

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

**1.1 Product identifier**

**Product Name** • **SubTHAT! Prep Wipes**

**Product Description** • Clear liquid

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

**Relevant identified use(s)** • Adhesion promoter surface prep wipes

**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 2015/830]

**2.1 Classification of the substance or mixture**

**CLP** • Flammable Liquids 2 - H225  
 Skin Irritation 2 - H315  
 Eye Irritation 2 - H319  
 Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects - H336

**2.2 Label Elements**

**CLP**

**DANGER**



**Hazard statements** • H225 - Highly flammable liquid and vapor  
 H315 - Causes skin irritation  
 H319 - Causes serious eye irritation  
 H336 - May cause drowsiness or dizziness

**Precautionary statements**

**Prevention** • P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P261 - Avoid breathing dust, fume, gas, mist, vapors and/or spray.  
 P264 - Wash thoroughly after handling.  
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.

- Response** • P302+P352 - IF ON SKIN: Wash with plenty of water and soap.  
 P332+P313 - If skin irritation occurs: Get medical advice/attention.  
 P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P337+P313 - If eye irritation persists: Get medical advice/attention.  
 P321 - Specific treatment, see supplemental first aid information.  
 P362+P364 - Take off contaminated clothing and wash it before reuse.  
 P370+P378 - In case of fire: Use appropriate media to extinguish.

- Storage/Disposal** • P403+P235 - Store in a well-ventilated place. Keep cool.  
 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

## UN GHS Revision 6

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

### 2.1 Classification of the substance or mixture

- UN GHS**
- Flammable Liquids 2
  - Skin Irritation 2
  - Eye Irritation 2
  - Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects

### 2.2 Label elements

**UN GHS**

#### DANGER



- Hazard statements** • Highly flammable liquid and vapor  
 Causes skin irritation  
 Causes serious eye irritation  
 May cause drowsiness or dizziness

#### Precautionary statements

- Prevention** • Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 Avoid breathing dust, fume, gas, mist, vapors and/or spray.  
 Wash thoroughly after handling.  
 Wear protective gloves/protective clothing/eye protection/face protection.
- Response** • IF ON SKIN: Wash with plenty of water and soap.  
 If skin irritation occurs: Get medical advice/attention.  
 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 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.  
 Specific treatment, see supplemental first aid information.  
 Take off contaminated clothing and wash it before reuse.  
 In case of fire: Use appropriate media to extinguish.

- Storage/Disposal** • Store in a well-ventilated place. Keep cool.  
 Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

### 2.3 Other hazards

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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
- Flammable Liquids 2
  - Skin Irritation 2
  - Eye Irritation 2
  - Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects

**2.2 Label elements**

OSHA HCS 2012

**DANGER**

- Hazard statements**
- Highly flammable liquid and vapor
  - Causes skin irritation
  - Causes serious eye irritation
  - May cause drowsiness or dizziness

**Precautionary statements**

- Prevention**
- Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking.
  - Avoid breathing dust, fume, gas, mist, vapors and/or spray.
  - Wash thoroughly after handling.
  - Wear protective gloves/protective clothing/eye protection/face protection.
- Response**
- IF ON SKIN: Wash with plenty of soap and water.
  - If skin irritation occurs: Get medical advice/attention.
  - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
  - 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.
  - Specific treatment, see supplemental first aid information.
  - Take off contaminated clothing and wash before reuse.
  - In case of fire: Use appropriate media to extinguish.

- Storage/Disposal**
- Store in a well-ventilated place. Keep cool.
  - 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

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**Canada**

According to: WHMIS 2015

**2.1 Classification of the substance or mixture**

- WHMIS 2015
- Flammable Liquids 2
  - Skin Irritation 2
  - Eye Irritation 2
  - Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects

**2.2 Label elements**

WHMIS 2015

**DANGER**



**Hazard statements**

- Highly flammable liquid and vapor
- Causes skin irritation
- Causes serious eye irritation
- May cause drowsiness or dizziness

**Precautionary statements**

**Prevention**

- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- Avoid breathing dust, fume, gas, mist, vapors and/or spray.
- Wash thoroughly after handling.
- Wear protective gloves/protective clothing/eye protection/face protection.

**Response**

- IF ON SKIN: Wash with plenty of water and soap.
- If skin irritation occurs: Get medical advice/attention.
- IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- 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.
- Specific treatment, see supplemental first aid information.
- Take off contaminated clothing and wash it before reuse.
- In case of fire: Use appropriate media to extinguish.

**Storage/Disposal**

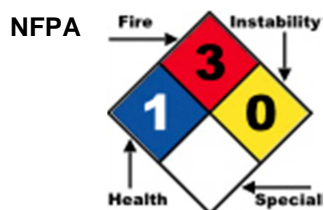
- Store in a well-ventilated place. Keep cool.
- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

**2.3 Other hazards**

**WHMIS 2015**

- No data available

**2.4 Other information**



**Section 3 - Composition/Information on Ingredients**

**3.1 Substances**

**3.2 Mixtures**

Composition				
Chemical Name	Identifiers	%	LD50/LC50	Classifications According to Regulation/Directive
Isopropyl alcohol	CAS:67-63-0 EINECS:200-661-7	50% TO 52%	Ingestion/Oral-Rat LD50 • 5000 mg/kg Skin-Rabbit LD50 • 12800 mg/kg Inhalation-Rat LC50 • 72600 mg/m³	EU CLP / UN GHS Revision 6 / OSHA HCS 2012 / WHMIS 2015: Flam. Liq. 2; Eye Irrit. 2; STOT SE 3: Narc.
Acetic acid	CAS:64-19-7 EINECS:200-580-7	1% TO 2%	Ingestion/Oral-Rat LD50 • 3310 mg/kg Skin-Rabbit LD50 • 1060 mg/kg Inhalation-Rat LC50 • 11000 mg/m³ 4 Hour(s)	EU CLP / UN GHS Revision 6 / OSHA HCS 2012 / WHMIS 2015: Skin Corr. 1; Eye Dam. 1; Flam. Liq. 3
1-Propanol, 3-(trimethoxysilyl)-, methacrylate	CAS:2530-85-0 EINECS:219-785-8	1% TO 2%	Ingestion/Oral-Rat LD50 • 22600 µL/kg	EU CLP / UN GHS Revision 6 / OSHA HCS 2012 / WHMIS 2015: Flam. Liq. 4

## Section 4 - First Aid Measures

### 4.1 Description of first aid measures

- Inhalation** • IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- Skin** • IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.
- 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

## Section 5 - Firefighting Measures

### 5.1 Extinguishing media

- Suitable Extinguishing Media** • In case of fire use media as appropriate for surrounding fire.

- 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.  
Material is non-combustible and is not expected to pose a fire or explosion hazard.

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

- Unusual Fire and Explosion Hazards** • HIGHLY FLAMMABLE: Will be easily ignited by heat, sparks or flames.

- Hazardous Combustion Products** • Products of combustion include: carbon oxides (COx), nitrogen oxides (NOx).

### 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** • Ensure adequate ventilation to remove vapors, fumes, dust etc.
- Emergency Procedures** • ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).

### 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. Keep away from fire. Keep away from heat and sparks.

### 7.2 Conditions for safe storage, including any incompatibilities

- Storage**
- Store in a well-ventilated place. Keep container tightly closed. Keep away from fire.

### 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**
- No data available.

### 8.2 Exposure controls

- Engineering Measures/Controls**
- Local exhaust is recommended but not required. Provide adequate ventilation as necessary.

### Personal Protective Equipment

#### Pictograms



#### Respiratory

- Do not breathe vapors or mists.

#### Eye/Face

- Avoid contact with product.

#### Hands

- Wear appropriate gloves.

#### Skin/Body

- Minimize contact with product.

#### 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 Basic Physical and Chemical Properties

Material Description			
Physical Form	Liquid fully absorbed in solid	Appearance/Description	Clear liquid.
Color	Colorless liquid in white fabric.	Odor	Isopropyl alcohol. Acetic acid.
Odor Threshold	No data available		
General Properties			
Boiling Point	No data available	Melting Point/Freezing Point	No data available
Decomposition Temperature	No data available	pH	3
Specific Gravity/Relative Density	No data available	Water Solubility	Miscible
Viscosity	Not relevant	Explosive Properties	None.
Oxidizing Properties:	None.		
Volatility			
Vapor Pressure	No data available	Vapor Density	No data available
Evaporation Rate	No data available	Volatiles (Wt.)	75 to 80 %
Flammability			
Flash Point	Not relevant	UEL	Not relevant
LEL	Not relevant	Autoignition	Not relevant

Flammability (solid, gas)	Flammable liquid.		
<b>Environmental</b>			
Octanol/Water Partition coefficient	No data available		

## 9.2 Other Information

- No data available

## 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

- Heat, sparks or open flame.

### 10.5 Incompatible materials

- No data available

### 10.6 Hazardous decomposition products

- Hazardous decomposition products formed under fire conditions - carbon oxides (COx), nitrogen oxides (NOx).

## Section 11 - Toxicological Information

### 11.1 Information on toxicological effects

Components		
Isopropyl alcohol (50% TO 55%)	67-63-0	<b>Acute Toxicity:</b> Ingestion/Oral-Rat LD50 • 5000 mg/kg; <i>Behavioral:General anesthetic</i> ; Inhalation-Rat LC50 • 72600 mg/m <sup>3</sup> ; <i>Behavioral:General anesthetic</i> ; <i>Lungs, Thorax, or Respiration:Other changes</i> ; Skin-Rabbit LD50 • 12800 mg/kg; <b>Irritation:</b> Eye-Rabbit • 100 mg • Severe irritation; Skin-Rabbit • 500 mg • Mild irritation
1-Propanol, 3-(trimethoxysilyl)-, methacrylate (1% TO 2%)	2530-85-0	<b>Acute Toxicity:</b> Ingestion/Oral-Rat LD50 • 22600 µL/kg
Acetic acid (1% TO 2%)	64-19-7	<b>Acute Toxicity:</b> Ingestion/Oral-Rat LD50 • 3310 mg/kg; Inhalation-Rat LC50 • 11000 mg/m <sup>3</sup> 4 Hour(s); Skin-Rabbit LD50 • 1060 mg/kg

GHS Properties	Classification
Acute toxicity	<b>EU/CLP</b> • <b>UN GHS 6</b> • <b>OSHA HCS 2012</b> • <b>WHMIS 2015</b> •
Skin corrosion/Irritation	<b>EU/CLP</b> •Skin Irritation 2 <b>UN GHS 6</b> •Skin Irritation 2 <b>OSHA HCS 2012</b> •Skin Irritation 2 <b>WHMIS 2015</b> •Skin Irritation 2
Serious eye damage/Irritation	<b>EU/CLP</b> •Eye Irritation 2 <b>UN GHS 6</b> •Eye Irritation 2 <b>OSHA HCS 2012</b> •Eye Irritation 2 <b>WHMIS 2015</b> •Eye Irritation 2
Skin sensitization	<b>EU/CLP</b> • <b>UN GHS 6</b> • <b>OSHA HCS 2012</b> • <b>WHMIS 2015</b> •
Respiratory sensitization	<b>EU/CLP</b> • <b>UN GHS 6</b> • <b>OSHA HCS 2012</b> •

	WHMIS 2015•
Aspiration Hazard	EU/CLP• UN GHS 6• OSHA HCS 2012• WHMIS 2015•
Carcinogenicity	EU/CLP• UN GHS 6• OSHA HCS 2012• WHMIS 2015•
Germ Cell Mutagenicity	EU/CLP• UN GHS 6• OSHA HCS 2012• WHMIS 2015•
Toxicity for Reproduction	EU/CLP• UN GHS 6• OSHA HCS 2012• WHMIS 2015•
STOT-SE	EU/CLP•Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects UN GHS 6•Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects OSHA HCS 2012•Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects WHMIS 2015•Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects
STOT-RE	EU/CLP• UN GHS• OSHA HCS 2012• WHMIS 2015•

**Target Organs**

- Central nervous system

**Medical Conditions Aggravated by Exposure**

- No data available.

**Potential Health Effects**

**Inhalation**

**Acute (Immediate)**

- May affect the central nervous system. Symptoms may include dizziness, drowsiness, lethargy, coma and death.

**Chronic (Delayed)**

- Repeated and prolonged exposure may be harmful.

**Skin**

**Acute (Immediate)**

- Causes skin irritation.

**Chronic (Delayed)**

- Repeated and prolonged exposure may cause irritation.

**Eye**

**Acute (Immediate)**

- Causes serious eye irritation.

**Chronic (Delayed)**

- Repeated and prolonged exposure may be harmful.

**Ingestion**

**Acute (Immediate)**

- No specific information available.

**Chronic (Delayed)**

- No specific information available.

**Section 12 - Ecological Information**

**12.1 Toxicity**

Components		
Isopropyl alcohol (50% TO 55%)	67-63-0	<b>Aquatic Toxicity-Fish:</b> 96 Hour(s) LC50 <i>Lepomis macrochirus (Bluegill)</i> >1400 mg/L <b>Aquatic Toxicity-Crustacea:</b> 24 Hour(s) EC50 <i>Daphnia magna (Water Flea)</i> 9714 mg/L <b>Aquatic Toxicity-Algae and Other Aquatic Plant(s):</b> 24 Hour(s) EC50 <i>Chlorococcales (Green Algae Order)</i> 1000 mg/L
Acetic acid (1% TO 2%)	64-19-7	<b>Aquatic Toxicity-Fish:</b> 96 Hour(s) LC50 <i>Lepomis macrochirus, Bluegill</i> 75 mg/L <b>Aquatic Toxicity-Crustacea:</b> 48 Hour(s) EC50 <i>Water flea (Daphnia magna)</i> 65 mg/L <b>Aquatic Toxicity-Algae and Other Aquatic Plant(s):</b> 96 Hour(s) EC50 <i>Navicula seminulum</i> 73.4 mg/L



## 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	3175	Solids containing flammable liquid, n.o.s. (Isopropyl alcohol)	4.1	II	
IMO/IMDG	3175	Solids containing flammable liquid, n.o.s. (Isopropyl alcohol)	4.1	II	
IATA/ICAO	3175	Solids containing flammable liquid, n.o.s. (Isopropyl alcohol)	4.1	II	

#### 14.6 Special precautions for user

- None specified.

#### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

- Not relevant.

#### 14.8 Other information

DOT • Not regulated per 49 CFR 172.102 Special Provision 47.

IMO/IMDG • Not regulated per IMDG, Special Provision 216.

IATA/ICAO • Not regulated per IATA, Special Provision A46.

### Section 15 - Regulatory Information

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

SARA Hazard Classifications • Not classified

State Right To Know				
Component	CAS	MA	NJ	PA
1-Propanol, 3-(trimethoxysilyl)-, methacrylate	2530-85-0	No	No	No
Acetic acid	64-19-7	Yes	Yes	Yes
Isopropyl alcohol	67-63-0	Yes	Yes	Yes

Inventory						
Component	CAS	Australia AICS	Canada DSL	China	EU EINECS	Japan ENCS
1-Propanol, 3-(trimethoxysilyl)-, methacrylate	2530-85-0	Yes	Yes	Yes	Yes	Yes
Acetic acid	64-19-7	Yes	Yes	Yes	Yes	Yes
Isopropyl alcohol	67-63-0	Yes	Yes	Yes	Yes	Yes

Inventory (Con't.)					
Component	CAS	Korea KECL	New Zealand	Philippines PICCS	TSCA
1-Propanol, 3-(trimethoxysilyl)-, methacrylate	2530-85-0	Yes	Yes	Yes	Yes
Acetic acid	64-19-7	Yes	Yes	Yes	Yes
Isopropyl alcohol	67-63-0	Yes	Yes	Yes	Yes

## Australia

### Labor

#### Australia - High Volume Industrial Chemicals List

•Acetic acid	64-19-7	
•1-Propanol, 3-(trimethoxysilyl)-, methacrylate	2530-85-0	Not Listed
•Isopropyl alcohol	67-63-0	

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

•Acetic acid	64-19-7	C R10, R35
•1-Propanol, 3-(trimethoxysilyl)-, methacrylate	2530-85-0	Not Listed
•Isopropyl alcohol	67-63-0	F, Xi R11, R36, R67

## Canada Alberta

### Environment

#### Canada - Alberta - Ambient Air Quality Objectives

•Acetic acid	64-19-7	102 ppbv 1 hour average; 250 µg/m <sup>3</sup> 1 hour average
•1-Propanol, 3-(trimethoxysilyl)-, methacrylate	2530-85-0	Not Listed
•Isopropyl alcohol	67-63-0	3190 ppbv 1 hour average; 7850 µg/m <sup>3</sup> 1 hour average

## Germany

### Environment

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

•Acetic acid	64-19-7	ID Number 93, hazard class 1 - low hazard to waters (>25%)
•1-Propanol, 3-(trimethoxysilyl)-, methacrylate	2530-85-0	Not Listed
•Isopropyl alcohol	67-63-0	ID Number 135, hazard class 1 - low hazard to waters

#### Germany - Water Classification (VwVwS) - Annex 3

•Acetic acid	64-19-7	Not Listed
•1-Propanol, 3-(trimethoxysilyl)-, methacrylate	2530-85-0	ID Number 4427, hazard class 1 - low hazard to waters
•Isopropyl alcohol	67-63-0	Not Listed

## Hong Kong

### Labor

#### Hong Kong - Dangerous Substances Regulations - Classification

•Acetic acid	64-19-7	Corrosive (25 - 90%); Flammable and Corrosive (>90%)
•1-Propanol, 3-(trimethoxysilyl)-, methacrylate	2530-85-0	Not Listed
•Isopropyl alcohol	67-63-0	Flammable (listed under Propanol, all isomers)

## India

### Environment

**India - Hazardous Chemical Rules - List of Hazardous and Toxic Chemicals**

•Acetic acid	64-19-7	
•1-Propanol, 3-(trimethoxysilyl)-, methacrylate	2530-85-0	Not Listed
•Isopropyl alcohol	67-63-0	

**Japan****Labor****Japan - ISHL Dangerous Substances**

•Acetic acid	64-19-7	Flammable substance
•1-Propanol, 3-(trimethoxysilyl)-, methacrylate	2530-85-0	Not Listed
•Isopropyl alcohol	67-63-0	Flammable substance (listed under Substances whose flash points are $\geq 0^{\circ}\text{C}$ and $< 30^{\circ}\text{C}$ )

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

•Acetic acid	64-19-7	Readily biodegradable ([2-688])
•1-Propanol, 3-(trimethoxysilyl)-, methacrylate	2530-85-0	Non-biodegradable/Low bioconcentration ([2-2076])
•Isopropyl alcohol	67-63-0	Readily biodegradable ([2-207])

**Japan - Fire Service Law - Hazardous Materials**

•Acetic acid	64-19-7	Group 4 Flammable liquids; 2nd Class Petroleum - soluble; Hazard rank III
•1-Propanol, 3-(trimethoxysilyl)-, methacrylate	2530-85-0	Group 4 Flammable liquids; 3rd Class Petroleum - insoluble; Hazard rank III
•Isopropyl alcohol	67-63-0	Group 4 Flammable liquids; Alcohols; Hazard rank II

**Singapore****Environment****Singapore - Petroleum and Flammable Materials - Hazard Classes**

•Acetic acid	64-19-7	Not Listed
•1-Propanol, 3-(trimethoxysilyl)-, methacrylate	2530-85-0	Not Listed
•Isopropyl alcohol	67-63-0	3

**15.2 Chemical Safety Assessment**

- No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

**Section 16 - Other Information****Relevant Phrases (code & full text)**

- H225 - Highly flammable liquid and vapor
- H315 - Causes skin irritation
- H319 - Causes serious eye irritation
- H336 - May cause drowsiness or dizziness
- P210 - Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking.
- P261 - Avoid breathing dust, fume, gas, mist, vapors and/or spray.
- P264 - Wash thoroughly after handling.
- P280 - Wear protective gloves/protective clothing/eye protection/face protection.
- P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
- P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P321 - Specific treatment, see supplemental first aid information.
- P332+P313 - If skin irritation 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 appropriate media for extinction.

P403+P235 - Store in a well-ventilated place. Keep cool.

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

**Classification method for mixtures**

- Calculation method.

**Last Revision Date**

- N/A

**Preparation Date**

- 06 November 2017

**Other Information**

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

**Disclaimer/Statement of Liability**

- The information contained herein is based on data available to us and is believed to be correct. Since this information may have been obtained in part from independent laboratories or other sources not under direct supervision, no representation is made that the information is accurate, reliable, complete, or representative and Buyer may rely thereon only at the Buyer's risk. We make no guarantee that the health and safety precautions we have suggested will be adequate for all individuals and / or situations involving its handling and uses. No warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. Vendor assumes no responsibility for injury to vendee or third person proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet.