

**ELAN-Plus™ BS-10421 Reducer**

Version 3

Revision Date 10/29/2012

Print Date 11/07/2012

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : ELAN-Plus™ BS-10421 Reducer  
Product Use Description : Resin Reducer

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](http://www.elantas.com)  
E-mail address : [Todd.Thomas@altana.com](mailto:Todd.Thomas@altana.com)  
Emergency telephone number : INFOTRAC - 1-800-535-5053

**SECTION 2. HAZARDS IDENTIFICATION****Emergency Overview**

Form : liquid  
Hazard Summary : HARMFUL BY INHALATION.  
IRRITATING TO EYES AND SKIN.  
FLAMMABLE.  
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 : 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.

Inhalation : Breathing high concentrations of vapors or mist may cause

**ELAN-Plus™ BS-10421 Reducer**

Version 3

Revision Date 10/29/2012

Print Date 11/07/2012

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** : Absorption of ingredients (solvents) by inhalation and/or repeated skin contact may cause injury to the liver/kidney. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. 2-Butoxyethanol is considered fetotoxic; has caused toxic reproductive effects in laboratory animals at maternally toxic doses.

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

**Primary Routes of Entry** : Inhalation  
Skin contact  
Skin absorption  
Eyes

**Target Organs** : Eyes  
Skin  
Respiratory Tract  
Kidney  
Liver

**Carcinogenicity:**

|      |              |          |
|------|--------------|----------|
| IARC | Ethylbenzene | 100-41-4 |
|------|--------------|----------|

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 |
|       | Ethylbenzene    | 100-41-4 |

**Environmental Effects**

**ELAN-Plus™ BS-10421 Reducer**

Version 3

Revision Date 10/29/2012

Print Date 11/07/2012

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 |
|-----------------|-----------|----------------|
| Xylene          | 1330-20-7 | 30.00 - 60.00  |
| 2-Butoxyethanol | 111-76-2  | 10.00 - 30.00  |
| Ethylbenzene    | 100-41-4  | 10.00 - 30.00  |
| Ethylene glycol | 107-21-1  | 0.10 - 1.00    |

**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.

**ELAN-Plus™ BS-10421 Reducer**

Version 3

Revision Date 10/29/2012

Print Date 11/07/2012

**SECTION 5. FIREFIGHTING MEASURES****Flammable properties**

- Flash point : 26 °C (79 °F)  
Method: ASTM D 93  
Tested
- 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 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.
- 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.

**ELAN-Plus™ BS-10421 Reducer**

Version 3

Revision Date 10/29/2012

Print Date 11/07/2012

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.  
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 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   |
|------------|-----------|-------|--------------------|------------|---------|
| Xylene     | 1330-20-7 | TWA   | 100 ppm            | 2007-01-01 | ACGIH   |
|            |           | STEL  | 150 ppm            | 2007-01-01 | ACGIH   |
|            |           | TWA   | 100 ppm            | 1997-08-04 | OSHA P1 |

**ELAN-Plus™ BS-10421 Reducer**

Version 3

Revision Date 10/29/2012

Print Date 11/07/2012

|                 |          |      |                      |            |           |
|-----------------|----------|------|----------------------|------------|-----------|
|                 |          |      | 435 mg/m3            |            |           |
| 2-Butoxyethanol | 111-76-2 | TWA  | 20 ppm               | 2007-01-01 | ACGIH     |
|                 |          | TWA  | 50 ppm<br>240 mg/m3  | 1997-08-04 | OSHA P1   |
|                 |          | TWA  | 5 ppm<br>24 mg/m3    | 2005-09-01 | NIOSH REL |
| Ethylbenzene    | 100-41-4 | TWA  | 100 ppm              | 2009-01-01 | ACGIH     |
|                 |          | TWA  | 20 ppm               | 2012-01-01 | ACGIH     |
|                 |          | TWA  | 100 ppm<br>435 mg/m3 | 1997-08-04 | OSHA P1   |
|                 |          | TWA  | 100 ppm<br>435 mg/m3 | 1989-01-19 | OSHA P0   |
|                 |          | STEL | 125 ppm<br>545 mg/m3 | 1989-01-19 | OSHA P0   |
| Ethylene glycol | 107-21-1 | C    | 100 mg/m3            | 2007-01-01 | ACGIH     |

**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

**ELAN-Plus™ BS-10421 Reducer**

Version 3

Revision Date 10/29/2012

Print Date 11/07/2012

- |                          |   |   |
|--------------------------|---|---|
| Skin and body protection | : | Impervious clothing<br>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.<br>Do not get on skin.<br>Avoid prolonged or repeated breathing of vapor.<br>Wash thoroughly after handling.  |

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

- |  |   |  |
|--|---|--|
| Form                                   | : | liquid                                       |
| Odor Threshold                         | : | no data available                            |
| Flash point                            | : | 26 °C (79 °F)<br>Method: ASTM D 93<br>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                            |
| Boiling point                          | : | no data available                            |
| Vapour pressure                        | : | no data available                            |
| Evaporation rate                       | : | no data available                            |
| Density                                | : | 0.8768 g/cm3<br>at 25 °C (77 °F) (1,013 hPa) |
| Bulk density                           | : | 877 kg/m3                                    |
| Partition coefficient: n-octanol/water | : | no data available                            |
| Relative vapor 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<br>Acids                                  |
| Hazardous decomposition | : | Thermal decomposition and burning may produce carbon              |

Version 3                      Revision Date 10/29/2012                      Print Date 11/07/2012

Print Date 11/07/2012

Chemical stability : Stable

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

Component: 111-76-2 2-Butoxyethanol  
LD50 rat  
Dose: 530 mg/kg  
LD50 rabbit  
Dose: 520 mg/kg

|                                      |   |
|--------------------------------------|---|
| Acute dermal toxicity<br>(Component) | : Component: 1330-20-7 Xylene<br>LD50 rabbit<br>Dose: 1,700 mg/kg                                       |
|                                      | Component: 111-76-2 2-Butoxyethanol<br>LD50 rabbit<br>Dose: 220 mg/kg<br>LD50 rabbit<br>Dose: 100 mg/kg |

Component: 107-21-1 Ethylene glycol  
LD50 rabbit  
Dose: 9.53 mg/kg

Component: 111-76-2 2-Butoxyethanol  
LC50 rat  
Dose: 468 ppm  
Exposure time: 4 h



**ELAN-Plus™ BS-10421 Reducer**

Version 3

Revision Date 10/29/2012

Print Date 11/07/2012

|                             |   |
|-----------------------------|---|
|                             | Component: 100-41-4 Ethylbenzene<br>LC50<br>no data available   |
|                             | Component: 107-21-1 Ethylene glycol<br>LC50 mouse<br>Dose: > 200 mg/l<br>Exposure time: 2.00 h          |
| Skin irritation (Component) | : Component: 1330-20-7 Xylene<br>rabbit<br>Result: Moderate skin irritation                             |
|                             | Component: 111-76-2 2-Butoxyethanol<br>rabbit<br>Result: Moderate skin irritation                       |
|                             | Component: 100-41-4 Ethylbenzene<br>rabbit<br>Result: Moderate skin irritation                          |
|                             | Component: 107-21-1 Ethylene glycol<br>rabbit<br>Result: Mild skin irritation                           |
| Eye irritation(Component)   | : Component: 1330-20-7 Xylene<br>rabbit<br>Result: Eye irritation                                       |
|                             | Component: 111-76-2 2-Butoxyethanol<br>rabbit<br>Result: Eye irritation                                 |
|                             | Component: 100-41-4 Ethylbenzene<br>rabbit<br>Result: Moderate eye irritation                           |
|                             | Component: 107-21-1 Ethylene glycol<br>rabbit<br>Result: Moderate eye irritation<br>Method: Draize Test |

**SECTION 12. ECOLOGICAL INFORMATION**

Additional ecological  
information (Product) : no data available

**ELAN-Plus™ BS-10421 Reducer**

Version 3

Revision Date 10/29/2012

Print Date 11/07/2012

**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  
Emergency Response : 128  
Guidebook Number

**IATA** UN Number : 1263  
Description of the goods : Paint related material  
Class : 3  
Packing group : III  
ICAO-Labels : 3  
Packing instruction (cargo aircraft) : 366  
Packing instruction (passenger aircraft) : 355  
Package Instruction (Limited quantity) : Y344

**IMDG** UN Number : UN 1263  
Description of the goods : Paint related material  
Class : 3  
Packing group : III  
IMDG-Labels : 3  
Marine Pollutant : no

**SECTION 15. REGULATORY INFORMATION**

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

**ELAN-Plus™ BS-10421 Reducer**

Version 3

Revision Date 10/29/2012

Print Date 11/07/2012

**National Fire Protection Association (NFPA) Class** : IC

**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.

|                            |                 |           |       |
|----------------------------|-----------------|-----------|-------|
| <b>SARA 313 Components</b> | : Xylene        | 1330-20-7 | 55.1% |
|                            | 2-Butoxyethanol | 111-76-2  | 29.8% |
|                            | Ethylbenzene    | 100-41-4  | 14.0% |

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

**CERCLA Reportable Quantity** : 181 lbs Xylene 1330-20-7

**SARA 302 Reportable Quantity** : This material does not contain any components with a SARA 302 RQ.

**SARA 304 Reportable Quantity** : This material does not contain any components with a section 304 EHS RQ.

**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).

:

**Clean Air Act & Related Information**

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

Non-volatile information is not a specification.

**Hazardous Air Pollutants**

|                 |           |
|-----------------|-----------|
| Xylene          | 1330-20-7 |
| Ethylbenzene    | 100-41-4  |
| Ethylene glycol | 107-21-1  |

**ELAN-Plus™ BS-10421 Reducer**

Version 3

Revision Date 10/29/2012

Print Date 11/07/2012

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**

|                                    |   |      |           |
|------------------------------------|---|------|-----------|
| <b>EPA Hazardous Waste Code(s)</b> | : | D001 | Ignitable |
|                                    |   | D018 | Benzene   |

**State Laws**

|   |   |                 |           |
|---|---|-----------------|-----------|
| <b>Massachusetts Right To Know Components</b> | : | Xylene          | 1330-20-7 |
|   |   | 2-Butoxyethanol | 111-76-2  |
|   |   | Ethylbenzene    | 100-41-4  |
|   |   | Benzene         | 71-43-2   |

|  |   |                 |           |
|--|---|-----------------|-----------|
| <b>Pennsylvania Right To Know Components</b> | : | Xylene          | 1330-20-7 |
|  |   | 2-Butoxyethanol | 111-76-2  |
|  |   | Ethylbenzene    | 100-41-4  |
|  |   | Toluene         | 108-88-3  |
|  |   | Cumene          | 98-82-8   |
|  |   | Ethylene glycol | 107-21-1  |
|  |   | Benzene         | 71-43-2   |
|  |   | n-Butanol       | 71-36-3   |

|  |   |                 |           |
|--|---|-----------------|-----------|
| <b>New Jersey Right To Know Components</b> | : | Xylene          | 1330-20-7 |
|  |   | 2-Butoxyethanol | 111-76-2  |
|  |   | Ethylbenzene    | 100-41-4  |
|  |   | Toluene         | 108-88-3  |

|  |   |                |
|--|---|----------------|
| <b>New Jersey Trade Secret Registry Number for the product (NJ TSRN)</b> | : | NOT APPLICABLE |
|--|---|----------------|

|                                       |   |   |
|---------------------------------------|---|---|
| <b>California Prop. 65 Components</b> | : | WARNING! This product contains a chemical known to the State of California to cause cancer.                                   |
|                                       |   | Contains or Trace concentrations Benzene  |
|                                       |   | Ethylbenzene 100-41-4   |
|                                       |   | Cumene 98-82-8  |
|                                       |   | 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  |

**ELAN-Plus™ BS-10421 Reducer**

Version 3

Revision Date 10/29/2012

Print Date 11/07/2012

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.

**WHMIS Classification**: D1A  
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.