Safety Data Sheet

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

Distributor • D3 Products

11968 Monarch St
Garden Grove,
CA 928417
www.d3ipinc.com
sds@d3ipinc.com

Telephone (General) • (714) 892-1999

Fax Phone • **(**714)-200-0955

1.4 Emergency telephone number

• 1- 800-255-3924- Within USA and Canada

• +1 813-248-0585- Outside USA and Canada (collect calls accepted)

Section 2: Hazards Identification

EU/EEC

According to EU Directive 1272/2008 (CLP)/REACH 1907/2006 [amended by 453/2010]
According to EU Directive 67/548/EEC (DSD) or 1999/45/EC (DPD)

2.1 Classification of the substance or mixture

CLP • Not classified

2.2 Label Elements

CLP

Precautionary statements

Prevention • 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.

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

DSD/DPD

2.3 Other Hazards

CLP • No data available

DSD/DPD • No data available

UN GHS

According to Third Revised Edition

2.1 Classification of the substance or mixture

UN GHS • Not classified

2.2 Label elements

UN GHS

Precautionary statements

Prevention • 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.

Storage/Disposal • P501 - 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

United States (US)

According to OSHA GHS

2.1 Classification of the substance or mixture

OSHA HCS 2012 • Not classified

2.2 Label elements

OSHA HCS 2012

Precautionary statements

Prevention • Wear protective gloves/protective clothing/eye protection/face protection. - P280

Response • IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician if you feel unwell. - P301+P312
IF ON SKIN: Wash with plenty of soap and water. - P302+P352
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. - P305+P351+P338

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

2.3 Other hazards

OSHA HCS 2012 • No data available

Canada

According to WHMIS

2.1 Classification of the substance or mixture

WHMIS • Not classified

2.2 Label elements

WHMIS • Not classified

2.3 Other hazards

WHMIS • No data available

2.4 Other information

NFPA

See Section 12 for Ecological Information.

Section 3 - Composition/Information on Ingredients

3.1 Substances

3.2 Mixtures

Hazardous Components					
Chemical Name	**Identifiers**	**%(weight)**	**LD50/LC50**	**Classifications According to Regulation/Directive**	**Comments**
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	**WHMIS:** **UN GHS:**Eye Irrit. 2A; Skin Irrit. 3 **EU DSD/DPD:**R36 **EU CLP:** **OSHA HCS 2012:**	
Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy-, branched	**CAS:**68412-54-4	1% TO 5%		**WHMIS:** **UN GHS:** **EU DSD/DPD:** **EU CLP:** **OSHA HCS 2012:**	

European Chemicals Agency – Candidate List of Subst ances 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 and 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

Section 5 - Firefighting Measures

5.1 Extinguishing media

Suitable Extinguishing Media • SMALL FIRES: Dry chemical, CO2, 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 (COx).

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).

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.

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 vapor and particulates); 474 mg/m3 TWA (total vapor and particulates); 10 mg/m3 TWA (particulates only)	10 mg/m3 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/m3 TWA (aerosol and vapor)	150 ppm TWA (total vapor and particulates); 470 mg/m3 TWA (total vapor and particulates); 10 mg/m3 TWA (particulate)	150 ppm TWA (particulates and vapor); 474 mg/m3 TWA (particulates and vapor); 10 mg/m3 TWA (particulates only)	25 ppm TWA; 79 mg/m3 TWA

Exposure Limits/Guidelines (Con't.)		
	Result	**South Africa**
1,2-Propanediol (57-55-6)	TWAs	150 ppm TWA (particulate and vapor); 470 mg/m3 TWA (particulate and vapor); 10 mg/m3 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	**Appearance/Description**	Not relevant
Color	White	**Odor**	Slight acrylic odor
Taste	Not relevant	**Particulate Type**	No data available

Particulate Size	No data available	**Aerosol Type**	No data available
Odor Threshold	No data available	**Physical and Chemical Properties**	Not relevant
General Properties			
Boiling Point	100 C(212 F)	**Melting Point**	0 C(32 F)
Decomposition Temperature	No data available	**Heat of Decomposition**	No data available
pH	4.3	**Specific Gravity/Relative Density**	1.03 Water=1
Density	No data available	**Bulk Density**	No data available
Water Solubility	Dispersible	**Solvent Solubility**	No data available
Viscosity	No data available	**Explosive Properties**	Not relevant
Oxidizing Properties:	Not relevant		
Volatility			
Vapor Pressure	No data available	**Vapor Density**	No data available
Evaporation Rate	< 1 n-Butyl Acetate = 1	**VOC (Wt.)**	No data available
VOC (Vol.)	No data available	**Volatiles (Wt.)**	38.5 %
Volatiles (Vol.)	No data available		
Flammability			
Flash Point	> 200 F(> 93.3333 C)	**UEL**	No data available
LEL	No data available	**Autoignition**	Not relevant
Self-Accelerating Decomposition Temperature (SADT)	Not relevant	**Heat of Combustion (∆Hc)**	No data available
Burning Time	No data available	**Flame Duration**	No data available
Flame Height	No data available	**Flame Extension**	No data available
Ignition Distance	No data available	**Flammability (solid, gas)**	Not relevant
Environmental			
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

Component Name	CAS	Data
1,2-Propanediol (1% TO 5%)	57-55-6	**Acute Toxicity:** orl-rat LD50:20 gm/kg; skn-rbt LD50:20800 mg/kg; **Irritation:** eye-rbt 500 mg/24H MLD; skn-hmn 500 mg/7D MLD

GHS Properties	Classification
Acute toxicity	**EU/CLP•** **UN GHS•** **OSHA HCS 2012•**
Skin corrosion/Irritation	**EU/CLP•** **UN GHS•** **OSHA HCS 2012•**
Serious eye damage/Irritation	**EU/CLP•** **UN GHS•** **OSHA HCS 2012•**
Skin sensitization	**EU/CLP•** **UN GHS•** **OSHA HCS 2012•**
Respiratory sensitization	**EU/CLP•** **UN GHS•** **OSHA HCS 2012•**
Aspiration Hazard	**EU/CLP•** **UN GHS•** **OSHA HCS 2012•**
Carcinogenicity	**EU/CLP•** **UN GHS•** **OSHA HCS 2012•**
Germ Cell Mutagenicity	**EU/CLP•** **UN GHS•** **OSHA HCS 2012•**
Toxicity for Reproduction	**EU/CLP•** **UN GHS•** **OSHA HCS 2012•**
STOT-SE	**EU/CLP•** **UN GHS•** **OSHA HCS 2012•**
STOT-RE	**EU/CLP•** **UN GHS•** **OSHA HCS 2012•**

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

Packaging waste • Dispose of content and/or 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
TDG	NDA	NDA	NDA	NDA	NDA
IMO/IMDG	NDA	NDA	NDA	NDA	NDA
ADN	NDA	NDA	NDA	NDA	NDA

ADR/RID	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.

TDG • Not regulated.

IMO/IMDG • Not regulated.

ADN • Not regulated.

ADR/RID • 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 • No data available

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

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 1% TO 5% Not Listed

●1,2-Propanediol 57-55-6 1% TO 5%

Australia - List of Designated Hazardous Substances - Classification

●Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy-, branched 68412-54-4 1% TO 5% Not Listed

●1,2-Propanediol 57-55-6 1% TO 5% Self classification required (particulates only or total vapor and particulates)

Canada

Labor

Canada - WHMIS - Classifications of Substances

●Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy-, branched	68412-54-4	1% TO 5%	Uncontrolled product according to WHMIS classification criteria
●1,2-Propanediol	57-55-6	1% TO 5%	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	1% TO 5%	Not Listed
●1,2-Propanediol	57-55-6	1% TO 5%	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	1% TO 5%	Not Listed
●1,2-Propanediol	57-55-6	1% TO 5%	500000 µg/L (listed under Glycols)

Europe

Other

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

●Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy-, branched 68412-54-4 1% TO 5% Group III Chemical ●1,2-Propanediol 57-55-6 1% TO 5% Not Listed

EU - Existing Substance Regulation (793/93/EEC) - Evaluation of Existing HPV Chemicals (REPEALED)

●Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy-, branched 68412-54-4 1% TO 5% Not Listed ●1,2-Propanediol 57-55-6 1% TO 5%

EU - Export and Import Restrictions (689/2008) - Chemicals Qualifying for PIC Notification

●Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy-, branched	68412-54-4	1% TO 5%	Banned as a pesticide; Severe restriction as an industrial chemical
●1,2-Propanediol	57-55-6	1% TO 5%	Not Listed

EU - Export and Import Restrictions (689/2008) - Chemicals Subject to Export Notification Procedure

●Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy-, branched	68412-54-4	1% TO 5%	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	1% TO 5%	Not Listed

EU - No-Longer Polymers List (67/548/EEC)

●Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy-, branched	68412-54-4	1% TO 5%	NLP No. 500-209-1 (>1<2.5 mol ethoxylated units)
●1,2-Propanediol	57-55-6	1% TO 5%	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	1% TO 5%	Not Listed
●1,2-Propanediol	57-55-6	1% TO 5%	ID Number 280, hazard class 1 - low hazard to waters

Japan

Environment

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

●Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy-, branched	68412-54-4	1% TO 5%	Not Listed
●1,2-Propanediol	57-55-6	1% TO 5%	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 1% TO 5% Not Listed ●1,2-Propanediol 57-55-6 1% TO 5% Decomposable

Japan - Fire Service Law - Hazardous Materials

●Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy-, branched	68412-54-4	1% TO 5%	Not Listed
●1,2-Propanediol	57-55-6	1% TO 5%	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	1% TO 5%	Not Listed
●1,2-Propanediol	57-55-6	1% TO 5%	

15.2 Chemical Safety Assessment

- No data available

Section 16 - Other Information

Relevant Phrases (code & full text)

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

  R36 - Irritating to eyes.

Classification method for mixtures
- Calculation method.

Last Revision Date
- 13 June 2012

Preparation Date
- 23 October 2013

Other Information

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