

Pedigree® 1000-70-50

Version 4

Revision Date 05/13/2013

Print Date 05/22/2013

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Pedigree® 1000-70-50
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 : IRRITATING TO EYES AND SKIN.
HARMFUL BY INHALATION.
RISK OF SERIOUS DAMAGE TO EYES.
MAY CAUSE BIRTH DEFECTS.

OSHA Regulatory Status

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

Potential Health Effects

Eyes : Causes eye irritation.
There will be moderately severe conjunctivitis seen as excess redness and swelling of the conjunctiva.
Corneal damage may occur.

Skin : Causes skin irritation.
May cause sensitisation by skin contact.
Prolonged contact may result in discoloration, swelling, scaling, and/or blistering.
May be harmful if absorbed through skin.

Ingestion : Exposure can result in irritation and corrosive action in the mouth, stomach tissue and digestive tract.

Inhalation : Vapors or mist may cause mucous membrane irritation and upper respiratory tract discomfort.
May affect the brain or nervous system, causing dizziness, headache, or nausea.

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- Chronic Exposure : Absorption of 2-Butoxyethanol by inhalation and/or repeated skin contact may cause injury to liver, kidney and blood damage.
2-Butoxyethanol is considered fetotoxic; has caused toxic reproductive effects in laboratory animals at maternally toxic doses.
- Aggravated Medical Condition : Overexposure may aggravate existing eye, skin, and/or respiratory disorders.
Kidney disorders
Liver disorders
- Primary Routes of Entry : Inhalation
Skin contact
Skin Absorption
Eyes
- Target Organs : Skin
Eyes
Respiratory system
Kidney
Liver

Carcinogenicity:

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

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	2-Butoxyethanol	111-76-2
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Environmental Effects

Environmental Effects : No information available.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**Chemical nature**

Modified Alkyd Resin Solution

Hazardous components

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

Component	CAS-No.	Weight percent
2-Butoxyethanol	111-76-2	10.00 - 30.00
Triethylamine	121-44-8	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

- Risks : No information available.

SECTION 5. FIREFIGHTING MEASURES**Flammable properties**

- Flash point : 130 °F (130 °F)
Method: ASTM D 93
- Suitable extinguishing media : Carbon dioxide (CO2)
Foam
Dry powder
Water mist
Water spray
- Unsuitable extinguishing media : Do NOT use water jet.

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| Special protective equipment for firefighters | : | Wear a positive-pressure supplied-air respirator with full facepiece.
Use personal protective equipment. |
| Specific hazards during firefighting | : | 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.
Thermal decomposition can lead to release of irritating gases and vapours. |
| Hazardous decomposition products due to incomplete combustion. | : | Carbon oxides
nitrogen oxides (NOx)
formaldehyde
Ammonia |
| 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

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|---------------------------|---|--|
| 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**

- | | | |
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| Handling | : | Keep closure tight and container upright to prevent leakage.
Do not puncture, drag, or slide container.
Container is not a pressure vessel.
Never use pressure to empty.
Avoid prolonged or repeated inhalation of spray mists and |
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heated vapors.
Avoid contact with or breathing of vapors during curing process.
Avoid contact with skin.
Do not get in eyes.

Advice on protection against fire and explosion : ATTENTION: Empty containers may retain hazardous residue and explosive vapors. Do not cut, puncture, or weld on or near this container until it has been thoroughly cleaned and all hazards have been removed.
To avoid ignition of vapours by static electricity discharge, all metal parts of the equipment must be grounded.

Storage

Further information on storage conditions : Store only in well-ventilated areas.
Store container out of sunlight and away from heat, sparks and flame.

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
2-Butoxyethanol	111-76-2	TWA	20 ppm	2007-01-01	ACGIH
		TWA	50 ppm 240 mg/m3	1997-08-04	OSHA Z-1
		TWA	5 ppm 24 mg/m3	2005-09-01	NIOSH REL
Triethylamine	121-44-8	TWA	1 ppm	2007-01-01	ACGIH
		STEL	3 ppm	2007-01-01	ACGIH
		TWA	25 ppm 100 mg/m3	1997-08-04	OSHA Z-1

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Engineering measures

Engineering measures : Use with adequate ventilation.
Provide general dilution or local exhaust ventilation in volume and pattern to keep the air contaminant concentration below the applicable exposure limit (OSHA PEL) of the combined components listed in Section III and below the LEL listed in this section.
All application areas should be ventilated in accordance with applicable OSHA regulations. (29 CFR 1910.94)
Formaldehyde may be released during the curing process. Formaldehyde is a suspected human carcinogen and a skin and respiratory sensitizer. Prolonged or repeated exposure to vapors may result in respiratory impairment and/or liver, kidney or heart effects.

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

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Form : liquid
Odor Threshold : no data available
Flash point : 130 °F (130 °F)
Method: ASTM D 93

Ignition temperature : no data available
Lower explosion limit : no data available

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Upper explosion limit	: no data available
pH	: no data available
Freezing point	: no data available
Boiling point	: no data available
Vapour pressure	: no data available
Evaporation rate	: no data available
Density	: 1.0629 g/cm ³ at 25 °C (77 °F) (1.013 hPa)
Bulk density	: 1,062.8604 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
Hazardous decomposition products	: Carbon monoxide in a fire. Nitrogen oxides in a fire. formaldehyde
Chemical stability	: Stable

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity (Component)	: Component: 111-76-2 2-Butoxyethanol LD50 rat Dose: 530 mg/kg LD50 rabbit Dose: 520 mg/kg Component: 121-44-8 Triethylamine LD50 rat Dose: 460 mg/kg
Acute dermal toxicity (Component)	: Component: 111-76-2 2-Butoxyethanol LD50 rabbit Dose: 220 mg/kg LD50 rabbit Dose: 100 mg/kg Component: 121-44-8 Triethylamine LD50 rabbit

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Dose: 0.5 mg/kg

Acute inhalation toxicity (Component) : Component: 111-76-2 2-Butoxyethanol
LC50 rat
Dose: 468 ppm
Exposure time: 4 h

Component: 121-44-8 Triethylamine
LC50 mouse
Dose: 600 ppm

Skin irritation (Component) : Component: 111-76-2 2-Butoxyethanol
rabbit
Result: Moderate skin irritation

Component: 121-44-8 Triethylamine
rabbit
Result: Mild skin irritation

Eye irritation(Component) : Component: 111-76-2 2-Butoxyethanol
rabbit
Result: Eye irritation

Component: 121-44-8 Triethylamine
no data available

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.

SECTION 14. TRANSPORT INFORMATION

DOT Not dangerous goods
Tested and Passed Sustained Combustibility per 49 CFR 173 Appendix H, IATA 3.3.1.3a, IMDG 2.3.1.3.1.

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IATA Not dangerous goods
Tested and Passed Sustained Combustibility per 49 CFR 173 Appendix H, IATA 3.3.1.3a, IMDG 2.3.1.3.1.

IMDG_US Not dangerous goods
Tested and Passed Sustained Combustibility per 49 CFR 173 Appendix H, IATA 3.3.1.3a, IMDG 2.3.1.3.1.

SECTION 15. REGULATORY INFORMATION

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

National Fire Protection Association (NFPA) Class : II

Emergency Planning Community Right-To-Know (EPCRA)

SARA 302 Components : The following components are subject to reporting levels established by SARA Title III, Section 302:
: Formaldehyde 50-00-0

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	: 2-Butoxyethanol	111-76-2	14.4%
	Triethylamine	121-44-8	4.2%

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

CERCLA Reportable Quantity : Calculated RQ exceeds reasonably attainable upper limit.
SARA 302 Reportable Quantity : Calculated RQ exceeds reasonably attainable upper limit.
SARA 304 Reportable Quantity : Calculated RQ exceeds reasonably attainable upper limit.

Toxic Substances Control Act (TSCA)

TSCA Status : We certify that all of the components of this product are either

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listed on the TSCA Inventory or are not subject to the notification requirements per 40 CFR 720.30(h).

:

Clean Air Act & Related Information

Non-volatile (Wt) : 50 %
Method: Not applicable.

Non-volatile information is not a specification.

Hazardous Air Pollutants

Triethylamine 121-44-8

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

State Laws

Massachusetts Right To Know Components : 2-Butoxyethanol 111-76-2
Triethylamine 121-44-8
Formaldehyde 50-00-0

Pennsylvania Right To Know Components : Modified Alkyd Resin -
Water 7732-18-5
2-Butoxyethanol 111-76-2
Melamine-formaldehyde resin 68002-20-0
Triethylamine 121-44-8
Isopropanol 67-63-0
Ethylene glycol 107-21-1
Methanol 67-56-1
n-Butanol 71-36-3
Formaldehyde 50-00-0

New Jersey Right To Know Components : Modified Alkyd Resin -
Water 7732-18-5
2-Butoxyethanol 111-76-2
Melamine-formaldehyde resin 68002-20-0
Triethylamine 121-44-8

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**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 Formaldehyde

Formaldehyde 50-00-0

WARNING: This product contains a chemical known to the
State of California to cause birth defects or other reproductive
harm.

Methanol

67-56-1

Canadian Environmental Protection Act

Domestic Substances List

DSL Status : We certify that all of the components of this product are listed
on the DSL.

WHMIS Classification : D1A
D1B
D2B
E

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.

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