

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

1.1 Product identifier	
Product Name	Image Mate PC 787
Product Description	Purple 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 suppl	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	l <b>)</b> • (218) 628-2217
Telephone (Genera	al) • (800) 328-4261 - Toll free
1.4 Emergency telepho	ne number

- 1-800-424-9300 Within USA and Canada
- +1 703-527-3887 Outside USA and Canada (collect calls accepted)

# **Section 2: Hazards Identification**

### EU/EEC

According to EU Directive 1272/2008 (CLP)/REACH 1907/2006 [amended by 453/2010] According to EU Directive 67/548/EEC (DSD) or 1999/45/EC (DPD)

### 2.1 Classification of the substance or mixture

CLP	<ul> <li>Skin Irritation 2 - H315</li> <li>Skin Sensitization 1 - H317</li> <li>Eye Irritation 2 - H319</li> <li>Hazardous to the aquatic environment Chronic 3 - H412</li> </ul>
DSD/DPD	Irritant (Xi) R36/37/38, R43, R52/53

# 2.2 Label Elements

CLP

# WARNING



Hazard statements • H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation.

	H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements	
Prevention	<ul> <li>P261 - Avoid breathing dust, fume, gas, mist, vapors and/or spray.</li> <li>P264 - Wash thoroughly after handling.</li> </ul>
	P272 - Contaminated work clothing should not be allowed out of the workplace. P273 - Avoid release to the environment.
Pooponoo	P280 - Wear protective gloves/protective clothing/eye protection/face protection.
Kesponse	<ul> <li>P302+P352 - IF ON SKIN: Wash with plenty of soap and water.</li> <li>P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.</li> <li>P321 - Specific treatment, see supplemental first aid information.</li> <li>P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes.</li> <li>Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P337+P313 - If eye irritation persists: Get medical advice/attention.</li> <li>P362 - Take off contaminated clothing and wash before reuse.</li> </ul>
Storage/Disposal	<ul> <li>P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.</li> </ul>
DSD/DPD	
Risk phrases	<ul> <li>R36/37/38 - Irritating to eyes, respiratory system and skin.</li> <li>R43 - May cause sensitization by skin contact.</li> <li>R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the activity provide the second statement.</li> </ul>
Safety nhrases	<ul><li>aquatic environment.</li><li>S24 - Avoid contact with skin.</li></ul>
	S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S37 - Wear suitable gloves.
	S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
2.3 Other Hazards	
CLP	No data available
DSD/DPD	No data available

### UN GHS According to Third Revised Edition

# 2.1 Classification of the substance or mixture

UN GHS • Skin Irritation 2 - H315 Skin Sensitization 1 - H317 Eye Irritation 2 - H319 Hazardous to the aquatic environment Chronic 3 - H412

# 2.2 Label elements

UN GHS

# WARNING



Hazard statements • H315 - Causes skin irritation. H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation. H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements	
	<ul> <li>P261 - Avoid breathing dust, fume, gas, mist, vapors and/or spray.</li> <li>P264 - Wash thoroughly after handling.</li> <li>P272 - Contaminated work clothing should not be allowed out of the workplace.</li> <li>P273 - Avoid release to the environment.</li> <li>P280 - Wear protective gloves/protective clothing/eye protection/face protection.</li> <li>P302+P352 - IF ON SKIN: Wash with plenty of soap and water.</li> <li>P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.</li> <li>P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes.</li> <li>Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P337+P313 - If eye irritation persists: Get medical advice/attention.</li> <li>P362 - Take off contaminated clothing and wash before reuse.</li> </ul>
Storage/Disposal	<ul> <li>P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.</li> </ul>
2.3 Other hazards	

United States (US) According to OSHA 29 CFR 1910.1200 HCS

### 2.1 Classification of the substance or mixture

OSHA HCS 2012	<ul> <li>Skin Irritation 2 - H315</li> <li>Skin Sensitization 1 - H317</li> <li>Eye Irritation 2 - H319</li> </ul>
OSHA HCS 1994	Irritant
2.2 Label elements	
OSHA HCS 2012	

### WARNING



- Hazard statements H315 Causes skin irritation.
  - 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 • 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.
 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.
 P362 - Take off contaminated clothing and wash before reuse.

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

OSHA HCS 1994 2.3 Other hazards	• Irritant
OSHA HCS 2012	No data available
OSHA HCS 1994	No data available
Canada	

According to WHMIS

# 2.1 Classification of the substance or mixture WHMIS Other Toxic Effects - D2B 2.2 Label elements WHMIS

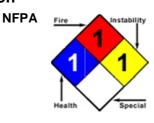


Other Toxic Effects - D2B
2.3 Other hazards

WHMIS

• No data available

# 2.4 Other information



### Key to abbreviations

= See Section 16 for full text of R and S phrases.

See Section 12 for Ecological Information.

# Section 3 - Composition/Information on Ingredients

# 3.1 Substances

# 3.2 Mixtures

Hazardous Components							
Chemical Name	Identifiers	%(weight)	LD50/LC50	D50/LC50 Classifications According to Regulation/Directive			
Ethanol, 2,2',2"- (propylidynetris(methyleneoxy))tri-, triacrylate	- CAS:28961- 5% TO Skip-Rabbit   D50 UN GHS:			WHMIS: UN GHS: EU DSD/DPD: EU CLP:			
Acrylate oligomers		17.5%	NDA	OSHA HCS 1994: WHMIS: UN GHS: EU DSD/DPD: EU CLP: OSHA HCS 2012:			
Isopropyl alcohol	CAS:67-63-0 EC Number:200- 661-7	< 5%	Inhalation-Rat LC50 • 16000 ppm 8 Hour(s) Skin-Rabbit	OSHA HCS 1994: Flam. Liq.; Irrit. WHMIS: Flam. Liq B2; Other Toxic Effects - D2B			

	UN:UN1219 EINECS:200- 661-7		LD50 • 12800 mg/kg Ingestion/Oral-Rat LD50 • 5000 mg/kg	UN GHS: Flam. Liq. 2; Eye Irrit. 2A; STOT SE 3: Narc. EU DSD/DPD: Highly Flammable(F); Irritant(Xi); R11; R36; R67 EU CLP: Flam. Liq. 2; Eye Irrit. 2; STOT SE 3: Narc. OSHA HCS 2012:
1-hydroxycyclohexyl phenyl ketone	<b>CAS</b> :947-19-3 <b>EC</b> <b>Number</b> :213- 426-9 <b>EINECS</b> :213- 426-9	< 2%		OSHA HCS 1994: Irrit. WHMIS: UN GHS: Acute Tox. 5; Eye Irrit. 2A; Skin Irrit. 2 EU DSD/DPD: R36/37/38 EU CLP: Eye Irrit. 2; Skin Irrit. 2 OSHA HCS 2012:
Benzophenone	<b>CAS</b> :119-61-9 <b>EINECS</b> :204- 337-6	< 2%	Ingestion/Oral- Rat LD50 • >10 g/kg Skin-Rabbit LD50 • 3535 mg/kg	OSHA HCS 1994: Irrit. WHMIS: Other Toxic Effects - D2B UN GHS: Aquatic Acute 1; Aquatic Chronic 1; Eye Irrit. 2A; Skin Irrit. 3 EU DSD/DPD: R36/38; R50/53 EU CLP: Aquatic Acute 1; Aquatic Chronic 1; Eye Irrit. 2; Skin Irrit. 2 OSHA HCS 2012:
1-Butanone, 2-(dimethylamino)-1-(4- (4-morpholinyl)phenyl)-2- (phenylmethyl)	<b>CAS:</b> 119313- 12-1 <b>EC</b> <b>Number:</b> 404- 360-3	< 1%	Ingestion/Oral- Rat LD50 • >2000 mg/kg Skin-Rat LD50 • >=2000 mg/kg	OSHA HCS 1994: WHMIS: UN GHS: Aquatic Acute 1; Aquatic Chronic 1 EU DSD/DPD: Environment(N); R50; R53 EU CLP: Aquatic Acute 1; Aquatic Chronic 1 OSHA HCS 2012:

### Key to abbreviations

= See Section 16 for full text of R and S phrases.

See Section 11 for Toxicological Information.

# **Section 4 - First Aid Measures**

### 4.1 Description of first aid measures

Inhalation	• IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration and call 911 or emergency medical service.
Skin	<ul> <li>IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. If skin irritation occurs: Get medical advice/attention.</li> </ul>
Еуе	• 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	<ul> <li>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.</li> </ul>
4.2 Most impo	rtant symptoms and effects, both acute and delayed
	<ul> <li>Refer to Section 11 - Toxicological Information.</li> </ul>
	- for an increase disclosed and increase and an a shell the stress of a solution

# 4.3 Indication of any immediate medical attention and special treatment needed

# 4.4 Other information

• Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.

### Section 5 - Firefighting Measures

### 5.1 Extinguishing media

Suitable Extinguishing<br/>Media• SMALL FIRES: Dry chemical, CO2, water spray or regular foam.<br/>LARGE FIRE: Water spray, fog or regular foam.Unsuitable<br/>Extinguishing Media• No data availableFirefighting Procedures<br/>Extinguishing Langle Contained breathing<br/>apparatus.<br/>Keep unauthorized personnel away.<br/>Ventilate closed spaces before entering.<br/>LARGE FIRES: Use extinguishing agent suitable for type of surrounding fire.

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

 Unusual Fire and<br/>Explosion Hazards
 • Some of these materials may burn, but none ignite readily.

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

 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.

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).

### 5.4 Other information

• Runoff may pollute waterways.

### 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. Do not touch or walk through spilled material. Contact may irritate or burn skin and eyes.
- **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
 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. Do not expose to sunlight or white room light. Handle under yellow room lights to prevent polymerization due to UV exposure.

### 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. Ventilate enclosed areas.

**Special Packaging** • Package in opaque containers and/or use additional light-blocking materials. **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 Limits/Guidelines										
	Result	ACGIH	Argentina	Australia	Belgium	Brazil				
Isopropyl alcohol	STELs	400 ppm STEL	500 ppm STEL [CMP-CPT]	500 ppm STEL; 1230 mg/m3 STEL	400 ppm STEL; 1000 mg/m3 STEL	Not established				
(67-63-0)	TWAs	200 ppm TWA	400 ppm TWA [CMP]	400 ppm TWA; 983 mg/m3 TWA	200 ppm TWA; 500 mg/m3 TWA	310 ppm TWA LT; 765 mg/m3 TWA LT				
	Exposure Limits/Guidelines (Con't.)									
	Result	Canada Alberta	Canada British Columbia	Canada Manitoba	Canada New Brunswick	Canada Northwest Territories				
Isopropyl alcohol	STELs	400 ppm STEL; 984 mg/m3 STEL	400 ppm STEL	400 ppm STEL	500 ppm STEL; 1230 mg/m3 STEL	500 ppm STEL; 1228 mg/m3 STEL				
(67-63-0)	TWAs	200 ppm TWA; 492 mg/m3 TWA	200 ppm TWA	200 ppm TWA	400 ppm TWA; 983 mg/m3 TWA	400 ppm TWA; 983 mg/m3 TWA				
		Ex	posure Limits/Gu	idelines (Con't.)						
	Result	Canada Nova Scotia	Canada Nunavut	Canada Ontario	Canada Quebec	Canada Saskatchewan				
Isopropyl alcohol	STELs	400 ppm STEL	500 ppm STEL; 1228 mg/m3 STEL	400 ppm STEL	500 ppm STEV; 1230 mg/m3 STEV	400 ppm STEL				
(67-63-0)	TWAs	200 ppm TWA	400 ppm TWA; 983 mg/m3 TWA	200 ppm TWA	400 ppm TWAEV; 985 mg/m3 TWAEV	200 ppm TWA				
		Ex	posure Limits/Gu	idelines (Con't.)						
	Result	Canada Yukon	Chile	China	Denmark	Egypt				
Isopropyl alcohol	STELs	500 ppm STEL; 1225 mg/m3 STEL	500 ppm STEL LPT; 1230 mg/m3 STEL LPT	700 mg/m3 STEL	Not established	500 ppm STEL; 1230 mg/m3 STEL				
(67-63-0)		400 ppm TWA; 980 mg/m3 TWA	320 ppm TWA LPP; 786 mg/m3 TWA LPP	350 mg/m3 TWA	200 ppm TWA; 490 mg/m3 TWA	Not established				
		Ex	posure Limits/Gu	idelines (Con't.)						
	Result	Finland	France	Germany DFG	Germany TRGS	Hong Kong				
	STELs	250 ppm STEL; 620 mg/m3 STEL	400 ppm STEL [VLCT]; 980 mg/m3 STEL [VLCT]	Not established	Not established	500 ppm STEL; 1230 mg/m3 STEL				
Isopropyl alcohol (67-63-0)	TWAs	200 ppm TWA; 500 mg/m3 TWA	Not established	Not established	200 ppm TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 2); 500 mg/m3 TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 2)	Not established				

	1						
	Ceilings	Not established	Not established	400 ppm Peak; 1000 mg/m3 Peak	Not established	Not established	
	MAKs	Not established	Not established	200 ppm TWA MAK; 500 mg/m3 TWA MAK	Not established	Not established	
Exposure Limits/Guidelines (Con't.)							
	Result	Indonesia	Ireland	Japan	Korea	Mexico	
	Ceilings	Not established	Not established	400 ppm Ceiling; 980 mg/m3 Ceiling	Not established	Not established	
lsopropyl alcohol (67-63-0)	STELs	Not established	400 ppm STEL	Not established	400 ppm STEL; 980 mg/m3 STEL	500 ppm STEL [LMPE-CT]; 1225 mg/m3 STEL [LMPE-CT]	
	TWAs	400 ppm TWA; 983 mg/m3 TWA	200 ppm TWA	Not established	200 ppm TWA; 480 mg/m3 TWA	400 ppm TWA LMPE-PPT; 980 mg/m3 TWA LMPE- PPT	
		Ex	posure Limits/Gu	idelines (Con't.)			
	Result	New Zealand	NIOSH	Norway	OSHA	Philippines	
Isopropyl alcohol			400 ppm TWA; 980 mg/m3 TWA	100 ppm TWA; 245 mg/m3 TWA	400 ppm TWA; 980 mg/m3 TWA	400 ppm TWA; 980 mg/m3 TWA	
(67-63-0)			500 ppm STEL; 1225 mg/m3 STEL	Not established	Not established	Not established	
		Ex	posure Limits/Gu	idelines (Con't.)			
	Result	Poland	Portugal	Russia	Singapore	South Africa	
			400 ppm STEL [VLE-CD	50 mg/m3 STEL (vapor)	500 ppm STEL; 1230 mg/m3 STEL	500 ppm STEL; 1225 mg/m3 STEL	
Isopropyl alcohol (67-63-0)			200 ppm TWA [VLE- MP]	10 mg/m3 TWA (vapor)	400 ppm PEL; 983 mg/m3 PEL	400 ppm TWA; 960 mg/m3 TWA; 980 mg/m3 TWA (regulated under Propane-2-ol)	
		Ex	posure Limits/Gu	idelines (Con't.)			
	Result	Spain	Sweden	Switzerland	Taiwan	Venezuela	
	MAKs	Not established	Not established	200 ppm TWA [MAK]; 500 mg/m3 TWA [MAK]	Not established	Not established	
	STELs	400 ppm STEL [VLA-EC]; 1000 mg/m3 STEL [VLA- EC]	250 ppm STV; 600 mg/m3 STV	400 ppm STEL [KZW]; 1000 mg/m3 STEL [KZW]	Not established	500 ppm STEL [LEB	
Isopropyl alcohol (67-63-0)	TWAs	200 ppm TWA [VLA ED] (it is prohibited the partial or complete commercialization or use of this substance as a phytosanitary o biocide compound); 500 mg/m3 TWA [VLA-ED] (it is prohibited the partial or complete commercialization or use of this substance as a phytosanitary o biocide compound)	r 150 ppm LLV; 350 mg/m3 LLV	Not established	400 ppm TWA; 983 mg/m3 TWA	400 ppm TWA [CAP	

Limit Values wor	0 mg/L urine end of orkweek Acetone ,F,I)		Not established	Not established	Not established
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### **Exposure Control Notations**

Switzerland

•Isopropyl alcohol (67-63-0): Developmental Risk Groups: (Developmental Risk Group C)

Portugal

•Isopropyl alcohol (67-63-0): Carcinogens: (A4 - Not Classifiable as a Human Carcinogen)

Singapore

•Isopropyl alcohol (67-63-0): Odor Threshold - High: (490 mg/m3) | Odor Threshold - Low: (8 mg/m3) | Irritation: (490 mg/m3)

South Africa

•Isopropyl alcohol (67-63-0): Skin: (Skin Notation)

Brazil

•Isopropyl alcohol (67-63-0): Skin: (skin designation)

Ireland

•Isopropyl alcohol (67-63-0): **Skin:** (Potential for cutaneous absorption) **ACGIH** 

•Isopropyl alcohol (67-63-0): Carcinogens: (A4 - Not Classifiable as a Human Carcinogen)

Germany DFG

•Isopropyl alcohol (67-63-0): Pregnancy: (no risk to embryo/fetus if exposure limits adhered to)

### **Exposure Limits Supplemental**

### Switzerland

•Isopropyl alcohol (67-63-0): **Biological Limit Values:** (25 mg/L Medium: urine Time: end of shift Parameter: Acetone; 25 mg/L Medium: whole blood Time: end of shift Parameter: Acetone)

### Argentina

•Isopropyl alcohol (67-63-0): BEIs: (2 mg/g Creatinine urine Acetone)

### ACGIH

•Isopropyl alcohol (67-63-0): **BEIs:** (40 mg/L Medium: urine Time: end of shift at end of workweek Parameter: Acetone (background, nonspecific)) | **TLV Basis - Critical Effects:** (CNS impairment; eye and upper respiratory tract irritation)

### Germany TRGS

•Isopropyl alcohol (67-63-0): **BELs:** (50 mg/L Medium: whole blood Time: end of shift Parameter: Acetone; 50 mg/L Medium: urine Time: end of shift Parameter: Acetone)

# 8.2 Exposure controls

### Engineering

- Measures/Controls
- Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values.

### **Personal Protective Equipment**

Pictograms



Respiratory	<ul> <li>In case of insufficient ventilation, wear suitable respiratory equipment.</li> </ul>
Eye/Face	<ul> <li>Wear protective eyewear (goggles, face shield, or safety glasses).</li> </ul>
Hands	<ul> <li>Wear protective gloves - rubber or neoprene.</li> </ul>
Skin/Body	<ul> <li>Wear protective clothing - apron or other impervious body coverings.</li> </ul>
General Industrial Hygiene Considerations	<ul> <li>Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling.</li> </ul>
Environmental Exposure Controls	No data available

# **Section 9 - Physical and Chemical Properties**

# 9.1 Information on Physical and Chemical Properties

### Material Description

	Physical Form	Liquid	Appearance/Description	Viscous liquid.
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Color	Purple	Odor	Not relevant
Taste	Not relevant	Particulate Type	Not relevant
Particulate Size	Not relevant	Aerosol Type	Not relevant
Odor Threshold	No data available	Physical and Chemical Properties	Not relevant
General Properties			
Boiling Point	100 C(212 F)	Melting Point	No data available
Decomposition Temperature	Not relevant	Heat of Decomposition	Not relevant
рН	No data available	Specific Gravity/Relative Density	Not relevant
Density	8.9 lbs/gal	Bulk Density	Not relevant
Water Solubility	Miscible	Solvent Solubility	Not relevant
Viscosity	Not relevant	Explosive Properties	Not relevant
Oxidizing Properties:	Not relevant		
Volatility			
Vapor Pressure	Not relevant	Vapor Density	Not relevant
Evaporation Rate	Not relevant	VOC (Wt.)	No data available
VOC (Vol.)	50 g/L	Volatiles (Wt.)	55 to 60 %
Volatiles (Vol.)	Not relevant		
Flammability			
Flash Point		UEL	Not relevant
LEL	Not relevant	Autoignition	Not relevant
Self-Accelerating Decomposition Temperature (SADT)	Not relevant	Heat of Combustion (ΔHc)	Not relevant
Burning Time	Not relevant	Flame Duration	Not relevant
Flame Height	Not relevant	Flame Extension	Not relevant
Ignition Distance	Not relevant	Flammability (solid, gas)	Not relevant
Environmental			
Half-Life	No data available	Octanol/Water Partition coefficient	No data available
		<b>Bissesses</b> define <b>Factor</b>	No data available
Coefficient of water/oil distribution	No data available	Bioaccumulation Factor	No data avaliable
	No data available No data available	Bioaccumulation Factor Biochemical Oxygen Demand BOD/BOD5	No data available
distribution		Biochemical Oxygen Demand	

# 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

• UV reactive.

# 10.3 Possibility of hazardous reactions

• Hazardous polymerization will not occur.

# 10.4 Conditions to avoid

• Avoid freezing. Direct sunlight. Excess heat.

# 10.5 Incompatible materials

### • Oxidizers.

# **10.6 Hazardous decomposition products**

• Hazardous decomposition products formed under fire conditions - carbon oxides, nitrogen oxides. No decomposition is expected under normal storage and use conditions.

# Section 11 - Toxicological Information

# **11.1 Information on toxicological effects**

Component Name	CAS	Data			
Ethanol, 2,2',2''- (propylidynetris(methyleneoxy))tri-, triacrylate (5% TO 6%)	28961-43-5	Acute Toxicity: skn-rbt LD50:>13 gm/kg; Irritation: eye-rbt 100 mg MOD; skn-rbt 500 mg MOD			
Isopropyl alcohol (< 5%)	67-63-0	Acute Toxicity: orl-rat LD50:5000 mg/kg; ihl-rat LC50:16000 ppm/8H; sl LD50:12800 mg/kg; Irritation: eye-rbt 100 mg/24H MOD	kn-rbt		
Benzophenone (< 2%)	119-61-9	Acute Toxicity: orl-rat LD50:>10 gm/kg; Skin-Rabbit LD50 • 3535 mg/kg	J		
1-Butanone, 2-(dimethylamino)-1-(4- (4-morpholinyl)phenyl)-2- (phenylmethyl) (< 1%)	119313-12-1	Acute Toxicity: Ingestion/Oral-Rat LD50 • >2000 mg/kg; Skin-Rat LD50 >=2000 mg/kg	•		
GHS Properties	Classification				
Acute toxicity	EU/CLP• OSHA HCS 20 <sup>7</sup> UN GHS•	12•			
Aspiration Hazard	EU/CLP• OSHA HCS 20 <sup>7</sup> UN GHS•	12•			
Carcinogenicity	EU/CLP• OSHA HCS 2012• UN GHS•				
Germ Cell Mutagenicity	EU/CLP• OSHA HCS 2012• UN GHS•				
Skin corrosion/Irritation	EU/CLP•Skin Ir OSHA HCS 20′ UN GHS•Skin I	12•Skin Irritation 2			
Skin sensitization	EU/CLP•Skin S OSHA HCS 20 UN GHS•Skin S	12•Skin Sensitizer 1			
STOT-RE	EU/CLP• OSHA HCS 207 UN GHS•	12•			
STOT-SE	EU/CLP• OSHA HCS 207 UN GHS•	12•			
Toxicity for Reproduction	EU/CLP• OSHA HCS 2012• UN GHS•				
Respiratory sensitization	EU/CLP• OSHA HCS 207 UN GHS•	12•			
Serious eye damage/Irritation	EU/CLP•Eye In OSHA HCS 20 UN GHS•Eye In	12•Eye Irritation 2			

### **Potential Health Effects**

Inhalation	
Acute (Immediate) • May cause irritation.	
<b>Chronic (Delayed)</b> • Repeated and prolonged exposure may cause irritation.	
Skin	
Acute (Immediate) • May cause irritation. May cause an allergic skin reaction.	
<b>Chronic (Delayed)</b> • Repeated and prolonged exposure may cause irritation. Repeated and prolonge exposure may cause sensitization.	d
Eye	
Acute (Immediate) • May cause irritation.	
<b>Chronic (Delayed)</b> • Repeated and prolonged exposure may cause irritation.	
Ingestion	
Acute (Immediate)	
Chronic (Delayed) • No data available	

# **Section 12 - Ecological Information**

# 12.1 Toxicity

Component	CAS	Data	Comments
Benzophenone (< 2%)	119-61-9	Crustacea: 24 Hour(s) EC50 Crustacea .28 mg/L ; Fish: 96 Hour(s) LC50 Fish 14.2 mg/L	
1-Butanone, 2-(dimethylamino)-1-(4-(4-morpholinyl)phenyl)-2-(phenylmethyl) (< 1%)	119313-12-1	Crustacea: 24 Hour(s) EC50 Water Flea .8 mg/L ; Fish: 96 Hour(s) LC50 Fish .46 mg/L	

# 12.2 Persistence and degradability

# 12.3 Bioaccumulative potential

# 12.4 Mobility in Soil

# 12.5 Results of PBT and vPvB assessment

12.6 Other adverse effects

# Section 13 - Disposal Considerations

# 13.1 Waste treatment methods

Product waste	<ul> <li>Dispose of content in accordance with local, regional, national, and/or international regulations.</li> </ul>
Packaging waste	<ul> <li>Dispose of container in accordance with local, regional, national, and/or international regulations.</li> </ul>
42.0 Other Informatio	

### 13.2 Other Information

• Avoid release to the environment. Dispose of wastes in an approved waste disposal facility.

- No data available
- No data available
- No data available
- No data available

# **Section 14 - Transport Information**

	14.1 UN number	14.2 UN proper shipping name	14.3 Transport hazard class(es)	14.4 Packing group	14.5 Environmental hazards	
DOT	NDA	NDA	NDA	NDA	NDA	
TDG	NDA	NDA	NDA	NDA	NDA	
IMO/IMDG	NDA	NDA	NDA	NDA	NDA	
ADN	NDA	NDA	NDA	NDA	NDA	
ADR/RID	NDA	NDA	NDA	NDA	NDA	
IATA/ICAO	NDA	NDA	NDA	NDA	NDA	

14.6 Special precautions for user

None specified.Not relevant.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code 14.8 Other information

**DOT** • DOT (US): Not dangerous goods.

**IMO/IMDG** • IMDG: Not dangerous goods.

IATA/ICAO • IATA: Not dangerous goods.

### Section 15 - Regulatory Information

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

SARA Hazard Classifications • Acute

State Right To Know								
Component	CAS	MA	NJ	PA				
Ethanol, 2,2',2"- (propylidynetris(methyleneoxy))tri- , triacrylate	28961-43- 5	No	No	No				
Acrylate oligomers	NDA	No	No	No				
Isopropyl alcohol	67-63-0	Yes	Yes	Yes				
1-hydroxycyclohexyl phenyl ketone	947-19-3	No	No	No				
Benzophenone	119-61-9	No	No	No				
1-Butanone, 2-(dimethylamino)-1- (4-(4-morpholinyl)phenyl)-2- (phenylmethyl)	119313- 12-1	No	No	No				

Inventory							
Component	CAS	Australia AICS	Canada DSL	China	EU EINECS	EU ELNICS	
Ethanol, 2,2',2"- (propylidynetris(methyleneoxy))tri- , triacrylate	28961-43- 5	Yes	Yes	Yes	No	No	
Acrylate oligomers	NDA	No	No	No	No	No	
Isopropyl alcohol	67-63-0	Yes	Yes	Yes	Yes	No	
1-hydroxycyclohexyl phenyl ketone	947-19-3	Yes	Yes	Yes	Yes	No	
Benzophenone	119-61-9	Yes	Yes	Yes	Yes	No	
1-Butanone, 2-(dimethylamino)-1- (4-(4-morpholinyl)phenyl)-2- (phenylmethyl)	119313- 12-1	Yes	Yes	Yes	No	Yes	
Inventory (Con't.)							
Component	CAS	Japan ENCS	Korea KECL	New Zealand	Philippines	Switzerland	

							PICCS	SWISS
Ethanol, 2,2',2"- (propylidynetris(methyleneoxy))tri- , triacrylate	28961-43- 5	No	Yes		Yes		Yes	No
Acrylate oligomers	NDA	No No I		No		No	No	
Isopropyl alcohol	67-63-0	Yes	Yes		Yes		Yes	No
1-hydroxycyclohexyl phenyl ketone	947-19-3	Yes Yes		Yes		Yes	No	
Benzophenone	119-61-9	Yes	Yes		Yes		Yes	No
1-Butanone, 2-(dimethylamino)-1- (4-(4-morpholinyl)phenyl)-2- (phenylmethyl)	119313- 12-1	Yes	Yes		Yes		Yes	Yes
		Inve	ntory	/ (Con't.)				
Comp	onent			0	CAS TSCA		A	
Ethanol, 2,2',2"-(propylidynetris(me	ethyleneoxy)	)tri-, triacrylate		28961-43-5	28961-43-5 Yes		Yes	
Acrylate oligomers				NDA No		No		
Isopropyl alcohol				67-63-0 Yes		Yes	Yes	
1-hydroxycyclohexyl phenyl ketone				947-19-3 Ye		Yes	Yes	
Benzophenone				119-61-9	9 Yes			
1-Butanone, 2-(dimethylamino)-1-(4-(4-morpholinyl)phenyl)-2- (phenylmethyl)				119313-12	313-12-1 Yes			

# Australia

Labor
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Australia - High Volume Industrial Chemicals List			
Isopropyl alcohol	67-63-0	< 5%	
•Ethanol, 2,2',2"-(propylidynetris(methyleneoxy))tri-, triacrylate	28961-43-5		Not Listed
•1-hydroxycyclohexyl phenyl ketone	947-19-3	< 2%	Not Listed
•Benzophenone	119-61-9	< 2%	Not Listed
•1-Butanone, 2-(dimethylamino)-1-(4-(4-morpholinyl)phenyl)-2-(phenylmethyl) Australia - List of Designated Hazardous Substances - Classification	119313-12-1	< 1%	Not Listed
<ul> <li>Isopropyl alcohol</li> </ul>	67-63-0	< 5%	F, Xi R11, R36, R67
<ul> <li>Ethanol, 2,2',2"-(propylidynetris(methyleneoxy))tri-, triacrylate</li> </ul>	28961-43-5	5% TO 6%	Not Listed
<ul> <li>1-hydroxycyclohexyl phenyl ketone</li> </ul>	947-19-3	< 2%	Not Listed
•Benzophenone	119-61-9	< 2%	Not Listed
<ul> <li>Butanone, 2-(dimethylamino)-1-(4-(4-morpholinyl)phenyl)-2-(phenylmethyl)</li> </ul>	119313-12-1	< 1%	N R50, R53
Environment			
Australia - Priority Existing Chemical Program			
Isopropyl alcohol	67-63-0	< 5%	Candidate chemical
<ul> <li>Ethanol, 2,2',2"-(propylidynetris(methyleneoxy))tri-, triacrylate</li> </ul>	28961-43-5	5% TO 6%	Not Listed
<ul> <li>1-hydroxycyclohexyl phenyl ketone</li> </ul>	947-19-3	< 2%	Not Listed
•Benzophenone	119-61-9	< 2%	Not Listed
•1-Butanone, 2-(dimethylamino)-1-(4-(4-morpholinyl)phenyl)-2-(phenylmethyl)	119313-12-1	< 1%	Not Listed
Canada			
Labor			
Canada - WHMIS - Classifications of Substances			
<ul> <li>Isopropyl alcohol</li> </ul>	67-63-0	< 5%	B2, D2B (including 70%)
<ul> <li>Ethanol, 2,2',2"-(propylidynetris(methyleneoxy))tri-, triacrylate</li> </ul>	28961-43-5	5% TO 6%	Not Listed
<ul> <li>1-hydroxycyclohexyl phenyl ketone</li> </ul>	947-19-3	< 2%	Not Listed
•Benzophenone	119-61-9	< 2%	Not Listed
•1-Butanone, 2-(dimethylamino)-1-(4-(4-morpholinyl)phenyl)-2-(phenylmethyl) Canada - WHMIS - Ingredient Disclosure List	119313-12-1	< 1%	Not Listed
Isopropyl alcohol	67-63-0	< 5%	1 %
<ul> <li>Ethanol, 2,2',2"-(propylidynetris(methyleneoxy))tri-, triacrylate</li> </ul>	28961-43-5	5% TO 6%	Not Listed
<ul> <li>1-hydroxycyclohexyl phenyl ketone</li> </ul>	947-19-3	< 2%	Not Listed
•Benzophenone	119-61-9	< 2%	Not Listed
•1-Butanone, 2-(dimethylamino)-1-(4-(4-morpholinyl)phenyl)-2-(phenylmethyl)	119313-12-1	< 1%	Not Listed
Canada Alberta			

### Environment

Canada - Alberta - Ambient Air Quality Objectives				
•Isopropyl alcohol	67-63-0	< 5%	3190 ppl hour ave	ov 1 hour average; 7850 µg/m3 1
<ul> <li>Ethanol, 2,2',2"-(propylidynetris(methyleneoxy))tri-, triacrylate</li> <li>1-hydroxycyclohexyl phenyl ketone</li> </ul>	28961-43-5 947-19-3	< 2%	% Not Liste Not Liste	d d
•Benzophenone	119-61-9	< 2%	Not Liste	ed
<ul> <li>•1-Butanone, 2-(dimethylamino)-1-(4-(4-morpholinyl)phenyl)-2- (phenylmethyl)</li> </ul>	119313-12-	1 <1%	Not Liste	d
China				
Other				
China - Dangerous Goods List			=0/	
•Isopropyl alcohol		7-63-0	< 5%	UN1219 PG = II
<ul> <li>Ethanol, 2,2',2"-(propylidynetris(methyleneoxy))tri-, triacrylate</li> <li>1-hydroxycyclohexyl phenyl ketone</li> </ul>		3961-43-5 17-19-3	< 2%	Not Listed Not Listed
•Benzophenone		19-61-9	< 2%	Not Listed
•1-Butanone, 2-(dimethylamino)-1-(4-(4-morpholinyl)phenyl)-2-(phe				Not Listed
Denmark				
Environment				
Denmark - Advisory List for Self-Classification of Dangerous				
•Isopropyl alcohol		7-63-0	< 5%	Not Listed
•Ethanol, 2,2',2"-(propylidynetris(methyleneoxy))tri-, triacrylate		3961-43-5		Not Listed
<ul> <li>1-hydroxycyclohexyl phenyl ketone</li> <li>Benzophenone</li> </ul>		17-19-3 19-61-9	< 2% < 2%	R52/53 Not Listed
•1-Butanone, 2-(dimethylamino)-1-(4-(4-morpholinyl)phenyl)-2-(phe				Not Listed
Europe	,			
Other				
Council of Europe - Flavouring Substances - Category of Flavo	ouring Subst	ances		
•Isopropyl alcohol	-	-63-0	< 5%	Not Listed
<ul> <li>Ethanol, 2,2',2"-(propylidynetris(methyleneoxy))tri-, triacrylate</li> </ul>	28	961-43-5	5% TO 6%	Not Listed
<ul> <li>1-hydroxycyclohexyl phenyl ketone</li> </ul>	94	7-19-3	< 2%	Not Listed
•Benzophenone		9-61-9	< 2%	Category B Flavouring Substance
<ul> <li>•1-Butanone, 2-(dimethylamino)-1-(4-(4-morpholinyl)phenyl)-2-(phe Council of Europe - Flavouring Substances - Proposed Practica</li> </ul>				Not Listed
•Isopropyl alcohol		-63-0	< 5%	Not Listed
•Ethanol, 2,2',2"-(propylidynetris(methyleneoxy))tri-, triacrylate		961-43-5	5% TO 6%	
•1-hydroxycyclohexyl phenyl ketone	94	7-19-3	< 2%	Not Listed
•Benzophenone	11	9-61-9	< 2%	0.5 mg/kg Upper Level
•1-Butanone, 2-(dimethylamino)-1-(4-(4-morpholinyl)phenyl)-2-(phe	nylmethyl) 11	9313-12-1	< 1%	Not Listed
Council of Europe - Flavouring Substances - Proposed Practic				N
•Isopropyl alcohol		-63-0	< 5%	Not Listed
•Ethanol, 2,2',2"-(propylidynetris(methyleneoxy))tri-, triacrylate		961-43-5	5% TO 6%	
<ul> <li>1-hydroxycyclohexyl phenyl ketone</li> <li>Benzophenone</li> </ul>		7-19-3 9-61-9	< 2% < 2%	Not Listed
<ul> <li>Denzophenione</li> <li>1-Butanone, 2-(dimethylamino)-1-(4-(4-morpholinyl)phenyl)-2-(phe</li> </ul>				2 mg/kg Upper Level Not Listed
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Classification	inginieury) i i	0010121	< 170	Not Listed
•Isopropyl alcohol	67	-63-0	< 5%	F; R11 Xi; R36 R67
•Ethanol, 2,2',2"-(propylidynetris(methyleneoxy))tri-, triacrylate	28	961-43-5	5% TO 6%	Not Listed
<ul> <li>1-hydroxycyclohexyl phenyl ketone</li> </ul>	94	7-19-3		Not Listed
•Benzophenone				Not Listed
<ul> <li>•1-Butanone, 2-(dimethylamino)-1-(4-(4-morpholinyl)phenyl)-2-(phe EU - CLP (1272/2008) - Annex VI - Table 3.2 - Labelling</li> </ul>	enylmethyl) 11	9313-12-1	< 1%	N; R50-53
•Isopropyl alcohol	67	-63-0	< 5%	F Xi R:11-36-67 S:(2)-7-16-24/25-
•Ethanol, 2,2',2"-(propylidynetris(methyleneoxy))tri-, triacrylate	28	961-43-5	5% TO 6%	26 Not Listed
•1-hydroxycyclohexyl phenyl ketone			< 2%	Not Listed
•Benzophenone				Not Listed
•1-Butanone, 2-(dimethylamino)-1-(4-(4-morpholinyl)phenyl)-2- (phenylmethyl)	11	9313-12-1	< 1%	N R:50/53 S:60-61
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Safety Phrases				

<ul> <li>Ethanol, 2,2',2"-(propylidynetris(methyleneoxy))tri-, triacrylate</li> </ul>	2896	61-43-5	5% TO 6%	% Not Listed
<ul> <li>1-hydroxycyclohexyl phenyl ketone</li> </ul>	947-	19-3	< 2%	Not Listed
•Benzophenone	119-		< 2%	Not Listed
•1-Butanone, 2-(dimethylamino)-1-(4-(4-morpholinyl)phenyl)-2-(phenyl		313-12-1	< 1%	S:60-61
EU - Endocrine Disrupters (COM (2001)262) - Candidate List of S		2 0		NetListed
•Isopropyl alcohol	67-6		< 5%	Not Listed
•Ethanol, 2,2',2"-(propylidynetris(methyleneoxy))tri-, triacrylate		61-43-5	< 2%	% Not Listed
•1-hydroxycyclohexyl phenyl ketone	947- 119-		< 2%	Not Listed
<ul> <li>Benzophenone</li> <li>1-Butanone, 2-(dimethylamino)-1-(4-(4-morpholinyl)phenyl)-2-(phenyl)</li> </ul>				Group III Chemical Not Listed
EU - Existing Substance Regulation (793/93/EEC) - Evaluation of				
•Isopropyl alcohol	67-6		< 5%	
•Ethanol, 2,2',2"-(propylidynetris(methyleneoxy))tri-, triacrylate		61-43-5		% Not Listed
•1-hydroxycyclohexyl phenyl ketone	947-	19-3	< 2%	Not Listed
•Benzophenone	119-	61-9	< 2%	
•1-Butanone, 2-(dimethylamino)-1-(4-(4-morpholinyl)phenyl)-2-(phenyl	ylmethyl) 1193	313-12-1	< 1%	Not Listed
EU - Flavouring Substances (Decision 1999/217/EC) - Register of	f Flavouring S	Substan	ces	
<ul> <li>Isopropyl alcohol</li> </ul>	67-6		< 5%	Chemical Group 05
<ul> <li>Ethanol, 2,2',2"-(propylidynetris(methyleneoxy))tri-, triacrylate</li> </ul>		61-43-5		% Not Listed
•1-hydroxycyclohexyl phenyl ketone	947-		< 2%	Not Listed
•Benzophenone	119-		< 2%	Chemical Group 21
<ul> <li>•1-Butanone, 2-(dimethylamino)-1-(4-(4-morpholinyl)phenyl)-2-(pheny EU - Inventory of Cosmetic Ingredients Directive (INCI) (76/768/EI</li> </ul>				Not Listed
	EC) - Other In	-	Δ	Antifoaming; Solvent; Viscosity
<ul> <li>Isopropyl alcohol</li> </ul>	67-63-0	<		controlling
<ul> <li>Ethanol, 2,2',2"-(propylidynetris(methyleneoxy))tri-, triacrylate</li> </ul>	28961-4	3-5 5%	6 TO 6% N	Not Listed
<ul> <li>1-hydroxycyclohexyl phenyl ketone</li> </ul>	947-19-3	3 < 2	2% N	Not Listed
•Benzophenone	119-61-9	9 <	2% L	JV absorber
<ul> <li>1-Butanone, 2-(dimethylamino)-1-(4-(4-morpholinyl)phenyl)-2- (phenylmethyl)</li> </ul>	119313-	12-1 <	1% N	Not Listed
EU - Inventory of Cosmetic Ingredients Directive (INCI) (76/768/E •Isopropyl alcohol	EEC) - Perfum 67-6		romatic M < 5%	aterials
•Ethanol, 2,2',2"-(propylidynetris(methyleneoxy))tri-, triacrylate	2896	61-43-5	5% TO 6	% Not Listed
<ul> <li>1-hydroxycyclohexyl phenyl ketone</li> </ul>	947-	19-3	< 2%	Not Listed
•Benzophenone	119-	61-9	< 2%	
<ul> <li>•1-Butanone, 2-(dimethylamino)-1-(4-(4-morpholinyl)phenyl)-2-(pheny EU - No-Longer Polymers List (67/548/EEC)</li> </ul>	ylmethyl) 1193	313-12-1	< 1%	Not Listed
•Isopropyl alcohol	67-63-0	< 5%	Not L	
•Ethanol, 2,2',2"-(propylidynetris(methyleneoxy))tri-, triacrylate	28961-43-5	5% TC	ethox	No. 500-066-5 (>1<6.5 mol (ylated units)
•1-hydroxycyclohexyl phenyl ketone	947-19-3	< 2%	Not L	
•Benzophenone	119-61-9	< 2%	Not L	listed
<ul> <li>•1-Butanone, 2-(dimethylamino)-1-(4-(4-morpholinyl)phenyl)-2- (phenylmethyl)</li> </ul>	119313-12-1	< 1%	Not L	isted
Germany				
Environment Germany - Water Classification (VwVwS) - Annex 2 - Water Haza	rd Classes			
•Isopropyl alcohol	67-63-0	< 5%		mber 135, hazard class 1 - low hazard
			to wat	
•Ethanol, 2,2',2"-(propylidynetris(methyleneoxy))tri-, triacrylate	28961-43-5		6% Not Li	
•1-hydroxycyclohexyl phenyl ketone	947-19-3 119-61-9	< 2%	Not Li	
•Benzophenone •1-Butanone 2-(dimethylamino)-1-(4-(4-morpholinyl)phenyl)-2-		< 2%	Not Lis	รเอน
•1-Butanone, 2-(dimethylamino)-1-(4-(4-morpholinyl)phenyl)-2- (phenylmethyl)	119313-12-1	< 1%	Not Lis	sted

67-63-0

947-19-3

119-61-9

119313-12-1 < 1%

< 5%

< 2%

< 2%

28961-43-5 5% TO 6% Not Listed

Not Listed

to water

waters

waters

Germany - Water Classification (VwVwS) - Annex 3 •Isopropyl alcohol

•Ethanol, 2,2',2"-(propylidynetris(methyleneoxy))tri-, triacrylate

•1-hydroxycyclohexyl phenyl ketone

### •Benzophenone

•1-Butanone, 2-(dimethylamino)-1-(4-(4-morpholinyl)phenyl)-2-(phenylmethyl)

ID Number 2124, not considered hazardous

ID Number 2024, hazard class 2 - hazard to

ID Number 2102, hazard class 2 - hazard to

# Hong Kong

L	abor	

Hong Kong - Dangerous Substances Regulations - Classification			
	n		
<ul> <li>Isopropyl alcohol</li> </ul>	67-63-0	< 5%	Flammable
<ul> <li>Ethanol, 2,2',2"-(propylidynetris(methyleneoxy))tri-, triacrylate</li> </ul>	28961-43-		Not Listed
<ul> <li>1-hydroxycyclohexyl phenyl ketone</li> </ul>	947-19-3	< 2%	Not Listed
•Benzophenone	119-61-9	< 2%	Not Listed
•1-Butanone, 2-(dimethylamino)-1-(4-(4-morpholinyl)phenyl)-2-(pheny Hong Kong - Dangerous Substances Regulations - Particular Ris	sks		Not Listed
<ul> <li>Isopropyl alcohol</li> </ul>	67-63-0	< 5%	R-11
<ul> <li>Ethanol, 2,2',2"-(propylidynetris(methyleneoxy))tri-, triacrylate</li> </ul>	28961-43-		Not Listed
<ul> <li>1-hydroxycyclohexyl phenyl ketone</li> </ul>	947-19-3	< 2%	Not Listed
•Benzophenone	119-61-9	< 2%	Not Listed
•1-Butanone, 2-(dimethylamino)-1-(4-(4-morpholinyl)phenyl)-2-(pheny Hong Kong - Dangerous Substances Regulations - Safety Preca	utions		Not Listed
Isopropyl alcohol	67-63-0	< 5%	S-6/8, S-13
•Ethanol, 2,2',2"-(propylidynetris(methyleneoxy))tri-, triacrylate	28961-43-		Not Listed
•1-hydroxycyclohexyl phenyl ketone	947-19-3	< 2%	Not Listed
•Benzophenone	119-61-9	< 2%	Not Listed
<ul> <li>1-Butanone, 2-(dimethylamino)-1-(4-(4-morpholinyl)phenyl)-2-(phenyl)</li> </ul>	ylmethyl) 119313-12	2-1 <1%	Not Listed
Other			
Hong Kong - Dangerous Goods - Category 5 - Substances Givin	g Off Flammable Va	apour	
Isopropyl alcohol	67-63-0	< 5%	Class 1, Division 2
<ul> <li>Ethanol, 2,2',2"-(propylidynetris(methyleneoxy))tri-, triacrylate</li> </ul>	28961-43-	5 5% TO 6%	Not Listed
<ul> <li>1-hydroxycyclohexyl phenyl ketone</li> </ul>	947-19-3	< 2%	Not Listed
•Benzophenone	119-61-9	< 2%	Not Listed
•1-Butanone, 2-(dimethylamino)-1-(4-(4-morpholinyl)phenyl)-2-(phenyl	ylmethyl) 119313-12	2-1 < 1%	Not Listed
ndia			
Environment			
India - Hazardous Chemical Rules - List of Hazardous and Toxic	Chamicals		
Isopropyl alcohol	67-63-0	< 5%	
•Ethanol, 2,2',2''-(propylidynetris(methyleneoxy))tri-, triacrylate	28961-43-		Not Listed
•1-hydroxycyclohexyl phenyl ketone	947-19-3	< 2%	Not Listed
Benzophenone	119-61-9	< 2%	Not Listed
<ul> <li>Denzophenone</li> <li>1-Butanone, 2-(dimethylamino)-1-(4-(4-morpholinyl)phenyl)-2-(phenyl)</li> </ul>			Not Listed
	yiiiieuiiyi) 119313-12	-1 < 1/0	NOT LISTED
Japan			
Japan ₋abor			
Japan _abor Japan - ISHL Dangerous Substances			
Japan _abor Japan - ISHL Dangerous Substances •Isopropyl alcohol	67-63-0	< 5%	Flammable substance
Japan -abor Japan - ISHL Dangerous Substances •Isopropyl alcohol •Ethanol, 2,2',2''-(propylidynetris(methyleneoxy))tri-, triacrylate	28961-43-5	5 5% TO 6%	Not Listed
Japan _abor Japan - ISHL Dangerous Substances •Isopropyl alcohol	28961-43-5		Not Listed
Japan -abor Japan - ISHL Dangerous Substances •Isopropyl alcohol •Ethanol, 2,2',2''-(propylidynetris(methyleneoxy))tri-, triacrylate •1-hydroxycyclohexyl phenyl ketone •Benzophenone	28961-43-5 947-19-3 119-61-9	5 5% TO 6% < 2% < 2%	Not Listed Not Listed Not Listed
Japan Labor Japan - ISHL Dangerous Substances •Isopropyl alcohol •Ethanol, 2,2',2''-(propylidynetris(methyleneoxy))tri-, triacrylate •1-hydroxycyclohexyl phenyl ketone •Benzophenone •1-Butanone, 2-(dimethylamino)-1-(4-(4-morpholinyl)phenyl)-2-(pheny	28961-43-5 947-19-3 119-61-9 /lmethyl) 119313-12	5 5% TO 6% < 2% < 2%	Not Listed Not Listed
Japan _abor Japan - ISHL Dangerous Substances •Isopropyl alcohol •Ethanol, 2,2',2''-(propylidynetris(methyleneoxy))tri-, triacrylate •1-hydroxycyclohexyl phenyl ketone •Benzophenone	28961-43-5 947-19-3 119-61-9 /lmethyl) 119313-12	5 5% TO 6% < 2% < 2% -1 < 1%	Not Listed Not Listed Not Listed Not Listed
Japan Japan - ISHL Dangerous Substances •Isopropyl alcohol •Ethanol, 2,2',2''-(propylidynetris(methyleneoxy))tri-, triacrylate •1-hydroxycyclohexyl phenyl ketone •Benzophenone •1-Butanone, 2-(dimethylamino)-1-(4-(4-morpholinyl)phenyl)-2-(pheny	28961-43-5 947-19-3 119-61-9 /lmethyl) 119313-12	5 5% TO 6% < 2% < 2% -1 < 1%	Not Listed Not Listed Not Listed Not Listed when produced and handled
Japan _abor Japan - ISHL Dangerous Substances •Isopropyl alcohol •Ethanol, 2,2',2''-(propylidynetris(methyleneoxy))tri-, triacrylate •1-hydroxycyclohexyl phenyl ketone •Benzophenone •1-Butanone, 2-(dimethylamino)-1-(4-(4-morpholinyl)phenyl)-2-(pheny Japan - ISHL Harmful Substances Requiring Workers to Subject a •Isopropyl alcohol	28961-43-5 947-19-3 119-61-9 /Imethyl) 119313-12 to Medical Exams 67-63-0	5 5% TO 6% < 2% < 2% -1 < 1% < 5%	Not Listed Not Listed Not Listed Not Listed when produced and handled ndoors)
Japan Japan - ISHL Dangerous Substances •Isopropyl alcohol •Ethanol, 2,2',2''-(propylidynetris(methyleneoxy))tri-, triacrylate •1-hydroxycyclohexyl phenyl ketone •Benzophenone •1-Butanone, 2-(dimethylamino)-1-(4-(4-morpholinyl)phenyl)-2-(pheny Japan - ISHL Harmful Substances Requiring Workers to Subject for •Isopropyl alcohol •Ethanol, 2,2',2''-(propylidynetris(methyleneoxy))tri-, triacrylate	28961-43-5 947-19-3 119-61-9 vlmethyl) 119313-12 to Medical Exams 67-63-0 28961-43-5	5 5% TO 6% < 2% < 2% -1 < 1% < 5% i 5% TO 6% I	Not Listed Not Listed Not Listed Not Listed (when produced and handled ndoors) Not Listed
Japan _abor Japan - ISHL Dangerous Substances •Isopropyl alcohol •Ethanol, 2,2',2''-(propylidynetris(methyleneoxy))tri-, triacrylate •1-hydroxycyclohexyl phenyl ketone •Benzophenone •1-Butanone, 2-(dimethylamino)-1-(4-(4-morpholinyl)phenyl)-2-(phenyl Japan - ISHL Harmful Substances Requiring Workers to Subject for •Isopropyl alcohol •Ethanol, 2,2',2''-(propylidynetris(methyleneoxy))tri-, triacrylate •1-hydroxycyclohexyl phenyl ketone	28961-43-5 947-19-3 119-61-9 vlmethyl) 119313-12 to Medical Exams 67-63-0 28961-43-5 947-19-3	5 5% TO 6% < 2% < 2% -1 < 1% < 5% TO 6% I < 2%	Not Listed Not Listed Not Listed Not Listed (when produced and handled indoors) Not Listed Not Listed
Japan _abor Japan - ISHL Dangerous Substances •Isopropyl alcohol •Ethanol, 2,2',2''-(propylidynetris(methyleneoxy))tri-, triacrylate •1-hydroxycyclohexyl phenyl ketone •Benzophenone •1-Butanone, 2-(dimethylamino)-1-(4-(4-morpholinyl)phenyl)-2-(phenyl Japan - ISHL Harmful Substances Requiring Workers to Subject for •Isopropyl alcohol •Ethanol, 2,2',2''-(propylidynetris(methyleneoxy))tri-, triacrylate •1-hydroxycyclohexyl phenyl ketone •Benzophenone	28961-43-5 947-19-3 119-61-9 vlmethyl) 119313-12 to Medical Exams 67-63-0 28961-43-5	5 5% TO 6% < 2% < 2% -1 < 1% < 5% TO 6% I < 2%	Not Listed Not Listed Not Listed Not Listed (when produced and handled ndoors) Not Listed
Japan Japan - ISHL Dangerous Substances •Isopropyl alcohol •Ethanol, 2,2',2''-(propylidynetris(methyleneoxy))tri-, triacrylate •1-hydroxycyclohexyl phenyl ketone •Benzophenone •1-Butanone, 2-(dimethylamino)-1-(4-(4-morpholinyl)phenyl)-2-(phenyl Japan - ISHL Harmful Substances Requiring Workers to Subject for •Isopropyl alcohol •Ethanol, 2,2',2''-(propylidynetris(methyleneoxy))tri-, triacrylate •1-hydroxycyclohexyl phenyl ketone •Benzophenone •1-Butanone, 2-(dimethylamino)-1-(4-(4-morpholinyl)phenyl)-2-	28961-43-5 947-19-3 119-61-9 vlmethyl) 119313-12 to Medical Exams 67-63-0 28961-43-5 947-19-3	5 5% TO 6% < 2% < 2% -1 < 1% < 5% TO 6% I < 2% I < 2% I	Not Listed Not Listed Not Listed Not Listed (when produced and handled ndoors) Not Listed Not Listed
Japan Labor Japan - ISHL Dangerous Substances •Isopropyl alcohol •Ethanol, 2,2',2''-(propylidynetris(methyleneoxy))tri-, triacrylate •1-hydroxycyclohexyl phenyl ketone •Benzophenone •1-Butanone, 2-(dimethylamino)-1-(4-(4-morpholinyl)phenyl)-2-(pheny Japan - ISHL Harmful Substances Requiring Workers to Subject f •Isopropyl alcohol •Ethanol, 2,2',2''-(propylidynetris(methyleneoxy))tri-, triacrylate •1-hydroxycyclohexyl phenyl ketone •Benzophenone •1-Butanone, 2-(dimethylamino)-1-(4-(4-morpholinyl)phenyl)-2- (phenylmethyl)	28961-43-5 947-19-3 119-61-9 vlmethyl) 119313-12 to Medical Exams 67-63-0 28961-43-5 947-19-3 119-61-9 119313-12-1	5 5% TO 6% < 2% < 2% -1 < 1% < 5% TO 6% I < 2% I < 2% I	Not Listed Not Listed Not Listed Not Listed when produced and handled ndoors) Not Listed Not Listed Not Listed
Japan Japan - ISHL Dangerous Substances •Isopropyl alcohol •Ethanol, 2,2',2''-(propylidynetris(methyleneoxy))tri-, triacrylate •1-hydroxycyclohexyl phenyl ketone •Benzophenone •1-Butanone, 2-(dimethylamino)-1-(4-(4-morpholinyl)phenyl)-2-(phenyl Japan - ISHL Harmful Substances Requiring Workers to Subject for •Isopropyl alcohol •Ethanol, 2,2',2''-(propylidynetris(methyleneoxy))tri-, triacrylate •1-hydroxycyclohexyl phenyl ketone •Benzophenone •1-Butanone, 2-(dimethylamino)-1-(4-(4-morpholinyl)phenyl)-2-	28961-43-5 947-19-3 119-61-9 vlmethyl) 119313-12 to Medical Exams 67-63-0 28961-43-5 947-19-3 119-61-9 119313-12-1	5 5% TO 6% < 2% < 2% -1 < 1% < 5% TO 6% I < 2% I < 2% I	Not Listed Not Listed Not Listed Not Listed when produced and handled ndoors) Not Listed Not Listed Not Listed
Japan Japan - ISHL Dangerous Substances •Isopropyl alcohol •Ethanol, 2,2',2''-(propylidynetris(methyleneoxy))tri-, triacrylate •1-hydroxycyclohexyl phenyl ketone •Benzophenone •1-Butanone, 2-(dimethylamino)-1-(4-(4-morpholinyl)phenyl)-2-(phenyl Japan - ISHL Harmful Substances Requiring Workers to Subject for •Isopropyl alcohol •Ethanol, 2,2',2''-(propylidynetris(methyleneoxy))tri-, triacrylate •1-hydroxycyclohexyl phenyl ketone •Benzophenone •1-Butanone, 2-(dimethylamino)-1-(4-(4-morpholinyl)phenyl)-2- (phenylmethyl) Japan - ISHL Harmful Substances Whose Names Are to be Indica •Isopropyl alcohol	28961-43-5 947-19-3 119-61-9 vlmethyl) 119313-12 to Medical Exams 67-63-0 28961-43-5 947-19-3 119-61-9 119313-12-1 ated on the Label	5 5% TO 6% < 2% < 2% -1 < 1% < 5% TO 6% I < 2% I < 2% I < 2% I < 2% I < 5%	Not Listed Not Listed Not Listed Not Listed (when produced and handled ndoors) Not Listed Not Listed Not Listed Not Listed >1 % weight
Japan Japan - ISHL Dangerous Substances •Isopropyl alcohol •Ethanol, 2,2',2''-(propylidynetris(methyleneoxy))tri-, triacrylate •1-hydroxycyclohexyl phenyl ketone •Benzophenone •1-Butanone, 2-(dimethylamino)-1-(4-(4-morpholinyl)phenyl)-2-(phenyl Japan - ISHL Harmful Substances Requiring Workers to Subject for •Isopropyl alcohol •Ethanol, 2,2',2''-(propylidynetris(methyleneoxy))tri-, triacrylate •1-hydroxycyclohexyl phenyl ketone •Benzophenone •1-Butanone, 2-(dimethylamino)-1-(4-(4-morpholinyl)phenyl)-2- (phenylmethyl) Japan - ISHL Harmful Substances Whose Names Are to be Indica •Isopropyl alcohol •Ethanol, 2,2',2''-(propylidynetris(methyleneoxy))tri-, triacrylate	28961-43-5 947-19-3 119-61-9 vlmethyl) 119313-12 to Medical Exams 67-63-0 28961-43-5 947-19-3 119-61-9 119313-12-1 ated on the Label 67-63-0	5 5% TO 6% < 2% < 2% -1 < 1% < 5% TO 6% I < 2% I < 2% I < 2% I < 2% I < 2% I < 5% TO 6%	Not Listed Not Listed Not Listed Not Listed (when produced and handled ndoors) Not Listed Not Listed Not Listed >1 % weight Not Listed
Japan Japan - ISHL Dangerous Substances •Isopropyl alcohol •Ethanol, 2,2',2''-(propylidynetris(methyleneoxy))tri-, triacrylate •1-hydroxycyclohexyl phenyl ketone •Benzophenone •1-Butanone, 2-(dimethylamino)-1-(4-(4-morpholinyl)phenyl)-2-(phenyl Japan - ISHL Harmful Substances Requiring Workers to Subject for •Isopropyl alcohol •Ethanol, 2,2',2''-(propylidynetris(methyleneoxy))tri-, triacrylate •1-hydroxycyclohexyl phenyl ketone •Benzophenone •1-Butanone, 2-(dimethylamino)-1-(4-(4-morpholinyl)phenyl)-2- (phenylmethyl) Japan - ISHL Harmful Substances Whose Names Are to be Indicated •Isopropyl alcohol •Ethanol, 2,2',2''-(propylidynetris(methyleneoxy))tri-, triacrylate •Isopropyl alcohol •Ethanol, 2,2',2''-(propylidynetris(methyleneoxy))tri-, triacrylate •I-hydroxycyclohexyl phenyl ketone	28961-43-5 947-19-3 119-61-9 (Imethyl) 119313-12 to Medical Exams 67-63-0 28961-43-5 947-19-3 119-61-9 119313-12-1 ated on the Label 67-63-0 28961-43-5 947-19-3	5 5% TO 6% < 2% < 2% -1 < 1% < 5% TO 6% I < 2% I < 2% I < 2% I < 2% I < 2% I < 5% TO 6% < 2%	Not Listed Not Listed Not Listed Vot Listed (when produced and handled ndoors) Not Listed Not Listed Not Listed Not Listed Not Listed Not Listed Not Listed Not Listed
Japan Japan - ISHL Dangerous Substances •Isopropyl alcohol •Ethanol, 2,2',2''-(propylidynetris(methyleneoxy))tri-, triacrylate •1-hydroxycyclohexyl phenyl ketone •Benzophenone •1-Butanone, 2-(dimethylamino)-1-(4-(4-morpholinyl)phenyl)-2-(phenyl Japan - ISHL Harmful Substances Requiring Workers to Subject for •Isopropyl alcohol •Ethanol, 2,2',2''-(propylidynetris(methyleneoxy))tri-, triacrylate •1-hydroxycyclohexyl phenyl ketone •Benzophenone •1-Butanone, 2-(dimethylamino)-1-(4-(4-morpholinyl)phenyl)-2- (phenylmethyl) Japan - ISHL Harmful Substances Whose Names Are to be Indicated •Isopropyl alcohol •Ethanol, 2,2',2''-(propylidynetris(methyleneoxy))tri-, triacrylate •I-hydroxycyclohexyl phenyl ketone •Benzophenone	28961-43-5 947-19-3 119-61-9 /Imethyl) 119313-12 to Medical Exams 67-63-0 28961-43-5 947-19-3 119-61-9 119313-12-1 ated on the Label 67-63-0 28961-43-5 947-19-3 119-61-9	5 5% TO 6% < 2% < 2% -1 < 1% < 5% TO 6% 1 < 2% 1 < 2% 1 < 2% 1 < 2% 1 < 1% 1 < 5% TO 6% < 2% < 5% TO 6% < 2% < 2%	Not Listed Not Listed Not Listed When produced and handled ndoors) Not Listed Not Listed
Japan Japan - ISHL Dangerous Substances •Isopropyl alcohol •Ethanol, 2,2',2''-(propylidynetris(methyleneoxy))tri-, triacrylate •1-hydroxycyclohexyl phenyl ketone •Benzophenone •1-Butanone, 2-(dimethylamino)-1-(4-(4-morpholinyl)phenyl)-2-(phenyl Japan - ISHL Harmful Substances Requiring Workers to Subject for •Isopropyl alcohol •Ethanol, 2,2',2''-(propylidynetris(methyleneoxy))tri-, triacrylate •1-hydroxycyclohexyl phenyl ketone •Benzophenone •1-Butanone, 2-(dimethylamino)-1-(4-(4-morpholinyl)phenyl)-2- (phenylmethyl) Japan - ISHL Harmful Substances Whose Names Are to be Indicated •Isopropyl alcohol •Ethanol, 2,2',2''-(propylidynetris(methyleneoxy))tri-, triacrylate •Isopropyl alcohol •Ethanol, 2,2',2''-(propylidynetris(methyleneoxy))tri-, triacrylate •I-hydroxycyclohexyl phenyl ketone	28961-43-5 947-19-3 119-61-9 /Imethyl) 119313-12 to Medical Exams 67-63-0 28961-43-5 947-19-3 119-61-9 119313-12-1 ated on the Label 67-63-0 28961-43-5 947-19-3 119-61-9	5 5% TO 6% < 2% < 2% -1 < 1% < 5% TO 6% 1 < 2% 1 < 2% 1 < 2% 1 < 2% 1 < 1% 1 < 5% 5% TO 6% < 2% < 2% -1 < 1%	Not Listed Not Listed Not Listed When produced and handled ndoors) Not Listed Not Listed
Japan Labor Japan - ISHL Dangerous Substances •Isopropyl alcohol •Ethanol, 2,2',2''-(propylidynetris(methyleneoxy))tri-, triacrylate •1-hydroxycyclohexyl phenyl ketone •Benzophenone •1-Butanone, 2-(dimethylamino)-1-(4-(4-morpholinyl)phenyl)-2-(pheny Japan - ISHL Harmful Substances Requiring Workers to Subject f •Isopropyl alcohol •Ethanol, 2,2',2''-(propylidynetris(methyleneoxy))tri-, triacrylate •1-hydroxycyclohexyl phenyl ketone •Benzophenone •1-Butanone, 2-(dimethylamino)-1-(4-(4-morpholinyl)phenyl)-2- (phenylmethyl) Japan - ISHL Harmful Substances Whose Names Are to be Indica •Isopropyl alcohol •Ethanol, 2,2',2''-(propylidynetris(methyleneoxy))tri-, triacrylate •1-hydroxycyclohexyl phenyl ketone •Benzophenone •1-Butanone, 2-(dimethylamino)-1-(4-(4-morpholinyl)phenyl)-2-(phenyl Japan - ISHL Notifiable Substances	28961-43-5 947-19-3 119-61-9 /Imethyl) 119313-12 to Medical Exams 67-63-0 28961-43-5 947-19-3 119-61-9 119313-12-1 ated on the Label 67-63-0 28961-43-5 947-19-3 119-61-9	5 5% TO 6% < 2% < 2% -1 < 1% < 5% TO 6% 1 < 2% 1 < 2% 1 < 2% 1 < 2% 1 < 1% 1 < 5% 5% TO 6% < 2% < 2% -1 < 1%	Not Listed Not Listed Not Listed Not Listed (when produced and handled ndoors) Not Listed Not Listed

	•1-hydroxycyclohexyl phenyl ketone		947-19-3 119-61-9		< 2% < 2%	Not Listed Not Listed	
	•Benzophenone •1-Butanone, 2-(dimethylamino)-1-(4-(4-morpholinyl)phe	nyl)-2-	119313-1	2-1		Not Listed	
	(phenylmethyl) Japan - ISHL Prevention of Organic Solvent Poisonii		1100101	2 1	< 170	NOT LISTOC	•
	•Isopropyl alcohol	ig		67-6	63-0	< 5%	Class 2
	•Ethanol, 2,2',2"-(propylidynetris(methyleneoxy))tri-, triac	rylate		289	61-43-5	5% TO 6%	Not Listed
	•1-hydroxycyclohexyl phenyl ketone				-19-3	< 2%	Not Listed
	•Benzophenone •1-Butanone, 2-(dimethylamino)-1-(4-(4-morpholinyl)phe	nul)_2_(nhor	wimothyi)		-61-9		Not Listed Not Listed
-		nyı)-z-(pnei	iyiinetriyi)	119	515-12-1	< 170	Not Listed
E	n <b>vironment</b> Japan - Pollutant Release Transfer Register (PRTR)	- Class 1 S	ubstance	\$			
	•Isopropyl alcohol	01000 1 0	abotanoe		63-0	< 5%	Not Listed
	•Ethanol, 2,2',2"-(propylidynetris(methyleneoxy))tri-, triad	crylate			961-43-5	5% TO 6%	
	•1-hydroxycyclohexyl phenyl ketone				7-19-3	< 2%	Not Listed
	<ul> <li>Benzophenone</li> <li>1-Butanone, 2-(dimethylamino)-1-(4-(4-morpholinyl)phe</li> </ul>	nyl)-2-(nhei	nylmethyl)		)-61-9 )313-12-1	< 2% < 1%	403 >=1 % Not Listed
	Inventory - Japan - Industrial Safety and Health Law			110	515 12 1	< 170	Not Elsted
	<ul> <li>Isopropyl alcohol</li> </ul>				63-0		2-(8)-319
	•Ethanol, 2,2',2"-(propylidynetris(methyleneoxy))tri-, triad	crylate				5% TO 6%	
	<ul><li>1-hydroxycyclohexyl phenyl ketone</li><li>Benzophenone</li></ul>				7-19-3 9-61-9		7-(4)-697 Not Listed
	•1-Butanone, 2-(dimethylamino)-1-(4-(4-morpholinyl)phe	enyl)-2-(pher	nylmethyl)				8-(7)-927
o	ther	<i>,</i>	5 5,				
-	Japan - Chemical Substance Control Law (CSCL) - E	xamined Ex	kisting Cl	nem	ical Subs	tances	
	•Isopropyl alcohol	67-63-0	< 5%		Decompo	osable	
	•Ethanol, 2,2',2"-(propylidynetris(methyleneoxy))tri-, triacrylate	28961-43-5	5 5% TC	0 6%	Not Liste	d	
	•1-hydroxycyclohexyl phenyl ketone	947-19-3	< 2%		Not Liste	d	
	•Benzophenone	119-61-9	< 2%				see also 4-125); Non-
	•1-Butanone, 2-(dimethylamino)-1-(4-(4-				decompo	sable/Low-0	concentrate (see also 4-125)
	morpholinyl)phenyl)-2-(phenylmethyl)	119313-12	-1 <1%		Not Liste	d	
	Japan - Fire Service Law - Hazardous Materials		07.00.0		50/	Group 4	- Flammable liquids II (listed under
	Isopropyl alcohol		67-63-0		< 5%	Alcohols	
	•Ethanol, 2,2',2"-(propylidynetris(methyleneoxy))tri-, triac	rylate	28961-4			3% Not Liste	
	<ul><li>1-hydroxycyclohexyl phenyl ketone</li><li>Benzophenone</li></ul>		947-19-3 119-61-9		< 2% < 2%	Not Liste Not Liste	
	•1-Butanone, 2-(dimethylamino)-1-(4-(4-morpholinyl)phe	nyl)-2-	119313-			Not Liste	
	(phenylmethyl)						eu
	Japan - ISHL Working Environment Evaluation Stand •Isopropyl alcohol	dards - Adn	ninistrativ		ontrol Lev 63-0	/eis < 5%	200 ppm ACL
	•Ethanol, 2,2',2"-(propylidynetris(methyleneoxy))tri-, triac	rylate				5% TO 6%	
	•1-hydroxycyclohexyl phenyl ketone			947	-19-3	< 2%	Not Listed
	•Benzophenone				-61-9	< 2%	Not Listed
	•1-Butanone, 2-(dimethylamino)-1-(4-(4-morpholinyl)phe	nyl)-2-(pher	iylmethyl)	119	313-12-1	< 1%	Not Listed
K	orea						
L	abor						
	Korea - MOE - Harmful Substances			67	63-0	< 5%	Not Listed
	<ul> <li>Isopropyl alcohol</li> <li>Ethanol, 2,2',2"-(propylidynetris(methyleneoxy))tri-, triad</li> </ul>	crvlate			03-0 961-43-5	< 5% 5% TO 6%	
	•1-hydroxycyclohexyl phenyl ketone	orylato			7-19-3	< 2%	Not Listed
	•Benzophenone			119	9-61-9	< 2%	Not Listed
	•1-Butanone, 2-(dimethylamino)-1-(4-(4-morpholinyl)phe					< 1%	92-23
	<ul> <li>Korea - ISHA - Name, Toxicity and Protective Measure</li> <li>Isopropyl alcohol</li> </ul>	es of New	unemical			< 5%	Not Listed
	•Ethanol, 2,2',2"-(propylidynetris(methyleneoxy))tri-, triad	crylate				5% TO 6%	
	•1-hydroxycyclohexyl phenyl ketone				7-19-3		Not Listed
	•Benzophenone			119	9-61-9	< 2%	Not Listed
			1 1	4.4.0	1040 40 4	. 40/	04.00
-	•1-Butanone, 2-(dimethylamino)-1-(4-(4-morpholinyl)phe	enyl)-2-(pher	nylmethyl)	119	9313-12-1	< 1%	94-20

Mexico

### Other

Mexico - Hazard Classifications			
<ul> <li>Isopropyl alcohol</li> </ul>	67-63-0	< 5%	Hazard Class = 3 PG = II UN1219
<ul> <li>Ethanol, 2,2',2"-(propylidynetris(methyleneoxy))tri-, triacrylate</li> </ul>	28961-43-5	5% TO 6%	Not Listed
<ul> <li>1-hydroxycyclohexyl phenyl ketone</li> </ul>	947-19-3	< 2%	Not Listed
•Benzophenone	119-61-9	< 2%	Not Listed
<ul> <li>•1-Butanone, 2-(dimethylamino)-1-(4-(4-morpholinyl)phenyl)-2-(phenylmethyl)</li> </ul>	119313-12-1	< 1%	Not Listed
Mexico - Regulated Substances			
<ul> <li>Isopropyl alcohol</li> </ul>	67-63-0	< 5%	UN1219
<ul> <li>Ethanol, 2,2',2"-(propylidynetris(methyleneoxy))tri-, triacrylate</li> </ul>	28961-43-5	5% TO 6%	Not Listed
<ul> <li>1-hydroxycyclohexyl phenyl ketone</li> </ul>	947-19-3	< 2%	Not Listed
•Benzophenone	119-61-9	< 2%	Not Listed
<ul> <li>1-Butanone, 2-(dimethylamino)-1-(4-(4-morpholinyl)phenyl)-2-(phenylmethyl)</li> </ul>	119313-12-1	< 1%	Not Listed
Singapore			
Environment			
Singapore - Petroleum and Flammable Materials - Hazard Classes			
<ul> <li>Isopropyl alcohol</li> </ul>	67-63-0	< 5%	Hazard Class = 3
<ul> <li>Ethanol, 2,2',2"-(propylidynetris(methyleneoxy))tri-, triacrylate</li> </ul>	28961-43-5	5% TO 6%	Not Listed
<ul> <li>1-hydroxycyclohexyl phenyl ketone</li> </ul>	947-19-3	< 2%	Not Listed
•Benzophenone	119-61-9	< 2%	Not Listed
•1-Butanone, 2-(dimethylamino)-1-(4-(4-morpholinyl)phenyl)-2-(phenylmethyl)	119313-12-1	< 1%	Not Listed
Singapore - Petroleum and Flammable Materials - Regulated Products <ul> <li>Isopropyl alcohol</li> </ul>	67-63-0	< 5%	SCDIPA1219L2
•Ethanol, 2,2',2''-(propylidynetris(methyleneoxy))tri-, triacrylate	28961-43-5	< 3 % 5% TO 6%	
•1-hydroxycyclohexyl phenyl ketone	947-19-3	< 2%	Not Listed
Benzophenone	119-61-9	< 2%	Not Listed
<ul> <li>Butanone, 2-(dimethylamino)-1-(4-(4-morpholinyl)phenyl)-2-(phenylmethyl)</li> </ul>	119313-12-1	< 170	Not Listed
United States			

### Environment

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

OLO: OPENOLATIA OCONOTIONE EN	inssion reporting		
<ul> <li>Isopropyl alcohol</li> </ul>	67-63-0	< 5%	1.0 % de minimis concentration (only if manufactured by the strong acid process, no supplier notification)
<ul> <li>Ethanol, 2,2',2"-(propylidynetris(methyler triacrylate</li> </ul>	eoxy))tri-, 28961-43-5	5% TO 6	% Not Listed
<ul> <li>1-hydroxycyclohexyl phenyl ketone</li> </ul>	947-19-3	< 2%	Not Listed
•Benzophenone	119-61-9	< 2%	Not Listed
<ul> <li>1-Butanone, 2-(dimethylamino)-1-(4-(4- morpholinyl)phenyl)-2-(phenylmethyl)</li> </ul>	119313-12-1	< 1%	Not Listed

### **United States - Pennsylvania**

### Labor

U.S Pennsylvania - RTK (Right to Know) - Environmental Hazard List			
<ul> <li>Isopropyl alcohol</li> </ul>	67-63-0	< 5%	
<ul> <li>Ethanol, 2,2',2"-(propylidynetris(methyleneoxy))tri-, triacrylate</li> </ul>	28961-43-5	5% TO 6%	Not Listed
<ul> <li>1-hydroxycyclohexyl phenyl ketone</li> </ul>	947-19-3	< 2%	Not Listed
•Benzophenone	119-61-9	< 2%	Not Listed
•1-Butanone, 2-(dimethylamino)-1-(4-(4-morpholinyl)phenyl)-2-(phenylmethyl)	119313-12-1	< 1%	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 contains or may contain a substance(s) known to the State of California to cause cancer and/or reproductive toxicity:

Benzophenone	CAS No. 119-61-9	1-2%
Formaldehyde	CAS No. 50-00-0	<0.0009%
1,4-Dioxane	CAS No. 123-91-1	<0.0001%
Acetaldehyde	CAS No. 75-07-0	<0.002%

# **Section 16 - Other Information**

# Relevant Phrases (code & full text)

Relevant Philases (code	
	H315 - Causes skin irritation.
	H316 - Causes mild skin irritation.
	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.
	<ul> <li>P280 - Wear protective gloves/protective clothing/eye protection/face protection.</li> <li>P302+P352 - IF ON SKIN: Wash with plenty of soap and water.</li> <li>P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes.</li> <li>Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P321 - Specific treatment, see supplemental first aid information.</li> <li>P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.</li> <li>P362 - Take off contaminated clothing and wash before reuse.</li> <li>P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.</li> </ul>
	R11 - Highly flammable.
	R36 - Irritating to eyes. R36/37/38 - Irritating to eyes, respiratory system and skin.
	R43 - May cause sensitization by skin contact.
	R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
	R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
	R67 - Vapors may cause drowsiness and dizziness. S24 - Avoid contact with skin.
	S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
	S37 - Wear suitable gloves. S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
Classification method for mixtures	Calculation method.
Last Revision Date	• 25 July 2012
Preparation Date	• 15 August 2012
Other Information	• Approved by: Troy Bergstedt, Director of Chemical Research, (218) 628-2217 ext.142.
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