Safety Data Sheet



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

1.1 Product identifier

Product Name • ChromaTech DEX 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

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

EUH208 - Contains sensitizing substance (Aromatic urethane acrylate; 2-Propenoic acid,

2-(hydroxymethyl)-2-(((1-oxo-2-propenyl)oxy)methyl)-1,3-propanediyl ester;

Pentaerythritol tetraacrylate)

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

CLPNo 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 - H422 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 eve 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
 Eye 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. 2		
aromatic urethane acrylate	NDA	3% TO 4%		GHS / CLP / OSHA / WHMIS: Eye Irrit. 2B; Skin Irrit. 3; Skin Sens. 1		
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 OSHA / WHMIS: Eye 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. 2; 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

Media

Suitable Extinguishing • SMALL FIRES: Dry chemical, CO2, water spray or regular foam.

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

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	No data available
Specific Gravity/Relative Density	No data available	Density	8.9 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.)	55 to 60 %		
Flammability	-	-	
Flash Point	No data available	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	EU/CLP•Eye Iri OSHA HCS 20' UN GHS•Eye Ir WHMIS 2015• I	12•Eye Irritation 2 ritation 2A	

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	'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

Europe

Ot	her
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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	3524-68-3	Not Listed
ester	002.000	. 101 =10100
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		

G

Environment

Germany - Water Classification (VwVwS) - Annex 3 •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	ID Number 2124, not 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 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	403 >=1 %
•Ethoxylated pentaerythritol tetraacrylate	51728-26-8	Not Listed
Inventory - Japan - Industrial Safety and Health Law Substances (ISHL)		
•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	7-(4)-697
•Benzophenone	119-61-9	Not Listed
•Ethoxylated pentaerythritol tetraacrylate	51728-26-8	Not Listed

Other Japan - Chemical Substance Control Law (CSCL) - Examined Existing Chemical Su	bstances	
•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
•Ethoxylated pentaerythritol tetraacrylate Japan - Fire Service Law - Hazardous Materials	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

Rollar Tollar To		
•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	

Korea - ISHA - Name Toxicity and Protective Measures of New Chemical Substances

United States - California

Environment

U.S California - F	Proposition 65	- Carcinogens	List
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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	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%

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

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

Classification method

for mixtures

Calculation method.

Last Revision Date Preparation Date

• 03 August 2018 • 17 February 2020

Other Information

Liability

Disclaimer/Statement of • 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.

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