

Reportable Quantity : 740 lbs

Toxic Substances Control Act (TSCA)

TSCA Status : 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 12(b) : If exporting, contact EHS Department.
p-Xylene (106-42-3)

Clean Air Act & Related Information

Non-volatile (Wt) : 51 %
Method: Not available

Non-volatile information is not a specification.

Hazardous Air Pollutants

Xylene 1330-20-7
Ethylbenzene 100-41-4

If not listed above, this product does not contain HAPs at 1% or 0.1% or greater. Refer to Section 3 for HAP weight percentage.

Resource Conservation and Recovery Act

EPA Hazardous Waste Code(s) : D001 Ignitable
D018 Benzene

State Laws

Massachusetts Right To Know Components : Xylene 1330-20-7
Ethylbenzene 100-41-4
Benzene 71-43-2
Hydroquinone 123-31-9

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Pennsylvania Right To Know Components

: Modified alkyd -
Solvent naphta (petroleum), light aliphatic 64742-89-8
Xylene 1330-20-7
Ethylbenzene 100-41-4
Toluene 108-88-3
Cumene 98-82-8
m-xylene 108-38-3
Benzene 71-43-2
Hydroquinone 123-31-9

New Jersey Right To Know Components

: Modified alkyd -
Solvent naphta (petroleum), light aliphatic 64742-89-8
Xylene 1330-20-7
Ethylbenzene 100-41-4
Toluene 108-88-3

New Jersey Trade Secret Registry Number for the product (NJ TSRN)

: NOT APPLICABLE

California Prop. 65 Components

: WARNING! This product contains a chemical known to the State of California to cause cancer.

Contains or Trace concentrations Benzene
Ethylbenzene 100-41-4
Benzene 71-43-2
WARNING! This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Contains or Trace concentrations Benzene
Toluene 108-88-3
Benzene 71-43-2

Canadian Environmental Protection Act

Domestic Substances List DSL Status

: We certify that all of the components of this product are listed on the DSL., The following component(s) is/are not listed on the DSL:
Modified alkyd -

WHMIS Classification

: D2A
D2B
B2

SECTION 16. OTHER INFORMATION

Further information

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.