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

1.1 Product identifier
Product Name: UDC ACE
Product Description: Blue liquid
1.2 Relevant identified uses of the substance or mixture and uses advised against
Relevant identified use(s): Water-based screen printing emulsion
1.3 Details of the supplier of the safety data sheet

Manufacturer IKONICS
4832 Grand Ave.
Duluth, MN 55807
United States
www.ikonics.com
sds@ikonics.com
Telephone (General): (218) 628-2217
Telephone (General): (800) 328-4261 - Toll free

1.4 Emergency telephone number
Chemtrec: 1-800-424-9300 - Within USA and Canada
+1 703-527-3887 - Outside USA and Canada (collect calls accepted)

Section 2: Hazards Identification

EU/EEC
According to EU Directive 1272/2008 (CLP)/REACH 1907/2006 [amended by 2020/878]
2.1 Classification of the substance or mixture
CLP

Hazard Class	Category	Code
Skin Irritation	2	H315
Skin Sensitization	1	H317
Eye Irritation	2	H319
Carcinogenicity	1B	H350
Reproductive Toxicity	1B	H360
Specific Target Organ Toxicity – Repeated Exposure (Oral), Liver, Kidney	2	H373
Hazardous to the Aquatic Environment, Chronic	3	H412

2.2 Label Elements
CLP

DANGER

Hazard Statement	Code
Causes skin irritation	H315
May cause an allergic skin reaction	H317
Causes serious eye irritation	H319
May cause cancer	H350
May damage fertility or the unborn child	H360
May cause damage to organs (liver, kidney) through prolonged or repeated exposure (oral)	H373
Harmful to aquatic life with long lasting effects	H412
Contains sensitizing substance (Pentaerythritol Triacrylate; Pentaerythritol Tetraacrylate). May produce an allergic reaction.	EUH208

Precautionary Measures

Category	Code	Statement
Prevention	P201	Obtain special instructions before use.
	P203	Obtain, read and follow all safety instructions before use.
	P261	Avoid breathing dust/fume/gas/mist/vapors/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.
	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.
	P318	If exposed or concerned, get medical advice.
	P319	Get medical help if you feel unwell.
	P362+P364	Take off contaminated clothing and wash it before reuse.
Storage	P405	Store locked up.
Disposal	P501	Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

2.3 Other Hazards

CLP

This mixture does not meet the criteria for persistent, bioaccumulative and toxic or very persistent and very bioaccumulative in accordance with REACH Annex XIII.

Endocrine Disrupting Properties

Human Health: This mixture does not contain components having endocrine disrupting properties in accordance with REACH Article 59(1), Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/603 at a concentration equal to or greater than 0.1% by weight.

Environment: This mixture does not contain components having endocrine disrupting properties in accordance with REACH Article 59(1), Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/603 at a concentration equal to or greater than 0.1% by weight.

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

Hazard Class	Category	Code
Skin Irritation	2	H315
Skin Sensitization	1	H317
Eye Irritation	2	H319
Carcinogenicity	2B	H351
Reproductive Toxicity	1B	H360
Specific Target Organ Toxicity – Repeated Exposure (Oral), Liver, Kidney	2	H373
Hazardous to the Aquatic Environment, Acute	3	H402
Hazardous to the Aquatic Environment, Chronic	3	H412

2.2 Label Elements

UN GHS

DANGER

Hazard Statement	Code
Causes skin irritation	H315
May cause an allergic skin reaction	H317
Causes serious eye irritation	H319
Suspected of causing cancer	H351
May damage fertility or the unborn child	H360
May cause damage to organs (liver, kidney) through prolonged or repeated exposure (oral)	H373
Harmful to aquatic life with long lasting effects	H412

Precautionary Measures

Category	Code	Statement
Prevention	P201	Obtain special instructions before use.
	P203	Obtain, read and follow all safety instructions before use.
	P261	Avoid breathing dust/fume/gas/mist/vapors/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.
	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.
	P318	If exposed or concerned, get medical advice.

	P319	Get medical help if you feel unwell.
	P362+P364	Take off contaminated clothing and wash it before reuse.
Storage	P405	Store locked up.
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

Hazard Class	Category	Code
Skin Irritation	2	H315
Skin Sensitization	1	H317
Eye Irritation	2	H319
Carcinogenicity	2B	H351
Reproductive Toxicity	1B	H360
Specific Target Organ Toxicity – Repeated Exposure (Oral), Liver, Kidney	2	H373

2.2 Label Elements

OSHA HCS 2012

DANGER

Hazard Statement	Code
Causes skin irritation	H315
May cause an allergic skin reaction	H317
Causes serious eye irritation	H319
Suspected of causing cancer	H351
May damage fertility or the unborn child	H360
May cause damage to organs (liver, kidney) through prolonged or repeated exposure (oral)	H373

Precautionary Measures

Category	Code	Statement
Prevention	P201	Obtain special instructions before use.
	P203	Obtain, read and follow all safety instructions before use.
	P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
	P264	Wash thoroughly after handling.
	P272	Contaminated work clothing should not be allowed out of the workplace.
	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.
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	P337+P313	If eye irritation persists: Get medical advice/attention.
	P318	If exposed or concerned, get medical advice.
	P319	Get medical help if you feel unwell.
	P362+P364	Take off contaminated clothing and wash it before reuse.
Storage	P405	Store locked up.
Disposal	P501	Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

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

Hazard Class	Category	Code
Skin Irritation	2	H315
Skin Sensitization	1	H317
Eye Irritation	2	H319
Carcinogenicity	2B	H351

Reproductive Toxicity	1B	H360
Specific Target Organ Toxicity – Repeated Exposure (Oral), Liver, Kidney	2	H373

2.2 Label Elements

WHMIS 2015

DANGER

Hazard Statement	Code
Causes skin irritation	H315
May cause an allergic skin reaction	H317
Causes serious eye irritation	H319
Suspected of causing cancer	H351
May damage fertility or the unborn child	H360
May cause damage to organs (liver, kidney) through prolonged or repeated exposure (oral)	H373

Precautionary Measures

Category	Code	Statement
Prevention	P201	Obtain special instructions before use.
	P203	Obtain, read and follow all safety instructions before use.
	P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
	P264	Wash thoroughly after handling.
	P272	Contaminated work clothing should not be allowed out of the workplace.
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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.
	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.
	P318	If exposed or concerned, get medical advice.
	P319	Get medical help if you feel unwell.
	P362+P364	Take off contaminated clothing and wash it before reuse.
Storage	P405	Store locked up.
Disposal	P501	Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

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

Chemical Name	CAS number	%	LD50/LC50	Classifications According to Regulation/Directive
Aromatic urethane acrylate	Not available	10-12%		**GHS / CLP / OSHA / WHMIS:** Skin Irrit. 2; Eye Irrit. 2; Skin Sens. 1
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid	55818-57-0	6-8%	Ingestion/Oral-Rat LD50 >2000 mg/kg; Skin-Rabbit LD50 >2000 mg/kg	**GHS / CLP:** Skin Sens. 1; Aquatic Chronic 2 **OSHA / WHMIS:** Skin Sens. 1
Tripropylene glycol diacrylate	42978-66-5	2-3%	Ingestion/Oral-Rat LD50 >2000 mg/kg; Skin-Rabbit LD50 >2000 mg/kg	**GHS / CLP:** Skin Irrit. 2; Eye Irrit. 2; Skin Sens. 1; STOT-SE 3; Aquatic Chronic 2 **OSHA / WHMIS:** Skin Irrit. 2; Eye Irrit. 2; Skin Sens. 1; STOT-SE 3
Aromatic urethane acrylate	Not available	2-3%		**GHS / CLP:** Skin Sens. 1; Aquatic Acute 3; Aquatic Chronic 3 **OSHA / WHMIS:** Skin Sens. 1

Glycerol, propoxylated, esters with acrylic acid	52408-84-1	2-3%	Ingestion/Oral-Rat LD50 >2000 mg/kg; Skin-Rat LD50 >2000 mg/kg	**GHS / CLP / OSHA / WHMIS:** Skin Sens. 1; Eye Irrit. 2
Benzophenone	119-61-9	1-2%	Ingestion/Oral-Rat LD50 >10 g/kg; Skin-Rabbit LD50 3535 mg/kg	**GHS:** Carc. 2B; STOT-RE 2; Aquatic Chronic 3 **CLP:** Carc. 1B; STOT-RE 2; Aquatic Chronic 3 **OSHA / WHMIS:** Carc. 2B; STOT-RE 2
2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1	0.5-1%	Ingestion/Oral-Rat LD50 >5000 mg/kg	**GHS / CLP:** Aquatic Acute 1; Aquatic Chronic 1; Repr. 1B; Acute M-Factor = 1 **OSHA / WHMIS:** Repr. 1B

European Chemicals Agency – Candidate List of Substances of Very High Concern for Authorization
2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone, CAS #119313-12-1; 16/01/2020; 0.5-1%

Section 4 - First Aid Measures

4.1 Description of first aid measures
Inhalation. 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. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.
Eye. 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
No data available

Section 5 - Firefighting Measures

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. 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. Material may burn, but does not ignite readily.
Hazardous combustion 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. 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.
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
Use good safety and industrial hygiene practices.
7.2 Conditions for safe storage, including any incompatibilities
Keep container closed when not in use. Store away from extreme heat. Do not freeze. Ventilate enclosed areas.
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 Notifications
Germany DFG

2-(hydroxymethyl)-2-[[(1-oxoallyl)oxy]methyl]-1,3-propanediyl diacrylate (pentaerythritol triacrylate) (3524-68-3): **Sensitizers:** (skin sensitizer)

8.2 Exposure controls

Engineering measures/controls. Local exhaust is recommended but not required. Provide adequate ventilation as necessary.

Personal Protective Equipment

Pictograms

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

Eye/Face: Wear protective eyewear (goggles, face shield, or safety glasses).

Hands: Wear protective gloves - rubber or neoprene.

Skin/Body: Wear protective clothing - apron or other impervious body coverings.

General industrial hygiene considerations: Handle in accordance with good industrial hygiene and safety practice. 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	Blue	**Odor**	Slight acrylic odor
General Properties			
Boiling Point	100 C(212 F)	**Melting/Freezing Point**	0 C (32 F)
Decomposition Temperature	Not relevant	**pH**	No data available
Density	8.9 lbs/gal	**Water Solubility**	Miscible
Viscosity	6500-9500 Centipoise (cPs, cP) or mPas @ 25 C (77 F)	**Kinematic Viscosity**	6100-8900 mm^2/s
Explosive Properties	Not relevant	**Oxidizing Properties**	Not relevant
Volatility			
Vapor Pressure	Not relevant	**Vapor Density**	> 1, air = 1
Evaporation Rate	< 1, water = 1	**VOC (Wt.)**	0 %
Volatiles (Wt.)	55-60 %		
Flammability			
Flash Point	> 212 F(> 100 C)	**UEL**	Not relevant
LEL	Not relevant	**Autoignition**	Not relevant
Flammability (solid, gas)	Non-flammable in liquid form. When dry, product will burn as an ordinary combustible material.		
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

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. Direct sunlight. Excess heat. Avoid freezing.

10.5 Incompatible materials. No data available.

10.6 Hazardous decomposition products. Hazardous decomposition products formed under fire conditions - carbon oxides (COx), nitrogen oxides (NOx). No decomposition is expected under normal storage and use conditions.

Section 11 - Toxicological Information

11.1 Information on toxicological effects

Hazard	**Hazard Classification**
Acute toxicity	Based on available data, the classification criteria are not met

Skin corrosion/irritation	Skin Irritation 3 (GHS)
Serious eye damage/irritation	Eye Irritation 2
Respiratory/skin sensitization	Skin Sensitization 1
Germ cell mutagenicity	Based on available data, the classification criteria are not met
Carcinogenicity	Carcinogenicity 1B (EU), Carcinogenicity 2B
Reproductive toxicity	Reproductive Toxicity1B
STOT-Single Exposure	Based on available data, the classification criteria are not met
STOT-Repeated Exposure	STOT-RE 2
Aspiration	Based on available data, the classification criteria are not met

Route(s) of entry/exposure: Skin, eye, ingestion

Potential Health Effects

Inhalation

Acute (Immediate): No specific information available.

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

Skin

Acute (Immediate): May cause mild irritation.

Chronic (Delayed): Repeated and prolonged exposure may cause sensitization.

Eye

Acute (Immediate): May cause mild irritation.

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

Ingestion

Acute (Immediate): May cause mild irritation.

Chronic (Delayed): Repeated and prolonged exposure may cause damage to organs (liver, kidney).

Section 12 - Ecological Information

12.1 Toxicity

Tripropylene glycol diacrylate

Toxicity to fish	LC50 - Leuciscus idus (Golden orfe) - > 4.6 - < 10 mg/l - 96 h
Toxicity to daphnia	EC50 - Daphnia magna Straus (Water flea) - 89 mg/l - 48 h
Toxicity to algae	ErC50 - Desmodesmus subspicatus (green algae) - 65.9 mg/l - 72 h

Glycerol, propoxylated, esters with acrylic acid

Toxicity to fish	LC50 - LC50 - Danio rerio (zebra fish) - 5.74 mg/l - 96 h
Toxicity to daphnia	EC50 - Daphnia magna (Water flea) - 91.4 mg/l - 48 h
Toxicity to algae	EC50 - Desmodesmus subspicatus (green algae) - 12.2 mg/l - 72 h

Benzophenone

Toxicity to fish	LC50 - Pimephales promelas (fathead minnow) - 14.2 mg/l - 96.0 h
Toxicity to daphnia	EC50 - Daphnia magna (Water flea) - 6.78 mg/l - 48 h
Toxicity to algae	ErC50 - Pseudokirchneriella subcapitata (green algae) - 3.5 mg/l - 72 h

2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone

Toxicity to fish	LC50 - Danio rerio (zebra fish) - > 0.142 mg/l - 96 h
Toxicity to daphnia	NOEC - Daphnia magna (Water flea) - 0.21 mg/l - 21 h
Toxicity to algae	ErC50 - Pseudokirchneriella subcapitata - > 2 mg/l - 72 h

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 Endocrine disrupting properties

No endocrine disrupting components identified

12.7 Other adverse effects

None noted

Section 13 - Disposal Considerations

13.1 Waste treatment methods

Product waste: Dispose of content in accordance with local, regional, national, and/or international regulations.

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

13.2 Other Information

Dispose of wastes in an approved waste disposal facility.

Section 14 - Transport Information

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

14.6 Special precautions for user. None specified.

14.7 Transport in bulk according to IMO instruments. Not relevant.

14.8 Other information

DOT Not regulated.

IMO/IMDG Not regulated.

IATA/ICAO Not regulated.

Section 15 - Regulatory Information

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

SARA hazard classifications. Acute, Chronic

REACH compliance. European Chemicals Agency – Candidate List of Substances of Very High Concern for Authorization2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone, CAS #119313-12-1; 16/01/2020; 0.5-1%

15.2 Chemical Safety Assessment

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

15.3 Other information

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

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

1,4-Dioxane CAS #123-91-1 <0.0001%

Section 16 - Other Information

Relevant phrases (code & full text)

H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H319 - Causes serious eye irritation.
H350 - May cause cancer.
H351 – Suspected of causing cancer.
H360 - May damage fertility or the unborn child.
H373 - May cause damage to organs through prolonged or repeated exposure.
H402 - Harmful to aquatic life.
H412 - Harmful to aquatic life with long lasting effects.
P201 - Obtain special instructions before use.
P203 - Obtain, read and follow all safety instructions before use.
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.
P264 - Wash thoroughly after handling.
P272 - Contaminated work clothing should not be allowed out of the workplace.
P273 - Avoid release to the environment.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
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.
P318 - If exposed or concerned, get medical advice.
P319 - Get medical help if you feel unwell.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P405 - Store locked up.
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: 03 November 2023

Preparation date: 20 November 2023

Changes to the current revision: Corrected California Proposition 65 data in Section 15.3.

Other information

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

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