

ELAN-Plus™ BS-107 Reducer

Version 3

Revision Date 10/26/2012

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SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : ELAN-Plus™ BS-107 Reducer
Product Use Description : Resin Reducer

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

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SECTION 2. HAZARDS IDENTIFICATION**Emergency Overview**

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

Inhalation : Breathing high concentrations of vapors or mist may cause upper respiratory tract irritation and may be associated with cardiac irregularities.

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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.

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:

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.

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 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 known or anticipated carcinogen by NTP.

ACGIH	Ethylbenzene	100-41-4
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ACGIH	Ethylbenzene	100-41-4
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Environmental Effects

Environmental Effects : No information available.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS
Chemical nature

Mixed Xylenes

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	60.00 - 100.00
Ethylbenzene	100-41-4	10.00 - 30.00

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.

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SECTION 5. FIREFIGHTING MEASURES**Flammable properties**

- Flash point : 27 °C (81 °F)
Method: Literature 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 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.
- Additional advice : Shut off source of spill if it can be done safely.

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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 435 mg/m3	1997-08-04	OSHA P1

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Ethylbenzene	100-41-4	TWA	100 ppm	2009-01-01	ACGIH
		TWA	20 ppm	2012-01-01	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

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Form	: liquid
Odor Threshold	: no data available
Flash point	: 27 °C (81 °F) Method: Literature 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	: 8.700 g/cm ³ at 20 °C (68 °F) (1.013 hPa)
Bulk density	: 870 kg/m ³
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 Reducing agents
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
Acute dermal toxicity (Component)	: Component: 1330-20-7 Xylene LD50 rabbit Dose: 1,700 mg/kg

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	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.

SECTION 14. TRANSPORT INFORMATION

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DOT	UN Number	:	1307
	Proper shipping name	:	XYLENES
	Class	:	3
	Packing group	:	III
IATA	UN Number	:	1307
	Description of the goods	:	XYLENES
	Class	:	3
	Packing group	:	III
	ICAO-Labels	:	3
	Packing instruction (cargo aircraft)	:	366
	Packing instruction (passenger aircraft)	:	355
IMDG	UN Number	:	UN 1307
	Description of the goods	:	XYLENES
	Class	:	3
	Packing group	:	III
	IMDG-Labels	:	3
	EmSNumber1	:	F-E
	EmSNumber2	:	S-D
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 : 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.

SARA 313 Components	:	Xylene	1330-20-7	78.8%
	:	Ethylbenzene	100-41-4	20.0%

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

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Fire Hazard

CERCLA Reportable Quantity : 127 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).

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

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

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

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Pennsylvania Right To Know Components	:	Xylene	1330-20-7
		Ethylbenzene	100-41-4
		Toluene	108-88-3
		Cumene	98-82-8
		Benzene	71-43-2
New Jersey Right To Know Components	:	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
		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
		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	:	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

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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.