# **Safety Data Sheet**



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

#### 1.1 Product identifier

**Product Name** Chroma/Tech WR Emulsion

**Product Description** • Blue liquid

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

Relevant identified use(s) Water-based emulsion

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** 

• Skin Sensitization 1 - H317 Eye Irritation 2 - H319

Hazardous to the aquatic environment Chronic 3 - H412

EUH208 - Contains sensitizing substance (2-Propenoic acid, 2-(hydroxymethyl)-2-(((1oxo-2-propenyl)oxy)methyl)-1,3-propanediyl ester; Pentaerythritol Tetraacrylate). May

produce an allergic reaction.

#### 2.2 Label Elements

**CLP** 

#### WARNING



Hazard statements • H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

H412 - Harmful to aquatic life with long lasting effects

**Precautionary** statements

**Prevention** • P261 - Avoid breathing dust, fume, gas, mist, vapors and/or spray.

P264 - Wash thoroughly after handling.

P272 - Contaminated work clothing should not be allowed out of the workplace.

P273 - Avoid release to the environment.

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

**Response** • 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.

P302+P352 - IF ON SKIN: Wash with plenty of soap and water.

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

P321 - Specific treatment, see supplemental first aid information.

P363 - Wash contaminated clothing before reuse.

**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

#### **UN GHS**

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

#### 2.1 Classification of the substance or mixture

**UN GHS** 

• Skin Irritation 3 - H316

Skin Sensitization 1 - H317 Eye Irritation 2 - H319

Hazardous to the aquatic environment Acute 3 - H402 Hazardous to the aquatic environment Chronic 3 - H412

#### 2.2 Label elements

**UN GHS** 

#### WARNING



Hazard statements • H316 - Causes mild skin irritation

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

H402 - Harmful to aquatic life

H412 - Harmful to aquatic life with long lasting effects

# Precautionary statements

**Prevention** • P261 - Avoid breathing dust, fume, gas, mist, vapors and/or spray.

P264 - Wash thoroughly after handling.

P272 - Contaminated work clothing should not be allowed out of the workplace.

P273 - Avoid release to the environment.

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

**Response** • 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.

P302+P352 - IF ON SKIN: Wash with plenty of soap and water.

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

P321 - Specific treatment, see supplemental first aid information.

P363 - Wash contaminated clothing before reuse.

**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 29 CFR 1910.1200 HCS

#### 2.1 Classification of the substance or mixture

OSHA HCS 2012

Skin Sensitization 1 - H317
 Eve Irritation 2 - H319

# 2.2 Label elements

**OSHA HCS 2012** 

#### WARNING



# Hazard statements • May cause an allergic skin reaction - H317

Causes serious eye irritation - H319

# Precautionary statements

Prevention • Avoid breathing dust, fume, gas, mist, vapors and/or spray. - P261

Wash thoroughly after handling. - P264

Contaminated work clothing should not be allowed out of the workplace. - P272 Wear protective gloves/protective clothing/eye protection/face protection. - P280

Response • IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. - P305+P351+P338
If eye irritation persists: Get medical advice/attention. - P337+P313
IF ON SKIN: Wash with plenty of soap and water. - P302+P352

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

Specific treatment, see supplemental first aid information. - P321

Wash contaminated clothing before reuse. - P363

**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 2015** 

#### 2.1 Classification of the substance or mixture

**WHMIS 2015** 

Skin Sensitization 1 - H317
 Eye Irritation 2 - H319

#### 2.2 Label elements

**WHMIS 2015** 

#### WARNING



# **Hazard statements •** May cause an allergic skin reaction - H317 Causes serious eye irritation - H319

Precautionary statements

Prevention • Avoid breathing dust, fume, gas, mist, vapors and/or spray. - P261
 Wash thoroughly after handling. - P264
 Contaminated work clothing should not be allowed out of the workplace. - P272

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

**Response** • IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. - P305+P351+P338

If eye irritation persists: Get medical advice/attention. - P337+P313
IF ON SKIN: Wash with plenty of soap and water. - P302+P352

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

Specific treatment, see supplemental first aid information. - P321

Wash contaminated clothing before reuse. - P363

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

#### 2.3 Other hazards

**WHMIS 2015** 

• 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		
Ethoxylated pentaerythritol tetraacrylate	CAS:51728-26-8	10% TO 15%		GHS / CLP / OSHA / WHMIS: Eye Irrit.		
aromatic urethane acrylate	NDA	4% TO 5%		GHS: Eye Irrit. 2B; Skin Irrit. 3 CLP / OSHA / WHMIS: Eye Irrit. 2		
Benzophenone	CAS:119-61-9 EINECS:204-337-6	1% TO 2%	Ingestion/Oral-Rat LD50 • >10 g/kg Skin-Rabbit LD50 • 3535 mg/kg	GHS / CLP: Aquatic Acute 1; Aquatic Chronic 1; Eye Irrit. 2; Skin Irrit. 2 OSHA / WHMIS: Eye Irrit. 2; Skin Irrit. 2		
1-hydroxycyclohexyl phenyl ketone	CAS:947-19-3 EC Number:213- 426-9 EINECS:213-426-9	1% TO 2%		GHS / CLP / OSHA / WHMIS: Acute Tox. Oral 5; Eye Irrit. 2A; Skin Irrit. 2		
2-Propenoic acid, 2- (hydroxymethyl)-2-(((1-oxo-2- propenyl)oxy)methyl)-1,3- propanediyl ester	CAS:3524-68-3 EC Number:222- 540-8 EU Index:607-110- 00-3 EINECS:222-540-8	<= 1%	Ingestion/Oral-Rat LD50 • 1830 mg/kg Skin-Rabbit LD50 • 4 mL/kg	GHS / CLP / OSHA / WHMIS: Skin Irrit. 2; Skin Sens. 1		
Pentaerythritol Tetraacrylate	CAS:4986-89-4 EC Number:225- 644-1 EU Index:607-122- 00-9 EINECS:225-644-1	<= 1%		GHS / CLP / OSHA / WHMIS: Eye Irrit. 2A; Skin Irrit. 2; Skin Sens. 1		

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

1-Butanone, 2-(dimethylamino)-1-(4-(4-morpholinyl)phenyl)-2-(phenylmethyl), CAS #119313-12-1; (2-benzyl-2dimethylamino-4'-morpholinobutyrophenone); listed 16/01/2020; <0.6%

# 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. 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** • SMALL FIRES: Dry chemical, CO2, water spray or regular foam.

Media

LARGE FIRE: Water spray, fog or regular foam.

Unsuitable

• No data available

**Extinguishing Media** 

Firefighting Procedures • LARGE FIRES: Use extinguishing agent suitable for type of surrounding fire.

Fire fighters should wear complete protective clothing including self-contained breathing

apparatus.

Keep unauthorized personnel away. Ventilate closed spaces before entering.

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

Unusual Fire and

**Explosion Hazards** 

Material may burn, but does not ignite readily.

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

# 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 damaged containers or spilled material unless wearing appropriate protective clothing. 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

#### 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

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

# 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 Control Notations**

**Germany DFG** 

•2-Propenoic acid, 2-(hydroxymethyl)-2-(((1-oxo-2-propenyl)oxy)methyl)-1,3-propanediyl ester (3524-68-3): Sensitizers: (skin sensitizer)

### 8.2 Exposure controls

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

#### **Personal Protective Equipment**

**Pictograms** 







#### Respiratory

• Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or symptoms are experienced.

#### 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** • No data available

Controls

# Section 9 - Physical and Chemical Properties

# 9.1 Information on Physical and Chemical Properties

Material Description			
Physical Form	Liquid	Appearance/Description	Viscous liquid.
Color	Blue	Odor	Slight acrylic odor.
Odor Threshold	No data available		
General Properties			
Boiling Point	100 C (212 F)	Melting Point	Not relevant
Decomposition Temperature	Not relevant	рН	4.5 to 5
Specific Gravity/Relative Density	No data available	Density	8.91 lbs/gal
Water Solubility	Miscible	Viscosity	15000 Centipoise (cPs, cP) or mPas @ 25 C(77 F)
Explosive Properties	Not relevant	Oxidizing Properties:	Not relevant
Volatility	-		•
Vapor Pressure	Not relevant	Vapor Density	Not relevant
Evaporation Rate	Not relevant	VOC (Vol.)	Not relevant
Volatiles (Wt.)	50 to 55 %		
Flammability			
Flash Point	>100 C (212 F)	UEL	Not relevant
LEL	Not relevant	Autoignition	Not relevant
Flammability (solid, gas)	Not relevant		
Environmental			
Half-Life	No data available	Octanol/Water Partition coefficient	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

• Polymerizes to solid/semisolid form upon exposure to UV radiation.

# Section 10: Stability and Reactivity

# 10.1 Reactivity

• No dangerous reaction known under conditions of normal use.

# 10.2 Chemical stability

• UV reactive.

# 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), nitrogen oxides (NOx).

# **Section 11 - Toxicological Information**

# 11.1 Information on toxicological effects

Component Name	CAS	Data
Benzophenone (1% TO 2%)	119-61-9	Acute Toxicity: orl-rat LD50:>10 gm/kg; Skin-Rabbit LD50 • 3535 mg/kg

2-Propenoic acid, 2-(hydroxymethyl)-2- (((1-oxo-2-propenyl)oxy)methyl)-1,3- propanediyl ester (<= 1%)	3524-68-3	Acute Toxicity: orl-rat LD50:1830 mg/kg; skn-rbt LD50:4 mL/kg; Irritation: eye-rbt 1 mg SEV; skn-rbt 500 mg MOD	
GHS Properties	Classification		
Skin corrosion/Irritation	EU/CLP• OSHA HCS 20 UN GHS• Skin WHMIS 2015•	· · ·	
Skin sensitization	EU/CLP•Skin Sensitizer 1 OSHA HCS 2012•Skin Sensitizer 1 UN GHS•Skin Sensitizer 1 WHMIS 2015• Skin Sensitizer 1		
Serious eye damage/Irritation	UN GHS•Eye I	12•Eye Irritation 2	

Route(s) of entry/exposure

Skin, Eye

**Potential Health Effects** 

Inhalation

Acute (Immediate)

• May cause irritation.

Chronic (Delayed)

Repeated and prolonged exposure may cause irritation.

Skin

Acute (Immediate)

• May cause mild irritation. May cause an allergic skin reaction.

**Chronic (Delayed)** 

• Repeated and prolonged exposure may cause sensitization.

Eye

Acute (Immediate)

Causes eye irritation.

Chronic (Delayed)

• Repeated and prolonged exposure may be harmful.

Ingestion

Acute (Immediate)

• May cause irritation.

**Chronic (Delayed)** 

• No specific information available.

# **Section 12 - Ecological Information**

# **12.1 Toxicity**

Component	CAS	Data	Comments
Benzophenone (1% TO 2%)	1114-61-4	Crustacea: 24 Hour(s) EC50 Crustacea .28 mg/L; Fish: 96 Hour(s) LC50 Fish 14.2 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

**Potential Environmental** 

• May cause long lasting harmful effects to aquatic life.

**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

 Avoid release to the environment. 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 • Acute

Inventory						
Component	CAS	Australia AICS	Canada DSL	Canada NDSL	China	EU EINECS
1-hydroxycyclohexyl phenyl ketone	947-19-3	Yes	Yes	No	Yes	Yes
2-Propenoic acid, 2- (hydroxymethyl)-2- (((1-oxo-2- propenyl)oxy)methyl)- 1,3-propanediyl ester	3524-68-3	Yes	Yes	No	Yes	Yes
Benzophenone	119-61-9	Yes	Yes	No	Yes	Yes
Ethoxylated pentaerythritol tetraacrylate	51728-26- 8	Yes	No	Yes	Yes	No
Pentaerythritol Tetraacrylate	4986-89-4	Yes	Yes	No	Yes	Yes
			Inventory (Con	n't.)		
Component	CAS	Japan ENCS	Korea KECL	New Zealand	Philippines PICCS	TSCA
1-hydroxycyclohexyl phenyl ketone	947-19-3	Yes	Yes	Yes	Yes	Yes
2-Propenoic acid, 2- (hydroxymethyl)-2-	3524-68-3	Yes	Yes	Yes	Yes	Yes

(((1-oxo-2- propenyl)oxy)methyl)- 1,3-propanediyl ester						
Benzophenone	119-61-9	Yes	Yes	Yes	Yes	Yes
Ethoxylated pentaerythritol tetraacrylate	51728-26- 8	Yes	Yes	Yes	No	Yes
Pentaerythritol Tetraacrylate	4986-89-4	Yes	Yes	Yes	Yes	Yes

# **Australia**

Labor	
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Labor		
Australia - List of Designated Hazardous Substances - Classification		
<ul> <li>2-Propenoic acid, 2-(hydroxymethyl)-2-(((1-oxo-2-propenyl)oxy)methyl)-1,3-propanediyl ester</li> </ul>	3524-68-3	Xi R36/38, R43
Pentaerythritol Tetraacrylate	4986-89-4	Xi R36/38, R43
•1-hydroxycyclohexyl phenyl ketone	947-19-3	Not Listed
•Benzophenone	119-61-9	Not Listed
•Ethoxylated pentaerythritol tetraacrylate	51728-26-8	Not Listed
Europe		
Other		
EU - Endocrine Disrupters (COM (2001)262) - Candidate List of Substances		
•2-Propenoic acid, 2-(hydroxymethyl)-2-(((1-oxo-2-propenyl)oxy)methyl)-1,3-propanediyl ester	3524-68-3	Not Listed
Pentaerythritol Tetraacrylate	4986-89-4	Not Listed
•1-hydroxycyclohexyl phenyl ketone	947-19-3	Not Listed
•Benzophenone	119-61-9	Group III Chemical
•Ethoxylated pentaerythritol tetraacrylate	51728-26-8	Not Listed
EU - No-Longer Polymers List (67/548/EEC)		
•2-Propenoic acid, 2-(hydroxymethyl)-2-(((1-oxo-2-propenyl)oxy)methyl)-1,3-propanediyl ester	3524-68-3	Not Listed
Pentaerythritol Tetraacrylate	4986-89-4	Not Listed
•1-hydroxycyclohexyl phenyl ketone	947-19-3	Not Listed
•Benzophenone	119-61-9	Not Listed
•Ethoxylated pentaerythritol tetraacrylate	51728-26-8	NLP No. 500-111-9 (>1<8.5 mol ethoxylated units)
Germany		
Environment		
Germany - Water Classification (VwVwS) - Annex 3		
•2-Propenoic acid, 2-(hydroxymethyl)-2-(((1-oxo-2-propenyl)oxy)methyl)-1,3-propanediyl	3524-68-3	Not Listed
ester	1000 00 1	Not Listed
Pentaerythritol Tetraacrylate	4986-89-4	Not Listed ID Number 2124, not
•1-hydroxycyclohexyl phenyl ketone	947-19-3	considered hazardous to water
•Benzophenone	119-61-9	ID Number 2024, hazard class 2 - hazard to waters
•Ethoxylated pentaerythritol tetraacrylate	51728-26-8	Not Listed
Japan		
Environment		
Japan - Pollutant Release Transfer Register (PRTR) - Class 1 Substances		
•2-Propenoic acid, 2-(hydroxymethyl)-2-(((1-oxo-2-propenyl)oxy)methyl)-1,3-propanediyl	3524-68-3	Not Listed
ester	3324-00-3	NOT LISTEU

•Pentaerythritol Tetraacrylate

Pentaerythritol Tetraacrylate

•Benzophenone

•1-hydroxycyclohexyl phenyl ketone

•Ethoxylated pentaerythritol tetraacrylate

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

•2-Propenoic acid, 2-(hydroxymethyl)-2-(((1-oxo-2-propenyl)oxy)methyl)-1,3-propanediyl

4986-89-4

947-19-3

119-61-9

51728-26-8

3524-68-3

4986-89-4

Not Listed

Not Listed

403 >=1 %

Not Listed

Not Listed

Not Listed

•1-hydroxycyclohexyl phenyl ketone •Benzophenone	947-19-3 119-61-9	7-(4)-697 Not Listed
•Ethoxylated pentaerythritol tetraacrylate	51728-26-8	Not Listed
Other  Japan - Chemical Substance Control Law (CSCL) - Examined Existing Chemical Sul	ostances	
•2-Propenoic acid, 2-(hydroxymethyl)-2-(((1-oxo-2-propenyl)oxy)methyl)-1,3-propanediyl ester	3524-68-3	Non-biodegradable/Low bioconcentration
Pentaerythritol Tetraacrylate	4986-89-4	Not Listed
•1-hydroxycyclohexyl phenyl ketone	947-19-3	Not Listed
•Benzophenone	119-61-9	Non-biodegradable/Low bioconcentration
<ul> <li>Ethoxylated pentaerythritol tetraacrylate</li> <li>Japan - Fire Service Law - Hazardous Materials</li> </ul>	51728-26-8	Not Listed
•2-Propenoic acid, 2-(hydroxymethyl)-2-(((1-oxo-2-propenyl)oxy)methyl)-1,3-propanediyl ester	3524-68-3	Group 4 - Flammable liquids III (listed under 3rd Class petroleums - insoluble)
Pentaerythritol Tetraacrylate	4986-89-4	Not Listed
•1-hydroxycyclohexyl phenyl ketone	947-19-3	Not Listed
•Benzophenone	119-61-9	Not Listed
•Ethoxylated pentaerythritol tetraacrylate	51728-26-8	Not Listed
Korea		
Labor Korea - ISHA - Name, Toxicity and Protective Measures of New Chemical Substance	es	

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•2-Propenoic acid, 2-(hydroxymethyl)-2-(((1-oxo-2-propenyl)oxy)methyl)-1,3-propanediyl ester	3524-68-3	Not Listed
•Pentaerythritol Tetraacrylate	4986-89-4	Not Listed
•1-hydroxycyclohexyl phenyl ketone	947-19-3	Not Listed
•Benzophenone	119-61-9	Not Listed
•Ethoxylated pentaerythritol tetraacrylate	51728-26-8	

#### **United States - California**

#### **Environment**

U.S California - Proposition 65 - Carcinogens List  •2-Propenoic acid, 2-(hydroxymethyl)-2-(((1-oxo-2-propenyl)oxy)methyl)-1,3-propanediyl ester	3524-68-3	Not Listed
Pentaerythritol Tetraacrylate  1-hydroxycyclohexyl phenyl ketone	4986-89-4 947-19-3	Not Listed Not Listed
•Benzophenone	119-61-9	carcinogen, initial date 6/22/12
•Ethoxylated pentaerythritol tetraacrylate	51728-26-8	Not Listed

# 15.2 Chemical Safety Assessment

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

#### 15.3 Other Information

• California Proposition 65: This product can expose you to chemicals known to the State of California to cause cancer:

Benzophenone CAS #119-61-9 1-2%

#### **Section 16 - Other Information**

#### Relevant Phrases (code & full text)

• H316 - Causes mild skin irritation

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

H402 - Harmful to aquatic life

H412 - Harmful to aquatic life with long lasting effects

P261 - Avoid breathing dust, fume, gas, mist, vapors and/or spray.

P264 - Wash thoroughly after handling.

P272 - Contaminated work clothing should not be allowed out of the workplace.

P273 - Avoid release to the environment.

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

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. P321 - Specific treatment, see supplemental first aid information.

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

P337+P313 - If eye irritation persists: Get medical advice/attention.

P363 - Wash contaminated clothing before reuse.

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

EUH208 - Contains sensitizing substance. May produce an allergic reaction.

#### Classification method for mixtures

Calculation method

**Last Revision Date** 

• 02 August 2018

**Preparation Date** 

• 17 February 2020

Other Information

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

# Liability

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