

**Section 1: Identification of the Substance/Mixture and of the Company/Undertaking****1.1 Product identifier**

- Product Name** • **TexTac**  
**Product Description** • White liquid.

**1.2 Relevant identified uses of the substance or mixture and uses advised against**

- Relevant identified use(s)** • Adhesive

**1.3 Details of the supplier of the safety data sheet**

- Manufacturer** • IKONICS Corporation  
4832 Grand Ave.  
Duluth, MN 55807  
United States  
www.ikonics.com  
sds@ikonics.com
- Telephone (General)** • (218) 628-2217  
**Telephone (General)** • (800) 328-4261 - Toll free

**1.4 Emergency telephone number**

- Chemtrec** • 1-800-424-9300 - Within USA and Canada  
• +1 703-527-3887 - Outside USA and Canada (collect calls accepted)

**Section 2: Hazards Identification****EU/EEC**

According to: Regulation (EC) No 1272/2008 (CLP)/REACH 1907/2006 [amended by 453/2010]

**2.1 Classification of the substance or mixture**

- CLP** • Specific Target Organ Toxicity Repeated Exposure 2 - H373

**2.2 Label Elements**

**CLP**

**WARNING**

- Hazard statements** • H373 - May cause damage to organs - Kidney/Nephrotoxin through prolonged or repeated exposure via Inhalation

**Precautionary statements**

- Prevention** • P260 - Do not breathe dust, fume, gas, mist, vapours and/or spray.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
- Response** • P301+P312 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician if you feel unwell.  
P302+P352 - IF ON SKIN: Wash with plenty of soap and water.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P314 - Get medical advice/attention if you feel unwell.

**Storage/Disposal** • P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

## 2.3 Other Hazards

CLP • No data available

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## UN GHS

According to: UN Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

### 2.1 Classification of the substance or mixture

UN GHS • Specific Target Organ Toxicity Repeated Exposure 2

### 2.2 Label elements

UN GHS

#### WARNING



**Hazard statements** • May be harmful if swallowed  
May cause damage to organs - Kidney/Nephrotoxin through prolonged or repeated exposure via Inhalation

#### Precautionary statements

**Prevention** • Do not breathe dust, fume, gas, mist, vapours and/or spray.

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

**Response** • IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician if you feel unwell.

IF ON SKIN: Wash with plenty of soap and water.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Get medical advice/attention if you feel unwell.

**Storage/Disposal** • Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

## 2.3 Other hazards

UN GHS • No data available

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## United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

### 2.1 Classification of the substance or mixture

OSHA HCS 2012 • Specific Target Organ Toxicity Repeated Exposure 2

### 2.2 Label elements

OSHA HCS 2012

#### WARNING



**Hazard statements** • May be harmful if swallowed  
May cause damage to organs - Kidney/Nephrotoxin through prolonged or repeated exposure via Inhalation

#### Precautionary statements

**Prevention** • Do not breathe dust, fume, gas, mist, vapours and/or spray.

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

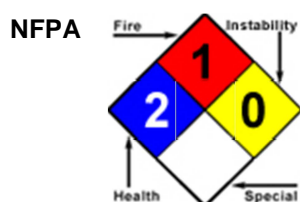
**Response** • IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician if you feel unwell.  
 IF ON SKIN: Wash with plenty of soap and water.  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 Get medical advice/attention if you feel unwell.

**Storage/Disposal** • Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

## 2.3 Other hazards

OSHA HCS 2012 • No data available

## 2.4 Other information



See Section 12 for Ecological Information.

## Section 3 - Composition/Information on Ingredients

### 3.1 Substances

### 3.2 Mixtures

Composition					
Chemical Name	Identifiers	%	LD50/LC50	Classifications According to Regulation/Directive	Comments
Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy-, branched	CAS:68412-54-4	1% TO 5%		UN GHS: EU CLP: OSHA HCS 2012:	NDA
1,2-Propanediol	CAS:57-55-6 EC Number:200-338-0 EINECS:200-338-0	1% TO 5%	Ingestion/Oral-Rat LD50 • 20 g/kg Skin-Rabbit LD50 • 20800 mg/kg	UN GHS: Skin Irrit. 3; Eye Irrit. 2A EU CLP: OSHA HCS 2012:	NDA

### European Chemicals Agency – Candidate List of Substances of Very High Concern for Authorization

- Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy-, branched, CAS #68412-54-4; (4-Nonylphenol, branched and linear, ethoxylated); listed 2013/06/20; 1-5%.

#### Key to abbreviations

= See Section 16 for full text of R and S phrases.

See Section 11 for Toxicological Information.

## Section 4 - First Aid Measures

### 4.1 Description of first aid measures

- Inhalation**
- IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. Call 911 or emergency medical service.
- Skin**
- IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.
- Eye**
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

- Ingestion**
- If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Rinse mouth. Never give anything by mouth to an unconscious person. If large quantities are swallowed, call a physician immediately.

#### 4.2 Most important symptoms and effects, both acute and delayed

- Refer to Section 11 - Toxicological Information.

#### 4.3 Indication of any immediate medical attention and special treatment needed

- Antidotes**
- No data available.

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### Section 5 - Firefighting Measures

#### 5.1 Extinguishing media

- Suitable Extinguishing Media**
- SMALL FIRES: Dry chemical, CO<sub>2</sub>, water spray or regular foam.  
LARGE FIRE: Water spray, fog or regular foam.

- Unsuitable Extinguishing Media**
- No data available

- Firefighting Procedures**
- Fire fighters should wear complete protective clothing including self-contained breathing apparatus.  
Keep unauthorized personnel away.  
Ventilate closed spaces before entering.  
LARGE FIRES: Use extinguishing agent suitable for type of surrounding fire.

#### 5.2 Special hazards arising from the substance or mixture

- Unusual Fire and Explosion Hazards**
- Some of these materials may burn, but most do not ignite readily.

- Hazardous Combustion Products**
- Products of combustion include: carbon oxides (CO<sub>x</sub>).

#### 5.3 Advice for firefighters

- Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations where direct contact with the substance is possible.  
Wear chemical protective clothing that is specifically recommended by the manufacturer. It may provide little or no thermal protection.  
Wear positive pressure self-contained breathing apparatus (SCBA).

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### Section 6 - Accidental Release Measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

- Personal Precautions**
- Do not touch or walk through spilled material. Ventilate enclosed areas.
- Emergency Procedures**
- No emergency procedures are expected to be necessary if material is used under ordinary conditions as recommended. Use normal clean up procedures.

#### 6.2 Environmental precautions

- LARGE SPILLS: Prevent entry into waterways, sewers, basements or confined areas.

#### 6.3 Methods and material for containment and cleaning up

- Containment/Clean-up Measures**
- Use appropriate Personal Protective Equipment (PPE)  
Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in suitable container.

#### 6.4 Reference to other sections

- Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Disposal Considerations.

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### Section 7 - Handling and Storage

#### 7.1 Precautions for safe handling

- Handling**
- Use good safety and industrial hygiene practices.

## 7.2 Conditions for safe storage, including any incompatibilities

### Storage

- Store away from extreme heat. Do not freeze. Keep container closed when not in use.

## 7.3 Specific end use(s)

- Refer to Section 1.2 - Relevant identified uses.

## Section 8 - Exposure Controls/Personal Protection

### 8.1 Control parameters

Exposure Limits/Guidelines						
	Result	Australia	Canada Ontario	Ireland	New Zealand	Norway
1,2-Propanediol (57-55-6)	TWAs	150 ppm TWA (total vapour and particulates); 474 mg/m <sup>3</sup> TWA (total vapour and particulates); 10 mg/m <sup>3</sup> TWA (particulates only)	10 mg/m <sup>3</sup> TWA (for assessing the visibility in a work environment where 1,2-Propylene glycol aerosol is present, aerosol only); 50 ppm TWA (aerosol and vapor); 155 mg/m <sup>3</sup> TWA (aerosol and vapor)	150 ppm TWA (total vapour and particulates); 470 mg/m <sup>3</sup> TWA (total vapour and particulates); 10 mg/m <sup>3</sup> TWA (particulate)	150 ppm TWA (particulates and vapour); 474 mg/m <sup>3</sup> TWA (particulates and vapour); 10 mg/m <sup>3</sup> TWA (particulates only)	25 ppm TWA; 79 mg/m <sup>3</sup> TWA
Exposure Limits/Guidelines (Con't.)						
	Result	South Africa				
1,2-Propanediol (57-55-6)	TWAs	150 ppm TWA (particulate and vapour); 470 mg/m <sup>3</sup> TWA (particulate and vapour); 10 mg/m <sup>3</sup> TWA (particulate)				

### 8.2 Exposure controls

#### Engineering Measures/Controls

- Local exhaust is recommended but not required. Provide adequate ventilation as necessary.

#### Personal Protective Equipment

##### Pictograms



##### Respiratory

- In case of insufficient ventilation, wear suitable respiratory equipment.

##### Eye/Face

- Wear protective eyewear (goggles, face shield, or safety glasses).

##### Hands

- Wear protective gloves - rubber or neoprene.

##### Skin/Body

- Wear protective clothing - apron or other impervious body coverings.

##### General Industrial Hygiene Considerations

- Handle in accordance with good industrial hygiene and safety practice.

##### Environmental Exposure Controls

- No data available

## Section 9 - Physical and Chemical Properties

### 9.1 Information on Physical and Chemical Properties

Material Description			
Physical Form	Liquid	Color	White
Odor	Slight acrylic odor.	Odor Threshold	No data available
General Properties			
Boiling Point	100 C(212 F)	Melting Point/Freezing Point	0 C(32 F)
Decomposition Temperature		pH	4.3
Specific Gravity/Relative Density	= 1.03 Water=1	Water Solubility	Dispersible
Explosive Properties	Not relevant	Oxidizing Properties:	Not relevant
Volatility			

Vapor Pressure		Vapor Density	
Evaporation Rate	< 1 n-Butyl Acetate = 1	Volatiles (Wt.)	38.5 %
<b>Flammability</b>			
Flash Point	> 200 F(> 93.3333 C)	UEL	
LEL		Autoignition	Not relevant
Flammability (solid, gas)	Not relevant		
<b>Environmental</b>			
Half-Life	No data available	Octanol/Water Partition coefficient	No data available
Coefficient of water/oil distribution	No data available	Bioaccumulation Factor	No data available
Bioconcentration Factor	No data available	Biochemical Oxygen Demand BOD/BOD5	No data available
Chemical Oxygen Demand	No data available	Persistence	No data available
Degradation	No data available		

## 9.2 Other Information

- No additional physical and chemical parameters noted.

## Section 10: Stability and Reactivity

### 10.1 Reactivity

- No dangerous reaction known under conditions of normal use.

### 10.2 Chemical stability

- Stable under normal temperatures and pressures.

### 10.3 Possibility of hazardous reactions

- Hazardous polymerization will not occur.

### 10.4 Conditions to avoid

- Avoid freezing. Excess heat.

### 10.5 Incompatible materials

- No data available

### 10.6 Hazardous decomposition products

- No decomposition is expected under normal storage and use conditions. Hazardous decomposition products formed under fire conditions - carbon oxides (COx).

## Section 11 - Toxicological Information

### 11.1 Information on toxicological effects

Components		
1,2-Propanediol (1% TO 5%)	57-55-6	<b>Acute Toxicity:</b> Ingestion/Oral-Rat LD50 • 20 g/kg; Skin-Rabbit LD50 • 20800 mg/kg; <b>Irritation:</b> Eye-Rabbit • 100 mg • Mild irritation; Skin-Human • 104 mg 3 Day(s)-Intermittent • Moderate irritation

GHS Properties	Classification
Respiratory sensitization	EU/CLP• OSHA HCS 2012• UN GHS•
Serious eye damage/Irritation	EU/CLP• OSHA HCS 2012• UN GHS•
Acute toxicity	EU/CLP• OSHA HCS 2012• UN GHS•

Aspiration Hazard	EU/CLP• OSHA HCS 2012• UN GHS•
Carcinogenicity	EU/CLP• OSHA HCS 2012• UN GHS•
Skin corrosion/Irritation	EU/CLP• OSHA HCS 2012• UN GHS•
Skin sensitization	EU/CLP• OSHA HCS 2012• UN GHS•
STOT-RE	EU/CLP•Specific Target Organ Toxicity Repeated Exposure 2 OSHA HCS 2012•Specific Target Organ Toxicity Repeated Exposure 2 UN GHS•Specific Target Organ Toxicity Repeated Exposure 2
STOT-SE	EU/CLP• OSHA HCS 2012• UN GHS•
Toxicity for Reproduction	EU/CLP• OSHA HCS 2012• UN GHS•
Germ Cell Mutagenicity	EU/CLP• OSHA HCS 2012• UN GHS•

**Target Organs**

- Kidney/Nephrotoxin

**Route(s) of entry/exposure**

- Inhalation

**Potential Health Effects**

**Inhalation**

**Acute (Immediate)**

- May cause mild irritation.

**Chronic (Delayed)**

- Repeated and prolonged exposure may cause irritation.

**Skin**

**Acute (Immediate)**

- May cause mild irritation.

**Chronic (Delayed)**

- Repeated and prolonged exposure may cause irritation.

**Eye**

**Acute (Immediate)**

- May cause irritation.

**Chronic (Delayed)**

- Repeated and prolonged exposure may cause irritation.

**Ingestion**

**Acute (Immediate)**

- No data available

**Chronic (Delayed)**

- No data available

**Mutagenic Effects**

- No known significant effects or critical hazards.

**Carcinogenic Effects**

- No known significant effects or critical hazards.

**Reproductive Effects**

- No known significant effects or critical hazards.

**Section 12 - Ecological Information**

**12.1 Toxicity**

Component	CAS	Data	Comments
1,2-Propanediol (1% TO 5%)	57-55-6	Crustacea: 48 Hour(s) EC50 Water Flea 1000 mg/L ; Fish: 96 Hour(s) LC50 Fish 710 mg/L [Fresh water]	

**12.2 Persistence and degradability**

- No data available

### 12.3 Bioaccumulative potential

- No data available

### 12.4 Mobility in Soil

- No data available

### 12.5 Results of PBT and vPvB assessment

- No data available

### 12.6 Other adverse effects

## Section 13 - Disposal Considerations

### 13.1 Waste treatment methods

#### Product waste

- Dispose of content in accordance with local, regional, national, and/or international regulations.

#### Packaging waste

- Dispose of container in accordance with local, regional, national, and/or international regulations.

### 13.2 Other Information

- Dispose of wastes in an approved waste disposal facility.

## Section 14 - Transport Information

	14.1 UN number	14.2 UN proper shipping name	14.3 Transport hazard class(es)	14.4 Packing group	14.5 Environmental hazards
DOT	NDA	NDA	NDA	NDA	NDA
IMO/IMDG	NDA	NDA	NDA	NDA	NDA
IATA/ICAO	NDA	NDA	NDA	NDA	NDA

### 14.6 Special precautions for user

- None specified.

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

- Not relevant.

### 14.8 Other information

- DOT • Not regulated.
- IMO/IMDG • Not regulated.
- IATA/ICAO • Not regulated.

## Section 15 - Regulatory Information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### SARA Hazard Classifications • Chronic

State Right To Know			
Component	CAS	NJ	PA
1,2-Propanediol	57-55-6	Yes	Yes
Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy-, branched	68412-54-4	No	No

Inventory						
Component	CAS	Australia AICS	Canada DSL	China	EU EINECS	Japan ENCS
1,2-Propanediol	57-55-6	Yes	Yes	Yes	Yes	Yes



Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy-, branched	68412-54-4	Yes	Yes	Yes	No	Yes
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### Inventory (Con't.)

Component	CAS	Korea KECL	New Zealand	Philippines PICCS	TSCA
1,2-Propanediol	57-55-6	Yes	Yes	Yes	Yes
Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy-, branched	68412-54-4	Yes	Yes	Yes	Yes

## Australia

### Labor

#### Australia - High Volume Industrial Chemicals List

- Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy-, branched 68412-54-4 Not Listed
- 1,2-Propanediol 57-55-6

#### Australia - List of Designated Hazardous Substances - Classification

- Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy-, branched 68412-54-4 Not Listed
- 1,2-Propanediol 57-55-6 Self classification required (particulates only or total vapour and particulates)

## Canada

### Labor

#### Canada - WHMIS - Classifications of Substances

- Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy-, branched 68412-54-4 Uncontrolled product according to WHMIS classification criteria
- 1,2-Propanediol 57-55-6 Uncontrolled product according to WHMIS classification criteria

#### Canada - WHMIS - Ingredient Disclosure List

- Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy-, branched 68412-54-4 Not Listed
- 1,2-Propanediol 57-55-6 1 %

### Environment

#### Canada - Council of Ministers of the Environment - Water Quality Guidelines for Freshwater Aquatic Life

- Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy-, branched 68412-54-4 Not Listed
- 1,2-Propanediol 57-55-6 500000 µg/L (listed under Glycols)

## Europe

### Other

#### EU - Endocrine Disruptors (COM (2001)262) - Candidate List of Substances

- Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy-, branched 68412-54-4 Group III Chemical
- 1,2-Propanediol 57-55-6 Not Listed

#### EU - Export and Import Restrictions (649/2012) - Chemicals Qualifying for PIC Notification

- Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy-, branched 68412-54-4 Banned as a pesticide; Severe restriction as an industrial chemical
- 1,2-Propanediol 57-55-6 Not Listed

#### EU - Export and Import Restrictions (649/2012) - Chemicals Subject to Export Notification Procedure

- Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy-, branched 68412-54-4 Severe restriction as an industrial chemical for professional use; Banned as a pesticide in the group of plant protection products; Banned as other pesticide including biocides
- 1,2-Propanediol 57-55-6 Not Listed

## Germany

### Environment

#### Germany - Water Classification (VwVwS) - Annex 2 - Water Hazard Classes

- Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy-, branched 68412-54-4 Not Listed

•1,2-Propanediol	57-55-6	ID Number 280, hazard class 1 - low hazard to waters
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## Japan

### Environment

#### Inventory - Japan - Industrial Safety and Health Law Substances (ISHL)

•Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy-, branched	68412-54-4	Not Listed
•1,2-Propanediol	57-55-6	2-(8)-321, 2-(8)-323

### Other

#### Japan - Chemical Substance Control Law (CSCL) - Examined Existing Chemical Substances

•Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy-, branched	68412-54-4	Not Listed
•1,2-Propanediol	57-55-6	Readily biodegradable

#### Japan - Fire Service Law - Hazardous Materials

•Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy-, branched	68412-54-4	Not Listed
•1,2-Propanediol	57-55-6	Group 4 - Flammable liquids III (listed under 3rd Class petroleums - soluble)

#### Japan - Japanese Pharmacopoeia Listing - Synthetics

•Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy-, branched	68412-54-4	Not Listed
•1,2-Propanediol	57-55-6	

## 15.2 Chemical Safety Assessment

- No data available

## Section 16 - Other Information

### Relevant Phrases (code & full text)

- H303 - May be harmful if swallowed
- H373 - May cause damage to organs - Kidney/Nephrotoxin through prolonged or repeated exposure via Inhalation
- P260 - Do not breathe dust, fume, gas, mist, vapors and/or spray.
- P280 - Wear protective gloves/protective clothing/eye protection/face protection.
- P301+P312 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician if you feel unwell.
- P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
- P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P314 - Get medical advice/attention if you feel unwell.
- P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

### Classification method for mixtures

- Calculation method.

### Revision Date

- 04 August 2015

### Last Revision Date

- 23 October 2013

### Other Information

- Approved by: Troy Bergstedt, Director of Chemical Research, (218) 628-2217 ext.142.

### Disclaimer/Statement of Liability

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