

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

1.1 Product identifier

Product Name • UDC-2, UDC HV, UDC HV Z-1, UDC HV Z-2

Product Description • Red, blue, purple or white 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

1.4 Emergency telephone number

Chemtrec • 1-800-424-9300

+1 703-527-3887

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

Hazardous to the aquatic environment Chronic 3 - H412

EUH208

2.2 Label Elements

CLP

WARNING



Hazard statements • H317 - May cause an allergic skin reaction

H412 - Harmful to aquatic life with long lasting effects

EUH208 - Contains sensitizing substance (Poly(oxy(methyl-1,2-ethanediyl)),

 $alpha, alpha', alpha''-1, 2, 3-propanetriyltris (omega-((1-oxo-2-propenyl)oxy)). \ May \ produce$

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



Hazard statements • 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

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

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

2.2 Label elements

OSHA HCS 2012

WARNING



Hazard statements • May cause an allergic skin reaction - H317

Precautionary statements

Prevention • 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

Response • 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

2.2 Label elements

WHMIS 2015

WARNING



Hazard statements • May cause an allergic skin reaction - H317

Precautionary statements

Prevention • 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

Response • 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

NFPA



Section 3 - Composition/Information on Ingredients

3.1 Substances

3.2 Mixtures

Hazardous Components						
Chemical Name	Identifiers	%(weight)	LD50/LC50	Classifications According to Regulation/Directive		
Poly(oxy(methyl-1,2-ethanediyl)), alpha,alpha',alpha'-1,2,3- propanetriyltris(omega-((1-oxo-2-propenyl)oxy)	CAS:52408-84-1	3% TO 4%		CLP / GHS / OSHA / WHMIS: Eye Irrit. 2; 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	CLP / GHS: Aquatic Acute 1; Aquatic Chronic 1; Eye Irrit. 2; Skin Irrit. 2 OSHA / WHMIS: Eye Irrit. 2; Skin Irrit. 2		
1-hydroxycyclohexyl phenyl ketone	CAS:947-19-3 EC Number:213-426-9 EINECS:213-426-9	0.5% TO 1.5%		CLP / GHS / OSHA / WHMIS: Eye Irrit. 2; Skin Irrit. 2		
1-Butanone, 2-(dimethylamino)-1-(4-(4-morpholinyl)phenyl)-2-(phenylmethyl)	CAS:119313-12-1 EC Number:404-360-3	0.3% TO 0.6%	Ingestion/Oral- Rat LD50 • >2000 mg/kg Skin-Rat LD50 • >=2000 mg/kg	CLP / GHS: Aquatic Acute 1; Aquatic Chronic 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-2-dimethylamino-4'-morpholinobutyrophenone); listed 16/01/2020; <0.6%

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

• 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.

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

Notes to

• No data available.

Physician

Antidotes • No data available.

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

Media

LARGE FIRE: Water spray, fog or regular foam.

Unsuitable

• No data available.

Extinguishing Media

Firefighting Procedures • Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Keep unauthorized personnel away. Ventilate closed spaces before entering. LARGE FIRES: Use extinguishing agent suitable for type of surrounding fire.

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.

Products

Hazardous Combustion • Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes.

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. 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

Measures

• Use appropriate Personal Protective Equipment (PPE) Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in suitable container.

6.4 Reference to other sections

 Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Disposal Considerations.

Section 7 - Handling and Storage

7.1 Precautions for safe handling

Handling

• Use good safety and industrial hygiene practices. 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.

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 No data available.

8.2 Exposure controls

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

Personal Protective Equipment

Pictograms



Respiratory

Eye/Face

• In case of insufficient ventilation, wear suitable respiratory equipment. • 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. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after

handling.

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
Color	Red, blue, purple or white	Odor	No data available.
Taste	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	No data available	рН	No data available
Density	1.06 g/mL	Bulk Density	8.82 lbs/gal
Water Solubility	Dispersible	Viscosity	4200-9000 Centipoise (cPs, cP) or mPas @ 25 C (77 F)
Explosive Properties	Not relevant	Oxidizing Properties:	Not relevant
Volatility		•	
Vapor Pressure	No data available	Vapor Density	No data available
Evaporation Rate	No data available	VOC (Wt.)	Not relevant
VOC (Vol.)	Not relevant	Volatiles (Wt.)	60 to 70 %
Flammability		-	-
Flash Point	> 200 F(> 93.3333 C)	UEL	No data available
LEL	No data available	Autoignition	No data available
Flammability (solid, gas)	Not relevant		
Environmental			

Half-Life	No data available	Octanol/Water Partition coefficient	No data available
Coefficient of water/oil distribution	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

• Excess heat. Direct sunlight. Avoid freezing.

10.5 Incompatible materials

• No data available.

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	
1-Butanone, 2-(dimethylamino)-1-(4- (4-morpholinyl)phenyl)-2- (phenylmethyl) (0.3% TO 0.6%)	119313-12-1	Acute Toxicity: Ingestion/Oral-Rat LD50 • >2000 mg/kg; Skin-Rat LD >=2000 mg/kg)50 •
GHS Properties	Classification		·
Skin corrosion/Irritation	EU/CLP• OSHA HCS 2012 UN GHS• Skin Iri Canada WHMIS	ritation 3	
Skin sensitization	EU/CLP•Skin Se OSHA HCS 2012 UN GHS•Skin Se Canada WHMIS		

Medical Conditions Aggravated by

Exposure

No data available.

Potential Health Effects

Inhalation

Acute (Immediate)

· May cause irritation.

Chronic (Delayed)

• Repeated and prolonged exposure may cause irritation.

Skin

Acute (Immediate)

May cause irritation.

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Chronic (Delayed) • Repeated and prolonged exposure may cause irritation.

Eye

Acute (Immediate) • May cause irritation.

Chronic (Delayed) • Repeated and prolonged exposure may cause irritation.

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%)	114-61-4	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

Ecological Fate • No data available.

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.

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

13.2 Other Information

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

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

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

- None known.
- This product is provided only in non-bulk containers.

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 • No data available

Inventory								
Component	CAS	Australia AICS	Canada DSL	Chir	na	EU EINECS	EU ELNICS	
Poly(oxy(methyl-1,2- ethanediyl)), alpha,alpha',alpha"- 1,2,3- propanetriyltris(omega- ((1-oxo-2- propenyl)oxy)	52408-84- 1	Yes	Yes	Yes I		No	No	
Benzophenone	119-61-9	Yes	Yes	Yes		Yes	No	
1-hydroxycyclohexyl phenyl ketone	947-19-3	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 Zea	aland	Philippines PICCS	Switzerland SWISS	
Poly(oxy(methyl-1,2- ethanediyl)), alpha,alpha',alpha"- 1,2,3- propanetriyltris(omega- ((1-oxo-2- propenyl)oxy)	52408-84- 1	Yes	Yes	Yes		Yes	No	
Benzophenone	119-61-9	Yes	Yes	Yes	Yes		No	
1-hydroxycyclohexyl phenyl ketone	947-19-3	Yes	Yes	Yes		Yes	No	
1-Butanone, 2- (dimethylamino)-1-(4- (4-morpholinyl)phenyl)- 2-(phenylmethyl)	119313- 12-1	Yes	Yes	Yes		Yes	Yes	
			Inventory (Con	't.)				
	omponent		CAS			TSCA		
Poly(oxy(methyl-1,2-ethanediyl)), alpha,alpha',alpha''-1,2,3-propanetriyltris(omega-((1-oxo-2-propenyl)oxy)		52408-84-1		Yes	;			
Benzophenone			119-61-9		Yes	'es		
1-hydroxycyclohexyl ph	enyl ketone		947-19-3 Yes		Yes	es es		
1-Butanone, 2-(dimethy morpholinyl)phenyl)-2-(p			119313-12-1 Yes		Yes			

Australia

Labor

Australia - List of Designated Hazardous Substances - Classification

1-hydroxycyclohexyl phenyl ketonePoly(oxy(methyl-1,2-ethanediyl)), alpha,alpha',alpha"-1,2,3-propanetriyltris(omega-((1-oxo-2-

propenyl)oxy)
•Benzophenone

947-19-3 0.5% TO 1.5% Not Listed 52408-84-1 3% TO 4% Not Listed

119-61-9 1% TO 2% Not Listed

Denmark

Environment	onment	Enviro
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Denmark - Advisory List for Self-Classification of Dangerous Substances			
•1-hydroxycyclohexyl phenyl ketone	947-19-3	0.5% TO 1.5%	R52/53
•Poly(oxy(methyl-1,2-ethanediyl)), alpha,alpha',alpha"-1,2,3-propanetriyltris(omega-((1-oxo-2-propenyl)oxy)	52408-84-1	3% TO 4%	Not Listed
•Benzophenone	119-61-9	1% TO 2%	Not Listed
•1-Butanone, 2-(dimethylamino)-1-(4-(4-morpholinyl)phenyl)-2-(phenylmethyl)	119313-12-1	0.3% TO 0.6%	Not Listed

Europe

Other

Other					
EU - Endocrine Disrupters (COM (2001)262) - Candidate List of Subs •1-hydroxycyclohexyl phenyl ketone	tances		947-19-3	0.5% TO 1.5%	S Not Listed
 Poly(oxy(methyl-1,2-ethanediyl)), alpha,alpha',alpha"-1,2,3-propanetriylt 2-propenyl)oxy) 	tris(omega-((1-	-OXO-	52408-84		Not Listed
•Benzophenone			119-61-9	1% TO 2%	Group III Chemical
•1-Butanone, 2-(dimethylamino)-1-(4-(4-morpholinyl)phenyl)-2-(phenylme EU - No-Longer Polymers List (67/548/EEC) •1-hydroxycyclohexyl phenyl ketone	ethyl) 947-19-3	0.5%		2-1 0.3% TO 0.6% Not Listed	Not Listed
•Poly(oxy(methyl-1,2-ethanediyl)), alpha,alpha',alpha"-1,2,3-propanetriyltris(omega-((1-oxo-2-propenyl)oxy)	52408-84-1		ГО 4%	NLP No. 500-114 propoxylated units	`
•Benzophenone	119-61-9	1% -	ΓΟ 2%	Not Listed	
•1-Butanone, 2-(dimethylamino)-1-(4-(4-morpholinyl)phenyl)-2-(phenylmethyl)	119313-12-1	0.3%	6 TO 0.6%	Not Listed	
Cormony					

Germany

Environment

Germany - Water	Classification ((VwVwS) - Annex 3
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•1-hydroxycyclohexyl phenyl ketone	947-19-3	0.5% TO 1.5%	ID Number 2124, not considered hazardous to water
Poly(oxy(methyl-1,2-ethanediyl)), alpha,alpha',alpha"-1,2,3- propanetriyltris(omega-((1-oxo-2-propenyl)oxy)	52408-84-1	3% TO 4%	Not Listed
•Benzophenone	119-61-9	1% TO 2%	ID Number 2024, hazard class 2 - hazard to waters
•1-Butanone, 2-(dimethylamino)-1-(4-(4-morpholinyl)phenyl)-2- (phenylmethyl)	119313-12-1	0.3% TO 0.6%	ID Number 2102, hazard class 2 - hazard to waters

Japan

Environment

Japan - Pollutant Release Transfer Register (PRTR) - Class 1 Substances			
•1-hydroxycyclohexyl phenyl ketone	947-19-3	0.5% TO 1.5%	6 Not Listed
•Poly(oxy(methyl-1,2-ethanediyl)), alpha,alpha',alpha"-1,2,3-propanetriyltris(omega-((1-oxo-2-propenyl)oxy)	52408-84-1	3% TO 4%	Not Listed
•Benzophenone	119-61-9	1% TO 2%	403 >=1 %
•1-Butanone, 2-(dimethylamino)-1-(4-(4-morpholinyl)phenyl)-2-(phenylmethyl)	119313-12-1	1 0.3% TO 0.6%	6 Not Listed
Inventory - Japan - Industrial Safety and Health Law Substances (ISHL)			
•1-hydroxycyclohexyl phenyl ketone	947-19-3	0.5% TO 1.5°	% 7-(4)-697
•Poly(oxy(methyl-1,2-ethanediyl)), alpha,alpha',alpha''-1,2,3-propanetriyltris(omega-((1-oxo-2-propenyl)oxy)	52408-84-1	3% TO 4%	10-2655
•Benzophenone	119-61-9	1% TO 2%	Not Listed
•1-Butanone, 2-(dimethylamino)-1-(4-(4-morpholinyl)phenyl)-2-(phenylmethyl)	119313-12-	1 0.3% TO 0.69	% 8-(7)-927

Other

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

•1-hydroxycyclohexyl phenyl ketone	947-19-3	0.5% TO 1.5%	Not Listed
•Poly(oxy(methyl-1,2-ethanediyl)), alpha,alpha',alpha''-1,2,3-propanetriyltris(omega-((1-oxo-2-propenyl)oxy)	52408-84-1	3% TO 4%	Not Listed

•Benzophenone 119-61-9 1% TO 2% Low-decomposable (see also 4-125); Non-decomposable/Low-concentrate (see also 4-125)

Korea

Labor

•1-hydroxycyclohexyl phenyl ketone	947-19-3	0.5% TO 1.5%	Not Listed
•Poly(oxy(methyl-1,2-ethanediyl)), alpha,alpha',alpha''-1,2,3-propanetriyltris(omega-((1-oxo-2-propenyl)oxy)	52408-84-1	3% TO 4%	Not Listed
•Benzophenone	119-61-9	1% TO 2%	Not Listed
•1-Butanone, 2-(dimethylamino)-1-(4-(4-morpholinyl)phenyl)-2-(phenylmethyl) Korea - ISHA - Name, Toxicity and Protective Measures of New Chemical Substances	119313-12-1	0.3% TO 0.6%	92-23
•1-hydroxycyclohexyl phenyl ketone	947-19-3	0.5% TO 1.5%	Not Listed
•Poly(oxy(methyl-1,2-ethanediyl)), alpha,alpha',alpha''-1,2,3-propanetriyltris(omega-((1-oxo-2-propenyl)oxy)	52408-84-1	3% TO 4%	Not Listed
•Benzophenone	119-61-9	1% TO 2%	Not Listed
•1-Butanone, 2-(dimethylamino)-1-(4-(4-morpholinyl)phenyl)-2-(phenylmethyl)	119313-12-1	0.3% TO 0.6%	94-20

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 No. 119-61-9 1% 1,4-Dioxane CAS No. 123.91-1 < 0.0001%

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

• 20 August 2018

Preparation Date

• 17 February 2020

Other Information

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

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

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