

**RanVar™ TR-308B Hardener**

Version 3

Revision Date 06/01/2016

Print Date 06/01/2016

**SECTION 1. IDENTIFICATION**

Product name : RanVar™ TR-308B 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 : Electrical Insulation

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

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

Acute toxicity (Dermal) : Category 4

Skin corrosion : Category 1B

Serious eye damage : Category 1

Respiratory sensitisation : Category 1

Skin sensitisation : Category 1

Reproductive toxicity : Category 1B

Effects on or via lactation :

**GHS label elements**

Hazard pictograms :



Signal word : Danger

Hazard statements : H312 Harmful in contact with skin.  
H314 Causes severe skin burns and eye damage.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H334 May cause allergy or asthma symptoms or breathing

**RanVar™ TR-308B Hardener**

Version 3

Revision Date 06/01/2016

Print Date 06/01/2016

## Precautionary statements

difficulties if inhaled.

H360 May damage fertility or the unborn child.

H362 May cause harm to breast-fed children.

: **Prevention:**

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P263 Avoid contact during pregnancy/ while nursing.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P281 Use personal protective equipment as required.

P285 In case of inadequate ventilation wear respiratory protection.

**Response:**

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P304 + P340 + P310 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Immediately call a POISON CENTER or doctor/ physician.

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**

Chemical nature

: Modified Aliphatic Amidoamine/Alkylphenol Blend

**Hazardous components**

**RanVar™ TR-308B Hardener**

Version 3

Revision Date 06/01/2016

Print Date 06/01/2016

Component	CAS-No.	Concentration (%)
Fatty acid amine	68953-36-6	>= 38 - < 39
Nonylphenol	84852-15-3	>= 23 - < 24
Aliphatic amine	140-31-8	>= 21 - < 22
Tetraethylenepentamine	112-57-2	>= 10 - < 11
Triethylenetetramine	112-24-3	>= 3 - < 4
Phenol, 2-nonyl-, branched	91672-41-2	>= 1 - < 2
Phenol, dinonyl-	1323-65-5	>= 1 - < 2
Diethylenetriamine	111-40-0	>= 0 - < 1
2-(2-Aminoethylamino)ethanol	111-41-1	>= 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 : Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.  
Take victim immediately to hospital.  
If on skin, rinse well with water.  
If on clothes, remove clothes.  
Speed in removing phenol and/or methyl phenol from the affected area is of primary importance.  
Apply polyethylene glycol (PEG) to the affected area and rinse with large amounts of water. Repeat application of PEG and Washing of affected area until burning and odor are gone.  
If PEG is not available, wash with large amounts of soap and water.  
Do not use alcohol-based products to wash affected area. Alcohol will adversely promote absorption of phenol and/or methyl phenol into skin.
- 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.

**RanVar™ TR-308B Hardener**

Version 3

Revision Date 06/01/2016

Print Date 06/01/2016

- 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.
- Most important symptoms and effects, both acute and delayed : Phenol poisoning can occur via the lungs and skin, or by swallowing.  
 Widespread skin contact can result in rapid onset of symptoms and death.

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

**RanVar™ TR-308B Hardener**

Version 3

Revision Date 06/01/2016

Print Date 06/01/2016

**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.  
 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.  
 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
Tetraethylenepentamine	112-57-2	TWA	5 mg/m <sup>3</sup>	US WEEL
Triethylenetetramine	112-24-3	TWA	1 ppm	US WEEL
Diethylenetriamine	111-40-0	TWA	1 ppm	ACGIH
		TWA	1 ppm 4 mg/m <sup>3</sup>	OSHA P0

- 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**

- 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

**RanVar™ TR-308B Hardener**

Version 3

Revision Date 06/01/2016

Print Date 06/01/2016

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
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	: 0.9512 g/cm <sup>3</sup> (77 °F (25 °C))

**RanVar™ TR-308B Hardener**

Version 3

Revision Date 06/01/2016

Print Date 06/01/2016

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.
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.

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

Acute oral toxicity	: Acute toxicity estimate : 3,205 mg/kg Method: Calculation method
Acute dermal toxicity	: Acute toxicity estimate : 1,257 mg/kg Method: Calculation method

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

Acute oral toxicity	: LD50 (Rat): 1,882 mg/kg
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**RanVar™ TR-308B Hardener**

Version 3

Revision Date 06/01/2016

Print Date 06/01/2016

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

**140-31-8 Aliphatic amine:**

Acute oral toxicity : LD50 (Rat, male): 2,097 mg/kg

Acute dermal toxicity : LD50 (Rabbit, male): 866 mg/kg

**112-57-2 Tetraethylenepentamine:**

Acute oral toxicity : LD50 Oral (Rat): 3,990 mg/kg

Acute dermal toxicity : LD50 (Rat): 660 mg/kg

**112-24-3 Triethylenetetramine:**

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

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

**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

**140-31-8 Aliphatic amine:**

Species: Rabbit

Result: Corrosive

**112-24-3 Triethylenetetramine:**

Method: OECD Test Guideline 435

Result: Corrosive

**111-40-0 Diethylenetriamine:**

Species: Rabbit

Result: Corrosive to skin

**111-41-1 2-(2-Aminoethylamino)ethanol:**

Species: Rabbit

Result: Corrosive to skin

**RanVar™ TR-308B Hardener**

Version 3

Revision Date 06/01/2016

Print Date 06/01/2016

Species: Rabbit  
Method: OECD Test Guideline 404  
Result: Corrosive  
GLP: yes

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

Remarks: May cause irreversible eye damage.

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

Result: Severe eye irritation

**140-31-8 Aliphatic amine:**

Species: Rabbit  
Result: Risk of serious damage to eyes.

**112-24-3 Triethylenetetramine:**

Species: Rabbit  
Result: Corrosive to eyes

**111-40-0 Diethylenetriamine:**

Species: Rabbit  
Result: Corrosive to eyes

**111-41-1 2-(2-Aminoethylamino)ethanol:**

Species: Rabbit  
Result: Corrosive to eyes

Species: Rabbit  
Result: Corrosive  
Method: OECD Test Guideline 405

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

Remarks: Causes sensitisation.

**Components:****140-31-8 Aliphatic amine:**

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

**112-24-3 Triethylenetetramine:**

Test Type: Buehler Test

**RanVar™ TR-308B Hardener**

Version 3

Revision Date 06/01/2016

Print Date 06/01/2016

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

**111-41-1 2-(2-Aminoethylamino)ethanol:**

Test Type: Mouse Local Lymph Node assay (LLNA)  
Exposure routes: Dermal  
Species: Mouse  
Method: OECD Test Guideline 429  
Result: Causes sensitisation.  
GLP: yes

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

Genotoxicity in vitro : Test Type: Ames test  
Result: negative

**Carcinogenicity****IARC**

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.

**ACGIH**

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.

**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.

**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.

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

**RanVar™ TR-308B Hardener**

Version 3

Revision Date 06/01/2016

Print Date 06/01/2016

Remarks: No data available

**SECTION 12. ECOLOGICAL INFORMATION**
**Ecotoxicity**
**Components:**
**140-31-8 Aliphatic amine:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 2,190 mg/l  
 Exposure time: 96 h  
 Test Type: static test

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 58 mg/l  
 aquatic invertebrates : Exposure time: 48 h  
 Method: OECD Test Guideline 202  
 GLP: yes

Toxicity to algae : ErC50 (Selenastrum capricornutum (green algae)): > 1,000  
 mg/l  
 Exposure time: 72 h  
 Method: OECD Test Guideline 201  
 GLP: yes

**111-40-0 Diethylenetriamine:**

Toxicity to fish : LC50 (Poecilia reticulata (guppy)): 430 mg/l  
 Exposure time: 96 h  
 Test Type: semi-static test  
 Method: Directive 67/548/EEC, Annex V, C.1.  
 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 : NOEC (Daphnia magna (Water flea)): 5.6 mg/l  
 aquatic invertebrates : Exposure time: 21 d  
 (Chronic toxicity) : End point: Reproduction  
 Test Type: semi-static test  
 GLP: yes

**111-41-1 2-(2-Aminoethylamino)ethanol:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 640 mg/l  
 Exposure time: 96 h

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 22 mg/l  
 aquatic invertebrates : Exposure time: 48 h  
 Test Type: static test  
 Method: OECD Test Guideline 202

**RanVar™ TR-308B Hardener**

Version 3

Revision Date 06/01/2016

Print Date 06/01/2016

GLP: yes

Toxicity to algae : ErC50 (Scenedesmus subspicatus): 358 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201

**Persistence and degradability****Components:****140-31-8 Aliphatic amine:**

Biodegradability : Result: Not readily biodegradable.  
Method: OECD Test Guideline 301F  
GLP: yes

**111-40-0 Diethylenetriamine:**

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

**111-41-1 2-(2-Aminoethylamino)ethanol:**

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

**Bioaccumulative potential****Components:****140-31-8 Aliphatic amine:**

Partition coefficient: n-octanol/water : log Pow: -1.48 (20 °C)

**111-41-1 2-(2-Aminoethylamino)ethanol:**

Bioaccumulation : Species: Cyprinus carpio (Carp)  
Bioconcentration factor (BCF): < 0.2  
Exposure time: 42 d  
Temperature: 25 °C  
Method: OECD Test Guideline 305C

Partition coefficient: n-octanol/water : log Pow: -1.46 (25 °C)  
pH: 10.6 - 11  
Method: OECD Test Guideline 107

**Mobility in soil****Components:****140-31-8 Aliphatic amine:**

Distribution among environmental compartments : Medium: Soil  
Koc: 37000

**RanVar™ TR-308B Hardener**

Version 3

Revision Date 06/01/2016

Print Date 06/01/2016

**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

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) : none

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.

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

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

Class : 8  
Packing group : II  
Labels : Corrosive  
Packing instruction (cargo aircraft) : 855  
Packing instruction (passenger aircraft) : 851

**IMDG-Code**

UN number : UN 2735  
Proper shipping name : AMINES, LIQUID, CORROSIVE, N.O.S.

**RanVar™ TR-308B Hardener**

Version 3

Revision Date 06/01/2016

Print Date 06/01/2016

(Tetraethylenepentamine, )

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 2735
Proper shipping name	: Amines, liquid, corrosive, n.o.s. (Tetraethylenepentamine, )
Class	: 8
Packing group	: II
Labels	: Corrosive
Marine pollutant	: no

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

Calculated RQ exceeds reasonably attainable upper limit.

**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.

<b>SARA 311/312 Hazards</b>	: Acute Health Hazard Chronic Health Hazard
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<b>SARA 302</b>	: The following components are subject to reporting levels established by SARA Title III, Section 302:
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Phenol	108-95-2	.2 %
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<b>SARA 313</b>	: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
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**Clean Air Act**

**RanVar™ TR-308B Hardener**

Version 3

Revision Date 06/01/2016

Print Date 06/01/2016

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).

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

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

Aliphatic amine	140-31-8
Tetraethylenepentamine	112-57-2
Triethylenetetramine	112-24-3
Phenol	108-95-2

**Pennsylvania Right To Know**

Fatty acid amine	68953-36-6
Nonylphenol	84852-15-3
Aliphatic amine	140-31-8
Tetraethylenepentamine	112-57-2
Triethylenetetramine	112-24-3
Phenol	108-95-2

**New Jersey Right To Know**

Fatty acid amine	68953-36-6
Nonylphenol	84852-15-3
Aliphatic amine	140-31-8
Tetraethylenepentamine	112-57-2
Triethylenetetramine	112-24-3
Phenol	108-95-2

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

**California Prop 65**

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

**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).

**RanVar™ TR-308B Hardener**

Version 3

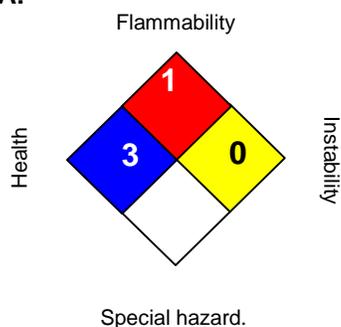
Revision Date 06/01/2016

Print Date 06/01/2016

Section 4 / 12(b) : Not applicable

Section 5 : 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>1</b>
<b>PHYSICAL HAZARD</b>	<b>0</b>

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

Revision Date : 06/01/2016

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.