

ELAN-Plus™ BS-314 Diluent

Version 2

Revision Date 10/22/2010

Print Date 02/06/2013

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : ELAN-Plus™ BS-314 Diluent
Product Use Description : Electrical Insulation

Company : ELANTAS PDG, INC.
5200 North 2nd Street
St. Louis MO 63147

Prepared by : Todd Thomas, Manager Regulatory Affairs
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

SECTION 2. HAZARDS IDENTIFICATION**Emergency Overview**

Form : liquid
Hazard Summary : TOXIC BY INHALATION.
HARMFUL IN CONTACT WITH SKIN.
IRRITATING TO EYES.
UNSTABLE UPON DEPLETION OF INHIBITOR.
FLAMMABLE.

OSHA Regulatory Status

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

Potential Health Effects

Eyes : May cause mild eye irritation.
Direct contact with the product or exposure to vapors or mist may cause stinging, tearing and redness.

Skin : May be slight to moderately irritating if exposed to skin.
Prolonged or repeated skin contact with liquid may cause defatting resulting in drying, redness and possible blistering.

Ingestion : May cause gastrointestinal irritation.

Inhalation : High concentrations of vapors may be irritating to the respiratory tract.
May affect the brain or nervous system, causing dizziness, headache, or nausea.

Chronic Exposure : Repeated excessive exposure to this product may cause

ELAN-Plus™ BS-314 Diluent

Version 2

Revision Date 10/22/2010

Print Date 02/06/2013

central nervous system, liver, or kidney effects and respiratory or eye irritation.
Vinyl toluene has been shown to cause harm to the fetus in laboratory animal studies

Aggravated Medical Condition : Respiratory disorders
Skin disorders
Kidney disorders
Liver disorders

Primary Routes of Entry : Inhalation
Skin contact

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.

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

Environmental Effects

Environmental Effects : No information available.

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

Solvent Blend

Hazardous components

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

Component	CAS-No.	Weight percent
Allyl phthalate	131-17-9	30.00 - 60.00
Vinyl toluene	25013-15-4	30.00 - 60.00

ELAN-Plus™ BS-314 Diluent

Version 2

Revision Date 10/22/2010

Print Date 02/06/2013

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. FIRE-FIGHTING MEASURES**Flammable properties**

- Flash point : 53 °C (127 °F)
Method: Estimated value
- 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.

ELAN-Plus™ BS-314 Diluent

Version 2

Revision Date 10/22/2010

Print Date 02/06/2013

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 (NOx)

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.

ELAN-Plus™ BS-314 Diluent

Version 2

Revision Date 10/22/2010

Print Date 02/06/2013

Prevent repeated or prolonged breathing of vapor or spray mist.

Storage

Advice on common storage : Do not store above 25°C (77 °F).
To minimize the possibility of polymerization and to maintain product quality, the ideal storage temperature is less than 25 °C. Above 25 °C, this material must be monitored closely.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Exposure Guidelines****Components with workplace control parameters**

Components	CAS-No.	Value	Control parameters	Update	Basis
Vinyl toluene	25013-15-4	TWA	50 ppm	2007-01-01	ACGIH
		STEL	100 ppm	2007-01-01	ACGIH
		TWA	100 ppm 480 mg/m3	1997-08-04	OSHA P1
		TWA	100 ppm 480 mg/m3	1989-01-19	OSHA P0
		TWA	100 ppm 480 mg/m3	2005-09-01	NIOSH REL

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.

ELAN-Plus™ BS-314 Diluent

Version 2

Revision Date 10/22/2010

Print Date 02/06/2013

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 vapor.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Form	: liquid
Odor Threshold	: no data available
Flash point	: 53 °C (127 °F) Method: Estimated value
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
Boiling point	: no data available
Vapour pressure	: no data available
Evaporation rate	: no data available
Density	: 1.1073 g/cm ³ at 25 °C (77 °F) (1.013 hPa)
Bulk density	: 1,017 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

ELAN-Plus™ BS-314 Diluent

Version 2

Revision Date 10/22/2010

Print Date 02/06/2013

Hazardous decomposition products : Carbon dioxide, carbon monoxide and toxic vapors.
Chemical stability : Hazardous polymerization may occur upon depletion of inhibitor.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity (Component) : Component: 131-17-9 Allyl phthalate
LD50 rat
Dose: 770 mg/kg

Component: 25013-15-4 Vinyl toluene
LD50 rat
Dose: 4,000 mg/kg

Acute dermal toxicity (Component) : Component: 131-17-9 Allyl phthalate
LD50 rabbit
Dose: 2,800 mg/kg

Acute inhalation toxicity (Component) : Component: 25013-15-4 Vinyl toluene
LC50 mouse
Dose: 3020 ppm

Skin irritation (Component) : Component: 25013-15-4 Vinyl toluene
rabbit
Result: Moderate skin irritation

Eye irritation(Component) : Component: 131-17-9 Allyl phthalate
rabbit
Result: Moderate eye irritation

Component: 25013-15-4 Vinyl toluene
rabbit
Result: Mild eye irritation

SECTION 12. ECOLOGICAL INFORMATION

Additional ecological information (Product) : no data available

Component:
Allyl phthalate 131-17-9

Toxicity to fish:
LC50
Species: Oncorhynchus mykiss (rainbow trout)
Dose: 0.23 mg/l
Exposure time: 96 h

Toxicity to fish:

ELAN-Plus™ BS-314 Diluent

Version 2

Revision Date 10/22/2010

Print Date 02/06/2013

		LC50 Species: Oryzias latipes (Orange-red killifish) Dose: 0.44 mg/l Exposure time: 96 h
Vinyl toluene	25013-15-4	<u>Toxicity to fish:</u> static test NOEC Species: guppy Dose: 1,000 mg/l Exposure time: 96 h Method:

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	UN Number	: 1263
	Proper shipping name	: Paint related material
	Class	: 3
	Packing group	: III
IATA	UN Number	: 1263
	Description of the goods	: Paint related material
	Class	: 3
	Packing group	: III
	ICAO-Labels	: 3
	Packing instruction (cargo aircraft)	: 310
	Packing instruction (passenger aircraft)	: 309
	Package Instruction (Limited quantity)	: Y309
IMDG	UN Number	: UN 1263
	Description of the goods	: Paint related material
	Class	: 3
	Packing group	: III
	IMDG-Labels	: 3

ELAN-Plus™ BS-314 Diluent

Version 2

Revision Date 10/22/2010

Print Date 02/06/2013

Marine pollutant : no

SECTION 15. REGULATORY INFORMATION

HMIS Classification : Health hazard: 2
Chronic Health Hazard: *
Flammability: 2
Reactivity: 1
PPI: Safety Glasses, Gloves, Dust and Vapor Respirator

National Fire Protection Association (NFPA) Class : II

Emergency Planning Community Right-To-Know (EPCRA)

SARA 302 Components : SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

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

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.
Section 4 / 12(b): Vinyl Toluene (25013-15-4)

Clean Air Act & Related Information

Non-volatile (Wt) : 0 %
Method: Not available

Non-volatile information is not a specification.

Hazardous Air Pollutants

ELAN-Plus™ BS-314 Diluent

Version 2

Revision Date 10/22/2010

Print Date 02/06/2013

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 : Allyl phthalate 131-17-9
Vinyl toluene 25013-15-4

Pennsylvania Right To Know Components : Allyl phthalate 131-17-9
Vinyl toluene 25013-15-4

New Jersey Right To Know Components : Allyl phthalate 131-17-9
Vinyl toluene 25013-15-4

New Jersey Trade Secret Registry Number for the product (NJ TSRN) : NOT APPLICABLE

California Prop. 65 Components : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

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 : B3

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

ELAN-Plus™ BS-314 Diluent

Version 2

Revision Date 10/22/2010

Print Date 02/06/2013

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.