

**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 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

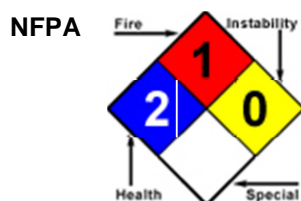
- Not classified

## 2.3 Other hazards

### WHMIS

- No data available

## 2.4 Other information



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 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 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

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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 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 (Cont.)						
	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
<b>General Properties</b>			
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		
<b>Volatility</b>			
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		
<b>Flammability</b>			
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 ( $\Delta H_c$ )	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
<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 Degradation	No data available	Persistence	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	<b>Acute Toxicity:</b> orl-rat LD50:20 gm/kg; skn-rbt LD50:20800 mg/kg; <b>Irritation:</b> 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	<b>Crustacea:</b> 48 Hour(s) EC50 Water Flea 1000 mg/L ; <b>Fish:</b> 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 petroleum - 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

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## 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

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

### Disclaimer/Statement of Liability

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