

**ELAN-Tron® C 2006 Yellow Hardener**

Version 8

Revision Date 05/07/2019

Print Date 09/13/2019

**SECTION 1. IDENTIFICATION**

Product name : ELAN-Tron® C 2006 Yellow 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 : This product is for industrial use only. It is not intended for consumer use or retail sale.  
Refer to Section 15 for any restrictions that may apply

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

Acute toxicity (Oral) : Category 4  
Acute toxicity (Inhalation) : Category 4  
Skin corrosion : Category 1B  
Serious eye damage : Category 1  
Skin sensitisation : Category 1  
Carcinogenicity : Category 1B  
Reproductive toxicity : Category 2  
Specific target organ toxicity - repeated exposure (Inhalation) : Category 1 (Respiratory Tract)

**GHS label elements**

Hazard pictograms :



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- Signal word : Danger
- Hazard statements : H302 + H332 Harmful if swallowed or if inhaled.  
H314 Causes severe skin burns and eye damage.  
H317 May cause an allergic skin reaction.  
H350 May cause cancer.  
H361 Suspected of damaging fertility or the unborn child.  
H372 Causes damage to organs (Respiratory Tract) through prolonged or repeated exposure if inhaled.
- Precautionary statements : **Prevention:**  
P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.  
P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
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/ protective clothing/ eye protection/ face protection.  
**Response:**  
P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.  
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.  
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/doctor.  
P308 + P313 IF exposed or concerned: Get medical advice/ attention.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.  
P363 Wash contaminated clothing before reuse.  
**Storage:**  
P405 Store locked up.  
**Disposal:**  
P501 Dispose of contents/ container to an approved waste disposal plant.

**Other hazards**

None known.

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

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Chemical nature : Modified Aliphatic Amine/Alkylphenol Blend

**Hazardous components**

Component	CAS-No.	Concentration (%)
Nonylphenol	84852-15-3	$\geq 74$ - $< 75$
Triethylenetetramine	112-24-3	$\geq 9$ - $< 10$
Phenol, 2-nonyl-, branched	91672-41-2	$\geq 4$ - $< 5$
Ethyleneamine	140-31-8	$\geq 3$ - $< 4$
Phenol, dinonyl-	1323-65-5	$\geq 3$ - $< 4$
Diethylenetriamine	111-40-0	$\geq 3$ - $< 4$
1,1,2-Trichloroethylene	79-01-6	$\geq 0.1$ - $< 1$

**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 : If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.
- In case of skin contact : Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.  
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.  
Take victim immediately to hospital.

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**SECTION 5. FIREFIGHTING MEASURES**

- 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.
- 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.
- 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 : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Keep in suitable, closed containers for disposal.

**SECTION 7. HANDLING AND STORAGE**

- Advice on safe handling : Do not breathe vapours/dust.  
Avoid exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
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.

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Conditions for safe storage : Store under conditions specified on the product Technical Data Sheet to maintain product quality.  
 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
Triethylenetetramine	112-24-3	TWA	1 ppm	US WEEL
Diethylenetriamine	111-40-0	TWA	1 ppm	ACGIH
Diethylenetriamine		TWA	1 ppm 4 mg/m <sup>3</sup>	OSHA P0
1,1,2-Trichloroethylene	79-01-6	TWA	10 ppm	ACGIH
1,1,2-Trichloroethylene		STEL	25 ppm	ACGIH
1,1,2-Trichloroethylene		TWA	100 ppm	OSHA Z-2
1,1,2-Trichloroethylene		CEIL	200 ppm	OSHA Z-2
1,1,2-Trichloroethylene		Peak	300 ppm	OSHA Z-2
1,1,2-Trichloroethylene		TWA	50 ppm 270 mg/m <sup>3</sup>	OSHA P0
1,1,2-Trichloroethylene		STEL	200 ppm 1,080 mg/m <sup>3</sup>	OSHA P0

Hazardous components without workplace control parameters

**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.

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Wash hands before breaks and at the end of workday.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	: liquid
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
Vapour pressure	: No data available
Flash point	: Greater than 201 °F (94 °C) Method: No information available. Information taken from reference works and the literature.
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Evaporation rate	: No data available
Flammability (solid, gas)	: No data available
Relative vapour density	: No data available
Relative Density/Specific Gravity	: No data available
Density	: 0.9682 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
Ignition temperature	: No data available
Thermal decomposition	: No data available

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## 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.

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

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

Conditions to avoid : No data available

Hazardous decomposition products : Carbon monoxide in a fire.  
Nitrogen oxides in a fire.  
Ammonia  
chlorinated compounds**SECTION 11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure****Acute toxicity****Product:**Acute oral toxicity : Acute toxicity estimate : 1,589 mg/kg  
Method: Calculation methodAcute inhalation toxicity : Acute toxicity estimate : 15.39 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: Calculation methodAcute dermal toxicity : Acute toxicity estimate : 2,517 mg/kg  
Method: Calculation method**Components:****84852-15-3 Nonylphenol:**

Acute oral toxicity : LD50 (Rat): 1,882 mg/kg

Acute dermal toxicity : LD50 (Rabbit): 3,160 mg/kg

**112-24-3 Triethylenetetramine:**

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

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

**140-31-8 Ethyleneamine:**Acute oral toxicity : LD50 (Rat, male): 2,097 mg/kg  
GLP: noAcute dermal toxicity : LD50 (Rabbit, male): 866 mg/kg  
GLP: no**111-40-0 Diethylenetriamine:**

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

Acute inhalation toxicity : LC50 : Remarks: No data available

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

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

Remarks: Extremely corrosive and destructive to tissue.

**Components:****84852-15-3 Nonylphenol:**

Result: Corrosive

**112-24-3 Triethylenetetramine:**

Method: OECD Test Guideline 435

Result: Corrosive

**140-31-8 Ethyleneamine:**

Species: Rabbit

Result: Corrosive

**111-40-0 Diethylenetriamine:**

Species: Rabbit

Result: Corrosive to skin

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

Remarks: May cause irreversible eye damage.

**Components:****84852-15-3 Nonylphenol:**

Result: Severe eye irritation

**112-24-3 Triethylenetetramine:**

Species: Rabbit

Result: Corrosive to eyes



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**140-31-8 Ethyleneamine:**

Species: Rabbit

Result: Risk of serious damage to eyes.

**111-40-0 Diethylenetriamine:**

Species: Rabbit

Result: Corrosive to eyes

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

Remarks: Causes sensitisation.

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

Test Type: Buehler Test

Exposure routes: Dermal

Species: Guinea pig

Method: OECD Test Guideline 406

Result: May cause sensitisation by skin contact.

GLP: yes

**140-31-8 Ethyleneamine:**

Test Type: Maximisation Test

Exposure routes: Dermal

Species: Guinea pig

Method: OECD Test Guideline 406

Result: May cause sensitisation by skin contact.

**111-40-0 Diethylenetriamine:**

Test Type: Maximisation Test

Exposure routes: Dermal

Species: Guinea pig

Method: OECD Test Guideline 406

Result: May cause sensitisation by skin contact.

GLP: yes

**Germ cell mutagenicity****Components:****84852-15-3 Nonylphenol:**

Genotoxicity in vitro

: Test Type: Ames test

Result: negative

**Carcinogenicity****IARC**

Group 1: Carcinogenic to humans

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	1,1,2-Trichloroethylene	79-01-6
<b>OSHA</b>	No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.	
<b>NTP</b>	Known to be human carcinogen	
	1,1,2-Trichloroethylene	79-01-6

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

Remarks: No data available

**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity**

No data available

**Persistence and degradability**

No data available

**Bioaccumulative potential**

No data available

**Mobility in soil**

No data available

**Other adverse effects**

No data available

**Product:**

Regulation	40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances
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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).
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Additional ecological information	: No data available
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**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

EPA Hazardous Waste Code(s)	: D040: 1,1,2-Trichloroethylene
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Waste from residues	: Do not dispose of waste into sewer.
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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.

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

UN/ID No. : UN 1760  
Proper shipping name : Corrosive liquid, n.o.s.  
(Nonylphenol, Triethylenetetramine)  
Class : 8  
Packing group : II  
Labels : Corrosive  
Packing instruction (cargo aircraft) : 855  
Packing instruction (passenger aircraft) : 851

**IMDG-Code**

UN number : UN 1760  
Proper shipping name : CORROSIVE LIQUID, N.O.S.  
(NONYLPHENOL, Triethylenetetramine)  
Marine Pollutant : (NONYLPHENOL)  
Class : 8  
Packing group : II  
Labels : 8  
EmS Code : F-A, S-B  
Marine pollutant : yes

**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 1760  
Proper shipping name : Corrosive liquid, n.o.s.  
(Nonylphenol, Triethylenetetramine)  
Class : 8  
Packing group : II  
Labels : Corrosive  
Marine pollutant : no

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**SECTION 15. REGULATORY INFORMATION****EPCRA - Emergency Planning and Community Right-to-Know Act****US. EPA CERCLA Hazardous Substances (40 CFR 302)**

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
1,1,2-Trichloroethylene	79-01-6	100	11819

**SARA 304 - Emergency Release Notification**

Calculated RQ exceeds reasonably attainable upper limit.

**US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III  
Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A)**

Calculated RQ exceeds reasonably attainable upper limit.

**SARA 311/312 Hazards** : Per the June 13, 2016 Federal Register notice, EPA harmonized the EPCRA 311/312 hazard categories with the 2012 OSHA hazard communication standard for classifying and labeling of chemicals (i.e. GHS). Please refer to Section 2 of the SDS to identify the appropriate hazard categories for reporting purposes.

**SARA 302** : The following components are subject to reporting levels established by SARA Title III, Section 302:

Phenol	108-95-2	.8 %
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**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.

Nonylphenol	84852-15-3	74.1 %
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1,1,2-Trichloroethylene	79-01-6	.8 %
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**Clean Air Act**

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

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).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM Intermediate or Final VOC's (40 CFR 60.489).

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Non-volatile (Wt) : Refer to the product technical data sheet for VOC information.

**Massachusetts Right To Know**

Triethylenetetramine	112-24-3
Ethyleneamine	140-31-8
Diethylenetriamine	111-40-0
1,1,2-Trichloroethylene	79-01-6
Phenol	108-95-2

**Pennsylvania Right To Know**


Nonylphenol	84852-15-3
Triethylenetetramine	112-24-3
Phenol, 2-nonyl-, branched	91672-41-2
Ethyleneamine	140-31-8
Phenol, dinonyl-	1323-65-5
Diethylenetriamine	111-40-0
1,1,2-Trichloroethylene	79-01-6
Phenol	108-95-2

**New Jersey Right To Know**

Nonylphenol	84852-15-3
Triethylenetetramine	112-24-3
Phenol, 2-nonyl-, branched	91672-41-2
Ethyleneamine	140-31-8
Phenol, dinonyl-	1323-65-5
Diethylenetriamine	111-40-0
1,1,2-Trichloroethylene	79-01-6
Phenol	108-95-2

**New Jersey Trade Secret** :  
**Registry Number for the**  
**product (NJ TSN)**

**California Prop. 65**

 **WARNING:** This product can expose you to chemicals including 1,1,2-Trichloroethylene, which is/are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**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

**Section 5** : Not applicable

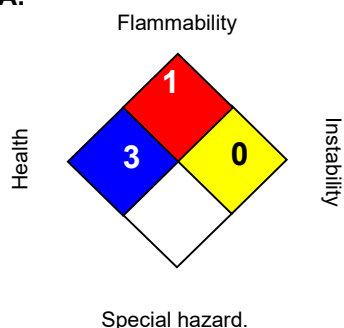
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DSL : We certify that all of the components of this product are listed on the DSL.

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

<b>HEALTH</b>	<b>3*</b>
<b>FLAMMABILITY</b>	<b>1</b>
<b>PHYSICAL HAZARD</b>	<b>0</b>

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

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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.