

**ELAN-Tron® C 49 Hardener**

Version 3

Revision Date 06/11/2015

Print Date 06/11/2015

**SECTION 1. IDENTIFICATION**

Product name : ELAN-Tron® C 49 Hardener

**Manufacturer or supplier's details**

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

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

**Recommended use of the chemical and restrictions on use**

Recommended use : Adhesive

Restrictions on use : Refer to Section 15 for any restrictions that may apply

**SECTION 2. HAZARDS IDENTIFICATION****GHS Classification**

Flammable liquids : Category 4

Skin irritation : Category 2

Serious eye damage : Category 1

Respiratory sensitisation : Category 1

Skin sensitisation : Category 1

Carcinogenicity : Category 2

Reproductive toxicity : Category 2

Specific target organ toxicity - single exposure : Category 3 (Respiratory system)

**GHS Label element**

Hazard pictograms :



Signal word : Danger

Hazard statements : H227 Combustible liquid.  
H315 Causes skin irritation.

**ELAN-Tron® C 49 Hardener**

Version 3

Revision Date 06/11/2015

Print Date 06/11/2015

H317 May cause an allergic skin reaction.  
 H318 Causes serious eye damage.  
 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
 H335 May cause respiratory irritation.  
 H351 Suspected of causing cancer.  
 H361 Suspected of damaging fertility or the unborn child.

## Precautionary statements

: **Prevention:**

P201 Obtain special instructions before use.  
 P202 Do not handle until all safety precautions have been read and understood.  
 P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
 P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
 P264 Wash skin thoroughly after handling.  
 P271 Use only outdoors or in a well-ventilated area.  
 P272 Contaminated work clothing should not be allowed out of the workplace.  
 P280 Wear protective gloves/ eye protection/ face protection.  
 P281 Use personal protective equipment as required.  
 P285 In case of inadequate ventilation wear respiratory protection.

**Response:**

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
 P304 + P340 + P312 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.  
 P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.  
 P308 + P313 IF exposed or concerned: Get medical advice/ attention.  
 P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.  
 P362 Take off contaminated clothing and wash before reuse.  
 P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

**Storage:**

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  
 P403 + P235 Store in a well-ventilated place. Keep cool.  
 P405 Store locked up.

**Disposal:**

P501 Dispose of contents/ container to an approved waste disposal plant.

**Other hazards**

None known.

**ELAN-Tron® C 49 Hardener**

Version 3

Revision Date 06/11/2015

Print Date 06/11/2015

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

Chemical nature : Modified Aliphatic Amine

**Hazardous components**

Component	CAS-No.	Concentration (%)
Aluminum oxide	1344-28-1	>= 71 - < 72
Triethylenetetramine	112-24-3	>= 1 - < 2
Xylene	1330-20-7	>= 1 - < 2
Diethylenetriamine	111-40-0	>= 0 - < 1
Bisphenol A	80-05-7	>= 0 - < 1
n-Butyl glycidyl ether	2426-08-6	>= 0 - < 1
Ethylbenzene	100-41-4	>= 0 - < 1

**SECTION 4. FIRST AID MEASURES**

- General advice : Move out of dangerous area.  
 Consult a physician.  
 Show this safety data sheet to the doctor in attendance.  
 Do not leave the victim unattended.
- If inhaled : Call a physician or poison control centre immediately.  
 If unconscious place in recovery position and seek medical advice.
- In case of skin contact : If skin irritation persists, call a physician.  
 If on skin, rinse well with water.  
 If on clothes, remove clothes.
- In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.  
 In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
 Continue rinsing eyes during transport to hospital.  
 Remove contact lenses.  
 Protect unharmed eye.  
 Keep eye wide open while rinsing.  
 If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.  
 Do NOT induce vomiting.  
 Do not give milk or alcoholic beverages.  
 Never give anything by mouth to an unconscious person.  
 If symptoms persist, call a physician.

**ELAN-Tron® C 49 Hardener**

Version 3

Revision Date 06/11/2015

Print Date 06/11/2015

Take victim immediately to hospital.

**SECTION 5. FIREFIGHTING MEASURES**

- Suitable extinguishing media : Carbon dioxide (CO<sub>2</sub>)
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored separately in closed containments. Use a water spray to cool fully closed containers.
- Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment. Ensure adequate ventilation.
- Environmental precautions : Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up : Absorb with inert absorbent material and dispose of in accordance with applicable regulations.
- Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Keep in suitable, closed containers for disposal.

**SECTION 7. HANDLING AND STORAGE**

- Advice on safe handling : Avoid formation of aerosol. Do not breathe vapours/dust. Avoid exposure - obtain special instructions before use.

**ELAN-Tron® C 49 Hardener**

Version 3

Revision Date 06/11/2015

Print Date 06/11/2015

Avoid contact with skin and eyes.  
 For personal protection see section 8.  
 Smoking, eating and drinking should be prohibited in the application area.  
 Provide sufficient air exchange and/or exhaust in work rooms.  
 To avoid spills during handling keep bottle on a metal tray.  
 Dispose of rinse water in accordance with local and national regulations.  
 Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Conditions for safe storage : Store under conditions specified on the product Technical Data Sheet to maintain product quality.  
 No smoking.  
 Keep container tightly closed in a dry and well-ventilated place.  
 Observe label precautions.  
 Electrical installations / working materials must comply with the technological safety standards.

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

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Aluminum oxide	1344-28-1	TWA (Total)	10 mg/m <sup>3</sup>	OSHA P0
		TWA (Respirable fraction)	5 mg/m <sup>3</sup>	OSHA P0
		TWA (Respirable fraction)	1 mg/m <sup>3</sup>	ACGIH
Triethylenetetramine	112-24-3	TWA	1 ppm	US WEEL
Xylene	1330-20-7	TWA	100 ppm 435 mg/m <sup>3</sup>	OSHA Z-1
		STEL	150 ppm 655 mg/m <sup>3</sup>	OSHA P0
		TWA	100 ppm 435 mg/m <sup>3</sup>	OSHA P0
		TWA	100 ppm	ACGIH
		STEL	150 ppm	ACGIH
Diethylenetriamine	111-40-0	TWA	1 ppm	ACGIH
		TWA	1 ppm 4 mg/m <sup>3</sup>	OSHA P0
n-Butyl glycidyl ether	2426-08-6	TWA	3 ppm	ACGIH

**ELAN-Tron® C 49 Hardener**

Version 3

Revision Date 06/11/2015

Print Date 06/11/2015

		TWA	50 ppm 270 mg/m3	OSHA Z-1
		C	5.6 ppm 30 mg/m3	NIOSH REL
Ethylbenzene	100-41-4	TWA	20 ppm	ACGIH
		TWA	100 ppm 435 mg/m3	OSHA Z-1
		TWA	100 ppm 435 mg/m3	OSHA P0
		STEL	125 ppm 545 mg/m3	OSHA P0

**Engineering measures** : Use with adequate ventilation.  
 All application areas should be ventilated in accordance with applicable OSHA regulations. (29 CFR 1910.94)  
 This product contains a particulate(s) that is considered hazardous per OSHA (29 CFR 1910.1200) and is listed in Section III as a precautionary warning.  
 Under normal conditions of use, this product as supplied does not pose a health risk from particulate matter.  
 Physical degradation of the cured product (i.e. sanding, abrading, etc.) may pose a dust hazard.  
 Repeated inhalation of such dust may cause lung injury.

**Personal protective equipment**

**Respiratory protection** : In the case of vapour formation use a respirator with an approved filter.

**Hand protection**  
**Remarks** : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

**Eye protection** : Eye wash bottle with pure water  
 Tightly fitting safety goggles  
 Wear face-shield and protective suit for abnormal processing problems.

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

**Hygiene measures** : When using do not eat or drink.  
 When using do not smoke.  
 Wash hands before breaks and at the end of workday.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance** : liquid

**ELAN-Tron® C 49 Hardener**

Version 3

Revision Date 06/11/2015

Print Date 06/11/2015

Odour Threshold	: No data available
pH	: No data available
Melting point/freezing point	: No data available
Initial boiling point and boiling range	: No data available
Flash point	: 143.6 °F (62.0 °C) Method: ASTM D 93, closed cup
Evaporation rate	: No data available
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapour pressure	: No data available
Relative vapour density	: No data available
Relative Density/Specific Gravity	: No data available
Density	: 2.0710 g/cm <sup>3</sup> (77 °F (25 °C))
Solubility(ies)	
Water solubility	: No data available
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: No data available
Thermal decomposition	: No data available
Viscosity	
Viscosity, dynamic	: No data available
Viscosity, kinematic	: Greater than 22 mm <sup>2</sup> /s (104 °F (40 °C))

**SECTION 10. STABILITY AND REACTIVITY**

Reactivity : No decomposition if stored and applied as directed.

**ELAN-Tron® C 49 Hardener**

Version 3

Revision Date 06/11/2015

Print Date 06/11/2015

Chemical stability : No decomposition if stored and applied as directed.

Possibility of hazardous reactions : No decomposition if stored and applied as directed.

Vapours may form explosive mixture with air.

Conditions to avoid : Heat, flames and sparks.

**SECTION 11. TOXICOLOGICAL INFORMATION**
**Information on likely routes of exposure**
**Acute toxicity**
**Product:**

Acute oral toxicity : Acute toxicity estimate : > 5,000 mg/kg  
 Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate : > 30000 ppm  
 Exposure time: 4 h  
 Test atmosphere: gas  
 Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate : > 5,000 mg/kg  
 Method: Calculation method

**Components:**
**1344-28-1 Aluminum oxide:**

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 5.38 mg/l

**112-24-3 Triethylenetetramine:**

Acute oral toxicity : LD50 (Rat): 2,500 mg/kg

Acute dermal toxicity : LD50 (Rabbit): 805 mg/kg

**1330-20-7 Xylene:**

Acute oral toxicity : LD50 (Rat): 3,523 mg/kg

Acute inhalation toxicity : LC50 (Rat): 5000 ppm  
 Exposure time: 4 h

Acute dermal toxicity : LD50 (Rabbit): 1,700 mg/kg

**111-40-0 Diethylenetriamine:**

Acute oral toxicity : LD50 (Rat): 1,080 mg/kg

**ELAN-Tron® C 49 Hardener**

Version 3

Revision Date 06/11/2015

Print Date 06/11/2015

Acute inhalation toxicity : LC50 : Remarks: No data available

Acute dermal toxicity : LD50 (Rabbit): 1,050 mg/kg

**2426-08-6 n-Butyl glycidyl ether:**

Acute oral toxicity : LD50 (Mouse): 1,530 mg/kg

Acute inhalation toxicity : LC50 (Mouse): 260 ppm  
Exposure time: 8.00 h

Acute dermal toxicity : LD50 (Rat): &gt; 2,150 mg/kg

**100-41-4 Ethylbenzene:**

Acute oral toxicity : LD50 (Rat): 3,500 mg/kg

Acute dermal toxicity : LD50 (Rabbit): 5,510 mg/kg

**Skin corrosion/irritation****Product:**

Remarks: Extremely corrosive and destructive to tissue.

**Components:****1344-28-1 Aluminum oxide:**

Species: Rabbit

Result: Moderate skin irritation

**112-24-3 Triethylenetetramine:**

Method: OECD Test Guideline 435

Result: Corrosive

**1330-20-7 Xylene:**

Species: Rabbit

Result: Moderate skin irritation

**111-40-0 Diethylenetriamine:**

Species: Rabbit

Result: Corrosive to skin

**80-05-7 Bisphenol A:**

Species: Rabbit

Method: OECD Test Guideline 404

Result: No skin irritation

GLP: yes

**2426-08-6 n-Butyl glycidyl ether:**

Species: Rabbit

Method: Draize Test

Result: Moderate skin irritation

**ELAN-Tron® C 49 Hardener**

Version 3

Revision Date 06/11/2015

Print Date 06/11/2015

**100-41-4 Ethylbenzene:**

Species: Rabbit

Result: Moderate skin irritation

**Serious eye damage/eye irritation****Product:**

Remarks: May cause irreversible eye damage.

**Components:****1344-28-1 Aluminum oxide:**

Species: Rabbit

Result: Eye irritation

**112-24-3 Triethylenetetramine:**

Species: Rabbit

Result: Corrosive to eyes

**1330-20-7 Xylene:**

Species: Rabbit

Result: Eye irritation

**111-40-0 Diethylenetriamine:**

Species: Rabbit

Result: Corrosive to eyes

**80-05-7 Bisphenol A:**

Species: Rabbit

Result: Risk of serious damage to eyes.

Method: OECD Test Guideline 405

GLP: yes

**2426-08-6 n-Butyl glycidyl ether:**

Species: Rabbit

Result: Severe eye irritation

Method: Draize Test

**100-41-4 Ethylbenzene:**

Species: Rabbit

Result: Moderate eye irritation

**Respiratory or skin sensitisation****Product:**

Remarks: Causes sensitisation.

**Components:****112-24-3 Triethylenetetramine:**

Test Type: Buehler Test

**ELAN-Tron® C 49 Hardener**

Version 3

Revision Date 06/11/2015

Print Date 06/11/2015

Exposure routes: Dermal  
 Species: Guinea pig  
 Method: OECD Test Guideline 406  
 Result: May cause sensitisation by skin contact.  
 GLP: yes

**111-40-0 Diethylenetriamine:**

Test Type: Maximisation Test (GPMT)  
 Exposure routes: Dermal  
 Species: Guinea pig  
 Method: OECD Test Guideline 406  
 Result: May cause sensitisation by skin contact.  
 GLP: yes

**2426-08-6 n-Butyl glycidyl ether:**

Remarks: No data available

**Carcinogenicity**

<b>IARC</b>	Group 2B: Possibly carcinogenic to humans	
	Ethylbenzene	100-41-4
<b>ACGIH</b>	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.	
<b>OSHA</b>	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.	
<b>NTP</b>	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.	

**Further information**
**Product:**

Remarks: No data available

**SECTION 12. ECOLOGICAL INFORMATION**
**Ecotoxicity**
**Components:**
**111-40-0 Diethylenetriamine:**

Toxicity to fish : LC50 (Poecilia reticulata (guppy)): 430 mg/l  
 Exposure time: 96 h  
 Test Type: semi-static test

**ELAN-Tron® C 49 Hardener**

Version 3

Revision Date 06/11/2015

Print Date 06/11/2015

GLP: yes

Toxicity to algae : ErC50 (Selenastrum capricornutum (green algae)): 1,164 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201  
GLP: yes

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 5.6 mg/l  
Exposure time: 21 d  
End point: Reproduction  
Test Type: semi-static test  
GLP: yes

**80-05-7 Bisphenol A:**

Toxicity to fish : LC50 (Menidia menidia (Atlantic silverside)): 9.4 mg/l  
Exposure time: 96 h  
Test Type: flow-through test  
Method: OECD Test Guideline 203  
GLP: yes

**Persistence and degradability****Components:****111-40-0 Diethylenetriamine:**

Biodegradability : aerobic  
Result: Readily biodegradable  
Method: OECD Test Guideline 301D  
GLP: yes

**80-05-7 Bisphenol A:**

Biodegradability : aerobic  
Result: Readily biodegradable  
Method: OECD Test Guideline 301F  
GLP: yes

**Bioaccumulative potential****Components:****80-05-7 Bisphenol A:**

Partition coefficient: n-octanol/water : log Pow: 3.4 (21.5 °C)  
pH: 6.4  
Method: OECD Test Guideline 107  
GLP: yes

**Mobility in soil**

No data available

**Other adverse effects**

No data available

**ELAN-Tron® C 49 Hardener**

Version 3

Revision Date 06/11/2015

Print Date 06/11/2015

**Product:**

Regulation : 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances

Remarks : This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological information : No data available

**SECTION 13. DISPOSAL CONSIDERATIONS**
**Disposal methods**

EPA Hazardous Waste Code(s) : D002: Corrosive  
D018: Benzene

Waste from residues : Do not dispose of waste into sewer.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.  
Do not burn, or use a cutting torch on, the empty drum.

**SECTION 14. TRANSPORT INFORMATION**
**International Regulation****IATA-DGR**

UN/ID No. : UN 2735  
Proper shipping name : Amines, liquid, corrosive, n.o.s.  
(Triethylenetetramine)

Class : 8  
Packing group : III  
Labels : Corrosive  
Packing instruction (cargo aircraft) : 856  
Packing instruction (passenger aircraft) : 852

**IMDG-Code**

UN number : UN 2735  
Proper shipping name : AMINES, LIQUID, CORROSIVE, N.O.S.  
(Triethylenetetramine)  
Class : 8

**ELAN-Tron® C 49 Hardener**

Version 3

Revision Date 06/11/2015

Print Date 06/11/2015

Packing group : III  
 Labels : 8  
 EmS Code : F-A, S-B  
 Marine pollutant : no

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable for product as supplied.

**National Regulations**
**49 CFR**

UN/ID/NA number : UN 2735  
 Proper shipping name : Amines, liquid, corrosive, n.o.s.  
 (Triethylenetetramine)  
 Class : 8  
 Packing group : III  
 Labels : Corrosive  
 Marine pollutant : no

**SECTION 15. REGULATORY INFORMATION**
**EPCRA - Emergency Planning and Community Right-to-Know Act**
**CERCLA Reportable Quantity**

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Xylene	1330-20-7	100	6,858

**SARA 304 Extremely Hazardous Substances Reportable Quantity**

Calculated RQ exceeds reasonably attainable upper limit.

**SARA 302 Extremely Hazardous Substances Reportable Quantity**

Calculated RQ exceeds reasonably attainable upper limit.

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

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

**SARA 313** : This product contains the following 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.

Aluminum oxide 1344-28-1 71.1 %

**ELAN-Tron® C 49 Hardener**

Version 3

Revision Date 06/11/2015

Print Date 06/11/2015

Xylene	1330-20-7	1.4 %
Ethylbenzene	100-41-4	.3 %

**Clean Air Act**

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61):

Xylene	1330-20-7	1.4 %
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This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489):

Xylene	1330-20-7	1.4 %
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Non-volatile (Wt) : Refer to the product technical data sheet for VOC information.

**US State Regulations**
**Massachusetts Right To Know**

Aluminum oxide	1344-28-1
Triethylenetetramine	112-24-3
Xylene	1330-20-7
Benzene	71-43-2

**Pennsylvania Right To Know**

Aluminum oxide	1344-28-1
Polyamide polymer	Not Assigned
Triethylenetetramine	112-24-3
Xylene	1330-20-7
Bisphenol A	80-05-7
Ethylbenzene	100-41-4
Toluene	108-88-3

**New Jersey Right To Know**

Aluminum oxide	1344-28-1
Polyamide polymer	Not Assigned
Triethylenetetramine	112-24-3
Xylene	1330-20-7
Ethylbenzene	100-41-4

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

**California Prop 65**

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

Ethylbenzene	100-41-4
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**ELAN-Tron® C 49 Hardener**

Version 3

Revision Date 06/11/2015

Print Date 06/11/2015

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.

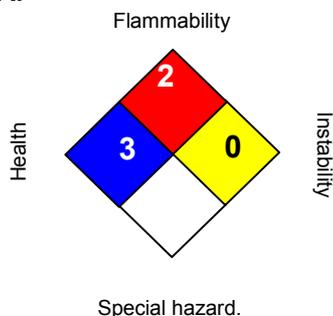
Toluene 108-88-3  
 Benzene 71-43-2

**The components of this product are reported in the following inventories:**

TSCA : 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 4 / 12(b) : Not applicable

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

**SECTION 16. OTHER INFORMATION**
**Further information**
**NFPA:**

**HMIS III:**

<b>HEALTH</b>	<b>3*</b>
<b>FLAMMABILITY</b>	<b>2</b>
<b>PHYSICAL HAZARD</b>	<b>0</b>

0 = not significant, 1 = Slight,  
 2 = Moderate, 3 = High  
 4 = Extreme, \* = Chronic

Revision Date : 06/11/2015

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.