

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

1.1 Product identifier	
Product Name	• Razor Film
Product Description	• Blue film.
1.2 Relevant identified	uses of the substance or mixture and uses advised against
Relevant identified use(s)	Photostencil film
1.3 Details of the suppli	ier of the safety data sheet
Manufacturer	IKONICS Corporation
	4832 Grand Ave. Duluth, MN 55807 United States www.ikonics.com sds@ikonics.com
Telephone (Genera	I) • (218) 628-2217
Telephone (Genera	I) ● (800) 328-4261 - Toll free
1.4 Emergency telephone	ne 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 2015/830]

2.1 Classification of the substance or mixture

CLP • Skin Sensitization 1 - H317 Hazardous to the aquatic environment Chronic 3 - H412 EUH208

2.2 Label Elements

CLP

WARNING



	•
Hazard	 H317 - May cause an allergic skin reaction
statements	H412 - Harmful to aquatic life with long lasting effects
	EUH208 - Contains sensitizing substances (Ethoxylated nonyl phenol acrylate;
	Pentaerythritol Tetraacrylate; 2-Propenoic acid, 2-(hydroxymethyl)-2-(((1-oxo-2- propenyl)oxy)methyl)-1,3-propanediyl ester; Acrylic acid, triester with 2-ethyl-2- (hydroxymethyl)-1,3-propanediol). May produce an allergic reaction.
Precautionary statements	

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

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

2.2 Label elements

UN GHS

WARNING



 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. 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 • P302+P352 - IF ON SKIN: Wash with plenty of soap and water. P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P363 - Wash contaminated clothing before reuse. Storage/Disposal • P501 - Dispose of content and/or container in accordance with local, regional, r and/or international regulations. 2.3 Other hazards UN GHS • No data available 	
 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. 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 • P302+P352 - IF ON SKIN: Wash with plenty of soap and water. P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P363 - Wash contaminated clothing before reuse. Storage/Disposal • P501 - Dispose of content and/or container in accordance with local, regional, r 	
 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. 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 protectior Response • 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. 	national,
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. P272 - Contaminated work clothing should not be allowed out of the workplace P273 - Avoid release to the environment.	
H402 - Harmful to aquatic life H412 - Harmful to aquatic life with long lasting effects Precautionary	
H402 - Harmful to aquatic life	
Hazard statements • H316 – Causes mild skin irritation H317 - May cause an allergic skin reaction	

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

2.2 Label elements

OSHA HCS 2012

	WARNING
Hazard stateme	ents • May cause an allergic skin reaction - H317
Precaution stateme	•
Preven	 Avoid breathing dust, fume, gas, mist, vapors and/or spray P261 Contaminated work clothing should not be allowed out of the workplace P272 Wear protective gloves/protective clothing/eye protection/face protection P280
Respo	 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/Dispe	 Dispose of content and/or container in accordance with local, regional, national, and/ international regulations P501
2.3 Other hazards	
OSHA HCS 2012	No data available
According to WHMIS 2 2.1 Classification of WHMIS 2015 2.2 Label elements	of the substance or mixture • Skin Sensitization 1 - H317
According to WHMIS 2 2.1 Classification of WHMIS 2015 2.2 Label elements	of the substance or mixture • Skin Sensitization 1 - H317
According to WHMIS 2 2.1 Classification of WHMIS 2015 2.2 Label elements	of the substance or mixture • Skin Sensitization 1 - H317
According to WHMIS 2 2.1 Classification of WHMIS 2015 2.2 Label elements WHMIS 2015	of the substance or mixture • Skin Sensitization 1 - H317
According to WHMIS 2 2.1 Classification of WHMIS 2015 2.2 Label elements WHMIS 2015	of the substance or mixture • Skin Sensitization 1 - H317 WARNING Work with the substance or mixture with the substance of
WHMIS 2015 2.2 Label elements WHMIS 2015 Hazard stateme Precaution stateme	of the substance or mixture • Skin Sensitization 1 - H317 WARNING Work with the substance or mixture with the substance of
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According to WHMIS 2 2.1 Classification of WHMIS 2015 2.2 Label elements WHMIS 2015 Hazard stateme Precaution stateme Prevent Respon	 of the substance or mixture Skin Sensitization 1 - H317 WARNING Work and the substance of the substance of
According to WHMIS 2 2.1 Classification of WHMIS 2015 2.2 Label elements WHMIS 2015 Hazard stateme Precaution stateme Prevent Respon	 of the substance or mixture Skin Sensitization 1 - H317 WARNING Work and the substance of the substance of

2.4 Other information

NFPA



See Section 12 for Ecological Information.

Section 3 - Composition/Information on Ingredients

3.1 Substances

3.2 Mixtures

Composition						
Chemical Name	Classifications According to Regulation/Directive					
Aromatic acrylate	CAS:	1% TO 5%		GHS / CLP / OSHA / WHMIS: Skin Irrit. 2; Eye 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% TO 3%		GHS / CLP / OSHA / WHMIS: Eye Irrit. 2; Skin Irrit. 2; Skin Sens. 1		
Benzophenone	CAS:119-61-9 EINECS:204-337-6	0.1% TO 0.3%	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 / CLP: 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	0.4% TO 1.5%	Ingestion/Oral-Rat LD50 • 1830 mg/kg Skin-Rabbit LD50 • 4 mL/kg	GHS / CLP / OSHA / WHMIS: Skin Irrit. 2; Skin Sens. 1		
Acrylic acid, triester with 2-ethyl-2- (hydroxymethyl)-1,3-propanediol	CAS:15625-89-5 EC Number:239-701-3 EU Index:607-111-00-9 EINECS:239-701-3	0.4% TO 1.2%	Ingestion/Oral-Rat LD50 • 5190 µL/kg Skin-Rabbit LD50 • 5170 mg/kg	GHS / CLP / OSHA / WHMIS: Eye Irrit. 2; 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; <0.15%

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 impo	rtant symptoms and effects, both acute and delayed

No data available

4.3 Indication of any immediate medical attention and special treatment needed

5.1 Extinguishing media

Suitable Extinguishing Media	 SMALL FIRES: Dry chemical, CO2, water spray or regular foam. LARGE FIRE: Water spray, fog or regular foam.
Unsuitable Extinguishing Media	No data available
Firefighting Procedures	 LARGE FIRES: Use extinguishing agent suitable for type of surrounding fire. Keep unauthorized personnel away. Ventilate closed spaces before entering.
5.2 Special hazards	arising from the substance or mixture
Unusual Fire and Explosion Hazards	 Some of these materials may burn, but none ignite readily.
Hazardous Combustion Products	• Products of combustion include: carbon oxides (COx), nitrogen oxides (NOx).
5.3 Advice for firefig	hters
	• 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

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 • No special precautions expected to be necessary if material is used under ordinary conditions and as recommended. **Emergency Procedures** • No emergency procedures are expected to be necessary if material is used under ordinary conditions as recommended. 6.2 Environmental precautions

• No data available

6.3 Methods and material for containment and cleaning up

Containment/Clean-up Use appropriate Personal Protective Equipment (PPE) Measures No special precautions or procedures are necessary.

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 s	storage, including any incompatibilities					
Storage	• Store in a cool, dry place.					
Special Packaging Materials	 Package in opaque containers and/or use additional light-blocking materials. 					
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) •Acrylic acid, triester with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (15625-89-5): 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
- Eye/Face
- Hands
- Skin/Body

• Wear protective gloves - rubber or neoprene. Wear protective clothing - apron or other impervious body coverings.

• In case of insufficient ventilation, wear suitable respiratory equipment.

- **General Industrial Hygiene**
- Handle in accordance with good industrial hygiene and safety practice.

Wear protective eyewear (goggles, face shield, or safety glasses).

- Considerations
- **Environmental Exposure Controls**
- No data available

Section 9 - Physical and Chemical Properties

9.1 Information on Physical and Chemical Properties

Material Description			
Physical Form	Solid	Appearance/Description	Film
Color	Blue	Odor	Not relevant
Taste	Not relevant	Odor Threshold	Not relevant
Physical and Chemical Properties	Not relevant		
General Properties			
Boiling Point	Not relevant	Melting Point	No data available
Decomposition Temperature	Not relevant	pН	Not relevant
Specific Gravity/Relative Density	Not relevant	Water Solubility	Soluble
Viscosity	Not relevant	Explosive Properties	Not relevant
Oxidizing Properties:	Not relevant		
Volatility			
Vapor Pressure	Not relevant	Vapor Density	Not relevant
Evaporation Rate	Not relevant		
Flammability			
Flash Point	Not relevant	UEL	Not relevant
LEL	Not relevant	Autoignition	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

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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

- 10.3 Possibility of hazardous reactions
 - Hazardous polymerization will not occur.

10.4 Conditions to avoid

• Excess heat. Strong light.

10.5 Incompatible materials

• No data available

10.6 Hazardous decomposition products

• Hazardous decomposition products formed under fire conditions - carbon oxides, nitrogen oxides.

Section 11 - Toxicological Information

11.1 Information on toxicological effects

Components				
Benzophenone (0.1% TO 0.3%)	119-61- 9	Acute Toxicity: Ingestion/Oral-Rat LD50 • >10 g/kg; Skin-Rabbit LD50 • 3535 mg/kg		
	3524- 68-3	Acute Toxicity: Ingestion/Oral-Rat LD50 • 1830 mg/kg; Gastrointestinal:Ulceration or bleeding from small intestine; Gastrointestinal:Ulceration or bleeding from large intestine; Gastrointestinal:Other changes; Skin-Rabbit LD50 • 4 mL/kg; Irritation: Eye-Rabbit • 1 mg • Severe irritation; Skin-Rabbit • 500 mg • Moderate irritation		
Acrylic acid, triester with 2-ethyl-2- (hydroxymethyl)-1,3-propanediol (0.4% TO 1.2%)	15625- 89-5	Acute Toxicity: Ingestion/Oral-Rat LD50 • 5190 μL/kg; Skin-Rabbit LD50 • 5170 mg/kg		

GHS Properties	Classification
Skin corrosion/Irritation	EU/CLP• OSHA HCS 2012• UN GHS• Skin Irritation 3 Canada WHMIS 2015•
Skin sensitization	EU/CLP•Skin Sensitizer 1 OSHA HCS 2012•Skin Sensitizer 1 UN GHS•Skin Sensitizer 1 Canada WHMIS 2015•Skin Sensitizer 1

Potential Health Effects

Inhalation

Acute (Immediate) Chronic (Delayed)

- May cause irritation.
- No data available

- Skin
- Acute (Immediate)
- Chronic (Delayed)
- Eye
- Acute (Immediate)
- Chronic (Delayed)
- May cause irritation.

• May cause an allergic skin reaction.

• Repeated and prolonged exposure may cause irritation.

• Repeated and prolonged exposure may cause irritation.

Razor Film

Safety Data Sheet

Acute (Immediate) Chronic (Delayed)

- No data available
- No data available

Section 12 - Ecological Information

12.1 Toxicity

Component	CAS	Data	Comments
Benzophenone (0.1% TO 0.3%)	114_61_4	Crustacea: 24 Hour(s) EC50 Crustacea 0.28 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

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.

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

Inventory						
Component	CAS	Australia AICS	Canada DSL	Canada NDSL	China	EU EINECS
2-Propenoic acid, 2- (hydroxymethyl)-2- (((1-oxo-2- propenyl)oxy)methyl)- 1,3-propanediyl ester	3524-68-3	Yes	Yes	No	Yes	Yes
Acrylic acid, triester with 2-ethyl-2- (hydroxymethyl)-1,3- propanediol	15625-89- 5	Yes	Yes	No	Yes	Yes
Benzophenone	119-61-9	Yes	Yes	No	Yes	Yes
Pentaerythritol Tetraacrylate	4986-89-4	Yes	Yes	No	Yes	Yes
	Inventory (Con't.)					
Component	CAS	Japan ENCS	Korea KECL	New Zealand	Philippines PICCS	TSCA
2-Propenoic acid, 2- (hydroxymethyl)-2- (((1-oxo-2- propenyl)oxy)methyl)- 1,3-propanediyl ester	3524-68-3	Yes	Yes	Yes	Yes	Yes
Acrylic acid, triester with 2-ethyl-2- (hydroxymethyl)-1,3- propanediol	15625-89- 5	Yes	Yes	Yes	Yes	Yes
Benzophenone	119-61-9	Yes	Yes	Yes	Yes	Yes
Pentaerythritol Tetraacrylate	4986-89-4	Yes	Yes	Yes	Yes	Yes

Europe

Other

EU - Endocrine Disrupters (COM (2001)262) - Candidate List of Substances•Acrylic acid, triester with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol15625-89-5Not Listed•2-Propenoic acid, 2-(hydroxymethyl)-2-(((1-oxo-2-propenyl)oxy)methyl)-1,3-propanediol3524-68-3Not Listed•Pentaerythritol Tetraacrylate4986-89-4Not Listed•Benzophenone119-61-9Group III Chemical

Germany

Environment

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

•Acrylic acid, triester with 2-ethyl-2-(hydroxymethyl)-1,3-propanediolID Number 1845, hazard class 1 - low hazard to waters•2-Propenoic acid, 2-(hydroxymethyl)-2-(((1-oxo-2-propenyl)oxy)methyl)-1,3-propanediyl ester3524-68-3Not Listed•Pentaerythritol Tetraacrylate4986-89-4Not Listed•Benzophenone119-61-9Not ListedGermany - Water Classification (VwVwS) - Annex 315625-89-5Not Listed•Acrylic acid, triester with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol15625-89-5Not Listed•2-Propenoic acid, 2-(hydroxymethyl)-2-(((1-oxo-2-propenyl)oxy)methyl)-1,3-propanediol3524-68-3Not Listed•2-Propenoic acid, 2-(hydroxymethyl)-2-(((1-oxo-2-propenyl)oxy)methyl)-1,3-propanediolNot Listed15625-89-5Not Listed•2-Propenoic acid, 2-(hydroxymethyl)-2-(((1-oxo-2-propenyl)oxy)methyl)-1,3-propanediol15625-89-5Not Listed•2-Propenoic acid, 2-(hydroxymethyl)-2-(((1-oxo-2-propenyl)oxy)methyl)-1,3-propanediol15625-89-5Not Listed•2-Propenoic acid, 2-(hydroxymethyl)-2-(((1-oxo-2-propenyl)oxy)methyl)-1,3-propanediol15625-89-5Not Listed•Pentaerythritol Tetraacrylate4986-89-4Not Listed10•Benzophenone119-61-9ID Number 2024, hazard class 2 - hazard to waters	Ochinally - Watch Olassification (WWWWO) - Annox Z - Watch Hazara Olassos		
ester3524-68-3Not Listed•Pentaerythritol Tetraacrylate4986-89-4Not Listed•Benzophenone119-61-9Not ListedGermany - Water Classification (VwVwS) - Annex 315625-89-5Not Listed•Acrylic acid, triester with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol15625-89-5Not Listed•2-Propenoic acid, 2-(hydroxymethyl)-2-(((1-oxo-2-propenyl)oxy)methyl)-1,3-propanediyl3524-68-3Not Listed•Pentaerythritol Tetraacrylate4986-89-4Not Listed•Benzonhenone119-61-9ID Number 2024, hazard	•Acrylic acid, triester with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol	15625-89-5	class 1 - low hazard to
•Benzophenone 119-61-9 Not Listed Germany - Water Classification (VwVwS) - Annex 3 15625-89-5 Not Listed •Acrylic acid, triester with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol 15625-89-5 Not Listed •2-Propenoic acid, 2-(hydroxymethyl)-2-(((1-oxo-2-propenyl)oxy)methyl)-1,3-propanediyl 3524-68-3 Not Listed •Pentaerythritol Tetraacrylate 4986-89-4 Not Listed ID Number 2024, hazard		3524-68-3	Not Listed
Germany - Water Classification (VwVwS) - Annex 3 •Acrylic acid, triester with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol •2-Propenoic acid, 2-(hydroxymethyl)-2-(((1-oxo-2-propenyl)oxy)methyl)-1,3-propanediyl) •ester •Pentaerythritol Tetraacrylate •Benzonbenone	Pentaerythritol Tetraacrylate	4986-89-4	Not Listed
 Acrylic acid, triester with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol 2-Propenoic acid, 2-(hydroxymethyl)-2-(((1-oxo-2-propenyl)oxy)methyl)-1,3-propanediyl 3524-68-3 Not Listed 4986-89-4 Not Listed ID Number 2024, hazard 	•Benzophenone	119-61-9	Not Listed
•2-Propenoic acid, 2-(hydroxymethyl)-2-(((1-oxo-2-propenyl)oxy)methyl)-1,3-propanediyl 3524-68-3 Not Listed •Pentaerythritol Tetraacrylate 4986-89-4 Not Listed •Benzonbenone 119-61-9 ID Number 2024, hazard	Germany - Water Classification (VwVwS) - Annex 3		
ester ·Pentaerythritol Tetraacrylate 4986-89-4 Not Listed ID Number 2024, hazard	 Acrylic acid, triester with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol 	15625-89-5	Not Listed
•Benzonbenone 119-61-9 ID Number 2024, hazard		3524-68-3	Not Listed
	Pentaerythritol Tetraacrylate	4986-89-4	Not Listed
	•Benzophenone	119-61-9	- ,

Japan

Other

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

 Acrylic acid, triester with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol 	15625-89-5	Non-biodegradable/Low bioconcentration

 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
•Benzophenone	119-61-9	Non-biodegradable/Low bioconcentration
Japan - Fire Service Law - Hazardous Materials		
•Acrylic acid, triester with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol	15625-89-5	Group 4 - Flammable liquids III (listed under 3rd Class petroleums - insoluble)
•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
•Benzophenone	119-61-9	Not Listed
United States - California		
Environment U.S California - Proposition 65 - Carcinogens List		
 Acrylic acid, triester with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol 	15625-89-5	Not Listed
•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
•Benzophenone	119-61-9	carcinogen, initial date 6/22/12

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 and birth defects or other reproductive harm: Benzophenone CAS #119-61-9 0.1-0.3% Toluene CAS #108-88-3 <0.02%

Section	16 -	Other	Information

Relevant Phrases (code & full text)

	 EUH208 - Contains sensitizing substance. May produce an allergic reaction. H316 - Causes mild skin irritation H317 - May cause an allergic skin reaction 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. 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. P321 - Specific treatment, see supplemental first aid information. P333+P313 - If skin irritation or rash occurs: 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.
Classification method for mixtures	Calculation method.
Last Revision Date	• 06 August 2018
Preparation Date	• 17 February 2020
Other Information	• Approved by: Troy Bergstedt, Director of Chemical Research, (218) 628-2217 ext.142.
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