

# **CONAP® CE-1164 Conformal Coating**

Version 1 Revision Date 11/16/2017 Print Date 11/16/2017

#### **SECTION 1. IDENTIFICATION**

Product name : CONAP® CE-1164 Conformal Coating

## 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

E-mail address : Todd.Thomas@altana.com Emergency telephone : INFOTRAC - 1-800-535-5053

number

## 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**

Flammable liquids : Category 2

Acute toxicity (Inhalation) : Category 3

Skin irritation : Category 2

Eye irritation : Category 2A

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, Central nervous system)

Specific target organ toxicity

- repeated exposure

: Category 2

#### **GHS** label elements



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Hazard pictograms









Signal word : Danger

Hazard statements : H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H334 May cause allergy or asthma symptoms or breathing

difficulties if inhaled.

H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H351 Suspected of causing cancer.

H361 Suspected of damaging fertility or the unborn child. H373 May cause damage to organs through prolonged or

repeated exposure.

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.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical/ ventilating/ lighting/

equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge. P260 Do not breathe 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/ protective clothing/ eye protection/

face protection.

P285 In case of inadequate ventilation wear respiratory

protection.

Response:

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

P304 + P340 + P311 IF INHALED: Remove person to fresh air

and keep comfortable for breathing. Call a POISON

CENTER/doctor.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing.



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P308 + P313 IF exposed or concerned: Get medical advice/

attention.

P333 + P313 If skin irritation or rash occurs: Get medical advice/

attention.

P337 + P313 If eye irritation persists: 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 to extinguish.

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.

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

Chemical nature : Polyurethane Resin Solution

#### **Hazardous components**

Component	CAS-No.	Concentration (%)
1-Methoxy-2-propanol acetate	108-65-6	>= 24 - < 25
Toluene diisocyanate (TDI), monomer	26471-62-5	>= 18 - < 19
Toluene	108-88-3	>= 13 - < 14
Xylene	1330-20-7	>= 9 -< 10
Ethyl benzene (component of Xylene)	100-41-4	>= 2 -< 3

#### **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. Symptoms of poisoning may appear several hours later.

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.



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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 : Immediately flush eye(s) with plenty of water.

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 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.

#### **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media : Alcohol-resistant foam

Carbon dioxide (CO2)

Dry chemical

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. Remove all sources of ignition. Evacuate personnel to safe areas.

Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

Environmental precautions : Prevent product from entering drains.



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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

: 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).

#### **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.

Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work rooms. Open drum carefully as content may be under pressure. 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.

Prevent unauthorized access.

No smoking.

Keep container tightly closed in a dry and well-ventilated

place.

Containers which are opened must be carefully resealed and

kept upright to prevent leakage. 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
1-Methoxy-2-propanol acetate	108-65-6	TWA	50 ppm	US WEEL



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Toluene diisocyanate (TDI), monomer	26471-62-5	С	0.02 ppm 0.14 mg/m3	OSHA Z-1
		TWA	0.005 ppm	ACGIH
		STEL	0.02 ppm	ACGIH
		TWA	0.005 ppm 0.04 mg/m3	OSHA P0
		STEL	0.02 ppm 0.15 mg/m3	OSHA P0
Toluene	108-88-3	TWA	20 ppm	ACGIH
		TWA	200 ppm	OSHA Z-2
		CEIL	300 ppm	OSHA Z-2
		Peak	500 ppm	OSHA Z-2
		TWA	100 ppm 375 mg/m3	OSHA P0
		STEL	150 ppm 560 mg/m3	OSHA P0
Xylene	1330-20-7	TWA	100 ppm 435 mg/m3	OSHA Z-1
		STEL	150 ppm 655 mg/m3	OSHA P0
		TWA	100 ppm 435 mg/m3	OSHA P0
		TWA	100 ppm	ACGIH
		STEL	150 ppm	ACGIH
Ethyl benzene (component of Xylene)	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)

Isocyanates may be released during the curing process.
Repeated overexposure to isocyanates can cause respiratory

tract sensitization.

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



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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 : Avoid contact with skin, eyes and clothing.

When using do not eat or drink. When using do not smoke.

Wash hands before breaks and immediately after handling

the product.

## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : liquid

Odour Threshold : No data available

pH : No data available

Melting point/freezing point : No data available

: > 95 °F (> 35 °C)

Vapour pressure : No data available

Flash point :  $45 \,^{\circ}\text{F} \, (7 \,^{\circ}\text{C})$ 

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 : 1.05 g/cm3 (77 °F (25 °C))

Solubility(ies)

Water solubility : No data available



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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 : > 22 mm2/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.

Vapours may form explosive mixture with air.

Conditions to avoid : Heat, flames and sparks.

Hazardous decomposition

products

: Carbon monoxide in a fire. Nitrogen oxides in a fire.

Isocyanates

#### **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 : 2.62 mg/l

Exposure time: 4 h
Test atmosphere: vapour
Method: Calculation method

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

Method: Calculation method



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Components:

108-65-6 1-Methoxy-2-propanol acetate:

Acute oral toxicity : LD50 (Rat, female): 5,155 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 100 ppm

Exposure time: 4 h

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg

26471-62-5 Toluene diisocyanate (TDI), monomer:

Acute oral toxicity : LD50 (Rat): > 4,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): 14 ppm

Acute dermal toxicity : LD50 (Rabbit): > 10,000 mg/kg

108-88-3 Toluene:

Acute oral toxicity : LD50 (Rat): 2,600 mg/kg

1330-20-7 Xylene:

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

Method: Directive 67/548/EEC, Annex V, B.1.

Acute inhalation toxicity : LC50 (Rat): 5000 ppm

Exposure time: 4 h

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

100-41-4 Ethyl benzene (component of Xylene):

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

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

Skin corrosion/irritation

**Product:** 

Remarks: May cause skin irritation and/or dermatitis.

**Components:** 

26471-62-5 Toluene diisocyanate (TDI), monomer:

Species: Rabbit

Result: Corrosive to skin

Species: Rabbit

Method: OECD Test Guideline 404

Result: Skin irritation

1330-20-7 Xylene:

Species: Rabbit

Result: Moderate skin irritation



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## 100-41-4 Ethyl benzene (component of Xylene):

Species: Rabbit

Result: Moderate skin irritation

## Serious eye damage/eye irritation

## **Product:**

Remarks: May cause irreversible eye damage.

#### **Components:**

#### 26471-62-5 Toluene diisocyanate (TDI), monomer:

Species: Rabbit

Result: Corrosive to eyes

## 1330-20-7 Xylene:

Species: Rabbit Result: Eye irritation

#### 100-41-4 Ethyl benzene (component of Xylene):

Species: Rabbit

Result: Moderate eye irritation

## Respiratory or skin sensitisation

#### **Product:**

Remarks: Causes sensitisation.

## **Components:**

## 26471-62-5 Toluene diisocyanate (TDI), monomer:

Test Type: Mouse Local Lymph Node assay (LLNA)

Species: Mouse

Method: OECD Test Guideline 429

Result: May cause sensitisation by skin contact.

Result: May cause sensitisation by inhalation.

## Carcinogenicity

IARC Group 2B: Possibly carcinogenic to humans

Toluene diisocyanate (TDI), 26471-62-5

monomer

Ethyl benzene (component of 100-41-4

Xylene)



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**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

egual to 0.1% is identified as a carcinogen or potential

carcinogen by OSHA.

**NTP** Reasonably anticipated to be a human carcinogen

> Toluene diisocyanate (TDI), 26471-62-5

monomer

#### **Further information**

#### **Product:**

Remarks: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting., Concentrations substantially above the TLV value may cause narcotic effects.,

Solvents may degrease the skin.

#### **SECTION 12. ECOLOGICAL INFORMATION**

#### **Ecotoxicity**

#### Components:

26471-62-5 Toluene diisocyanate (TDI), monomer:

: LC50 (Oncorhynchus mykiss (rainbow trout)): 133 mg/l Toxicity to fish

Exposure time: 96 h

Method: OECD Test Guideline 203

aquatic invertebrates

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 12.5 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Toxicity to algae : ErC50 (Chlorella vulgaris (Fresh water algae)): 4,300 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 201

ErC50 (Skeletonema costatum (marine diatom)): 3,230 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 201

aquatic invertebrates (Chronic toxicity)

Toxicity to daphnia and other : NOEC (Daphnia magna (Water flea)): 1.1 mg/l

Exposure time: 21 d

End point: Reproduction

Method: OECD Test Guideline 211

GLP: yes



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#### Persistence and degradability

Components:

26471-62-5 Toluene diisocyanate (TDI), monomer:

Biodegradability : Result: Not biodegradable

Bioaccumulative potential

**Components:** 

26471-62-5 Toluene diisocyanate (TDI), monomer:

Partition coefficient: n- : log Pow: 3.43 (22 °C)

octanol/water pH: 7

Method: OECD Test Guideline 117

**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

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)

: D001: Ignitable D003: Reactive

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.



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#### **SECTION 14. TRANSPORT INFORMATION**

## **International Regulations**

IATA-DGR

UN/ID No. : UN 1992

Proper shipping name : Flammable liquid, toxic, n.o.s.

(Toluene, Toluene diisocyanate)

Class : 3
Subsidiary risk : 6.1
Packing group : II

Labels : Flammable liquid, Toxic

Packing instruction (cargo : 364

aircraft)

Packing instruction : 352

(passenger aircraft)

**IMDG-Code** 

UN number : UN 1992

Proper shipping name : FLAMMABLE LIQUID, TOXIC, N.O.S.

(TOLUENE, TOLUENE DIISOCYANATE)

Class : 3
Subsidiary risk : 6.1
Packing group : II
Labels : 3 (6.1)
EmS Code : F-E, S-D
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 1992

Proper shipping name : Flammable liquid, toxic, n.o.s.

(Toluene, Toluene diisocyanate)

Class : 3
Subsidiary risk : 6.1
Packing group : II

Labels : Flammable liquid, Toxic

Marine pollutant : no

#### **SECTION 15. REGULATORY INFORMATION**

## **EPCRA - Emergency Planning and Community Right-to-Know Act**

US. EPA CERCLA Hazardous Substances (40 CFR 302)



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(lbs)	(lbs)
100	539
	<b>+</b>

#### 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 : 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.

Toluene diisocyanate 26471-62-5 18.5 %

(TDI), monomer

Toluene 108-88-3 13.1 %

Xylene 1330-20-7 9.4 %

Ethyl benzene (component 100-41-4 2.4 %

of Xylene)

## Clean Air Act

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

Toluene 108-88-3 13.1 % Xylene 1330-20-7 9.4 % Ethyl benzene (component of Xylene) 100-41-4 2.4 %

The following chemical(s) are listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F):

Toluene diisocyanate (TDI), monomer 26471-62-5 18.5 %



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

Toluene diisocyanate (TDI), monomer	26471-62-5	18.5 %
Toluene	108-88-3	13.1 %
Xylene	1330-20-7	9.4 %
Ethyl benzene (component of Xylene)	100-41-4	2.4 %

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

## **US State Regulations**

## Massachusetts Right To Know

Toluene diisocyanate (TDI), monomer	26471-62-5
Toluene	108-88-3
Xylene	1330-20-7
Ethyl benzene (component of Xylene)	100-41-4
Toluene diisocyanate	584-84-9
2-Methyl-m-phenylene diisocyanate	91-08-7
Propylene oxide	75-56-9
Benzene	71-43-2

## Pennsylvania Right To Know

Polyurethane Resin	117371-86-5
1-Methoxy-2-propanol acetate	108-65-6
Toluene diisocyanate (TDI), monomer	26471-62-5
Toluene	108-88-3
Xylene	1330-20-7
Ethyl benzene (component of Xylene)	100-41-4
Toluene diisocyanate	584-84-9
2-Methyl-m-phenylene diisocyanate	91-08-7
Propylene oxide	75-56-9
Cumene (component of Solvent naphtha, petroleum, light aromatic)	98-82-8

## **New Jersey Right To Know**

Polyurethane Resin	117371-86-5
1-Methoxy-2-propanol acetate	108-65-6
Toluene diisocyanate (TDI), monomer	26471-62-5
Toluene	108-88-3
Xylene	1330-20-7
Ethyl benzene (component of Xylene)	100-41-4

New Jersey Trade Secret : Not Applicable

Registry Number for the product (NJ TSRN)

California Prop 65 WARNING! This product contains a chemical known to the

State of California to cause cancer.



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Toluene diisocyanate (TDI), monomer 26471-62-5 Ethyl benzene (component of Xylene) 100-41-4 Propylene oxide 75-56-9 Cumene (component of Solvent naphtha, 98-82-8

petroleum, light aromatic)

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

Section 5 Not applicable

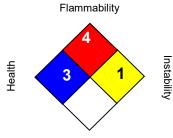
DSL : We certify that all of the components of this product are listed

on the DSL.

#### **SECTION 16. OTHER INFORMATION**

#### **Further information**

NFPA:



Special hazard.

#### HMIS III:

HEALTH	3*
FLAMMABILITY	3
PHYSICAL HAZARD	1

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



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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.

