



Safety Data Sheet

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

1.1 Product identifier

Product Name • **SWAK™ anaerobic pipe thread sealant**

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified use(s) • Thread Sealant

1.3 Details of the supplier of the safety data sheet

Manufacturer • Swagelok Manufacturing Company
29495 F.A. Lennon Dr.
Solon, OH 44139
United States

Telephone (General) • 440-349-5600

1.4 Emergency telephone number

Manufacturer • (800)-424-9300 - Chemtrec

Section 2: Hazards Identification

EU/EEC

According to: Regulation (EC) No 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 style="list-style-type: none"> • Acute Toxicity Oral 4 - H302 • Skin Sensitization 1 - H317 • Eye Irritation 2 - H319 • Germ Cell Mutagenicity 2 - H341 • Carcinogenicity 2 - H351 |
| DSD/DPD | <ul style="list-style-type: none"> • Irritant (Xi) • Harmful (Xn) • Mutagenic Substances - Category 3 • Carcinogenic Substances - Category 3 • R36, R40, R43, R68 |

2.2 Label Elements

CLP

WARNING



Hazard statements • H302 - Harmful if swallowed

H317 - May cause an allergic skin reaction
 H319 - Causes serious eye irritation
 H341 - Suspected of causing genetic defects.
 H351 - Suspected of causing cancer.

Precautionary statements

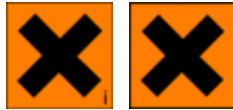
- Prevention**
- P201 - Obtain special instructions before use.
 - P202 - Do not handle until all safety precautions have been read and understood.
 - P261 - Avoid breathing mists, vapours, and/or spray.
 - P264 - Wash thoroughly after handling.
 - P270 - Do not eat, drink or smoke when using this product.
 - P272 - Contaminated work clothing should not be allowed out of the workplace.
 - P280 - Wear protective gloves/protective clothing/eye protection/face protection.
 - P281 - Use personal protective equipment as required.

- Response**
- P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
 - P363 - Wash contaminated clothing before reuse.
 - P321 - Specific treatment, see supplemental first aid information.
 - 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.
 - P301+P312 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician if you feel unwell.
 - P330 - Rinse mouth.
 - P308+P313 - IF exposed or concerned: Get medical advice/attention.

- Storage/Disposal**
- P405 - Store locked up.
 - P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

- Supplemental information**
- 95-99 percent of this product consists of an ingredient of unknown toxicity.

DSD/DPD



- Risk phrases**
- R36 - Irritating to eyes.
 - R40 - Limited evidence of a carcinogenic effect.
 - R43 - May cause sensitisation by skin contact.
 - R68 - Possible risk of irreversible effects.

- Safety phrases**
- S24 - Avoid contact with skin.
 - S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 - S36 - Wear suitable protective clothing.
 - S37 - Wear suitable gloves.
 - S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
 - S53 - Avoid exposure - obtain special instructions before use.

2.3 Other Hazards

- CLP**
- According to Regulation (EC) No. 1272/2008 (CLP) this material is considered hazardous.

- DSD/DPD**
- According to European Directive 1999/45/EC this preparation is considered dangerous.

UN GHS

According to: UN Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

2.1 Classification of the substance or mixture

- UN GHS**
- Acute Toxicity Oral 4
 - Skin Mild Irritation 3
 - Skin Sensitization 1

Eye Irritation 2
 Germ Cell Mutagenicity 2
 Carcinogenicity 2
 Specific Target Organ Toxicity Repeated Exposure 2

2.2 Label elements

UN GHS

WARNING



- Hazard statements**
- Harmful if swallowed
 - Causes mild skin irritation
 - May cause an allergic skin reaction
 - Causes serious eye irritation
 - Suspected of causing genetic defects.
 - Suspected of causing cancer.
 - May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

- Prevention**
- Obtain special instructions before use.
 - Do not handle until all safety precautions have been read and understood.
 - Do not breathe mists, vapours, and/or spray.
 - Wash thoroughly after handling.
 - Do not eat, drink or smoke when using this product.
 - Contaminated work clothing should not be allowed out of the workplace.
 - Wear protective gloves/protective clothing/eye protection/face protection.
 - Use personal protective equipment as required.
- Response**
- IF ON SKIN: Wash with plenty of soap and water.
 - Wash contaminated clothing before reuse.
 - Specific treatment, see supplemental first aid information.
 - If skin irritation or rash occurs: Get medical advice/attention.
 - 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.
 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician if you feel unwell.
 - Rinse mouth.
 - IF exposed or concerned: Get medical advice/attention.
 - Get medical advice/attention if you feel unwell.

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

- Supplemental information**
- 95-99 percent of this product consists of an ingredient of unknown toxicity.

2.3 Other hazards

UN GHS

- According to the Globally Harmonized Standard for Classification and Labeling (GHS) this product is considered hazardous.

United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

2.1 Classification of the substance or mixture

OSHA HCS 2012

- Acute Toxicity Oral 4
- Skin Sensitization 1
- Eye Irritation 2
- Germ Cell Mutagenicity 2
- Carcinogenicity 2
- Specific Target Organ Toxicity Repeated Exposure 2

2.2 Label elements

OSHA HCS 2012

WARNING



- Hazard statements**
- Harmful if swallowed
 - May cause an allergic skin reaction
 - Causes serious eye irritation
 - Suspected of causing genetic defects.
 - Suspected of causing cancer.
 - May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

- Prevention**
- Obtain special instructions before use.
 - Do not handle until all safety precautions have been read and understood.
 - Do not breathe mists, vapours, and/or spray.
 - Wash thoroughly after handling.
 - Do not eat, drink or smoke when using this product.
 - Contaminated work clothing should not be allowed out of the workplace.
 - Wear protective gloves/protective clothing/eye protection/face protection.
- Response**
- If on skin: Wash with plenty of water .
 - Wash contaminated clothing before reuse.
 - Specific treatment, see supplemental first aid information.
 - If skin irritation or rash occurs: Get medical advice/attention.
 - 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.
 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician if you feel unwell.
 - Rinse mouth.
 - IF exposed or concerned: Get medical advice/attention.
 - Get medical advice/attention if you feel unwell.

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

- Supplemental information**
- 95-99 percent of this product consists of an ingredient of unknown toxicity.

2.3 Other hazards

OSHA HCS 2012

- Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

Canada

According to: WHMIS

2.1 Classification of the substance or mixture

WHMIS

- Other Toxic Effects - D2A
- Other Toxic Effects - D2B

2.2 Label elements

WHMIS



- Other Toxic Effects - D2A
- Other Toxic Effects - D2B

2.3 Other hazards

WHMIS

- In Canada, the product mentioned above is considered hazardous under the

Workplace Hazardous Materials Information System (WHMIS).

Section 3 - Composition/Information on Ingredients

3.1 Substances

- Material does not meet the criteria of a substance.

3.2 Mixtures

Composition					
Chemical Name	Identifiers	%	LD50/LC50	Classifications According to Regulation/Directive	Comments
Polytetrafluoroethylene	CAS:9002-84-0	30% TO 40%	NDA	UN GHS: Not Classified EU DSD/DPD: Not Classified EU CLP: Not Classified OSHA HCS 2012: Not Classified	NDA
ethoxylated Bisphenol A Dimethacrylate	CAS:41637-38-1	30% TO 40%	NDA	UN GHS: Eye Irrit. 2; Skin Sens. 1 EU DSD/DPD: Xi R36, R43 EU CLP: Eye Irrit. 2, H319; Skin Sens. 1, H317 OSHA HCS 2012: Eye Irrit. 2; Skin Sens. 1	NDA
Polymeric Plasticizer	Proprietary	20% TO 30%	NDA	UN GHS: Not Classified EU DSD/DPD: Not Classified EU CLP: Not Classified OSHA HCS 2012: Not Classified	NDA
Titanium dioxide	CAS:13463-67-7 EC Number:236-675-5	1% TO 5%	NDA	UN GHS: Skin Irrit. 3; Muta. 2; Carc. 2; STOT RE 2 (Lungs); Aquatic Chronic 4 EU DSD/DPD: Mut. Cat. 3, Xn, R68; Carc. Cat. 3, Xn, R40-48/20 EU CLP: Muta. 2, H341; Carc. 2, H351; STOT RE 2 (Lungs), H373 OSHA HCS 2012: Muta. 2; Carc. 2; STOT RE 2 (Lungs)	NDA
Polyethylene glycol	CAS:25322-68-3	1% TO 5%	Ingestion/Oral-Rat LD50 • 600 mg/kg Skin-Rabbit LD50 • >20 g/kg	UN GHS: Skin Irrit. 3; Eye Irrit. 2; Acute Tox 4 (orl) EU DSD/DPD: Xn; R22 EU CLP: Acute Tox. 4, H302; Eye Irrit. 2, H319 OSHA HCS 2012: Comb. Dust; Acute Tox. 4 (orl); Eye Irrit. 2	NDA
Silica, amorphous fumed	CAS:112945-52-5	< 1%	Ingestion/Oral-Rat LD50 • 3160 mg/kg	UN GHS: Acute Tox. 5 (orl) EU DSD/DPD: Not Classified EU CLP: Not Classified OSHA HCS 2012: Not Classified	A new CAS, 11245-52-5, has been assigned to amorphous, fumed silica to distinguish it from crystalline silica. This product meets TSCA requirements and is listed on the TSCA inventory as silica with CAS 7631-86-9.
				UN GHS: Org. Perox. F; Flam Liq. 4; Skin Corr. 1; Eye Dam 1; Acute	

Polymeric Initiator	Proprietary	< 1%	Ingestion/Oral- Rat LD50 • 382 mg/kg Inhalation-Rat LC50 • 220 ppm 4 Hour(s)	Tox. 3 (skn); Acute Tox. 2 (inhl); Acute Tox. 4 (orl); Skin Irrit. 3; Aquatic Acute 2 EU DSD/DPD: Annex VI, Table 3.2: O; R7 T; R23 Xn; R21/22-48/20/22 C; R34 N; R51-53 EU CLP: Annex VI, Table 3.1: Org. Perox. E, H242; Acute Tox. 3 *, H331; Acute Tox. 4 *, H312; Acute Tox. 4 *, H302; STOT RE 2 *, H373 **; Skin Corr. 1B, H314; Aquatic Chronic 2, H411 OSHA HCS 2012: Org. Perox. F; Flam Liq. 4; Skin Corr. 1; Eye Dam 1; Acute Tox. 3 (skn); Acute Tox. 2 (inhl); Acute Tox. 4 (orl)	NDA
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See Section 16 for full text of H-statements and R-phrases.

Section 4 - First Aid Measures

4.1 Description of first aid measures

Inhalation

- First aid is not expected to be necessary if material is used under ordinary conditions and as recommended. Move victim to fresh air. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing. Get medical attention if symptoms occur.

Skin

- If on skin wipe off excess then wash with plenty of soap and water. Get medical attention if symptoms occur. Wash contaminated clothing before reuse.

Eye

- If in eyes do not rub, dab while removing excess. Flush eyes with running water. Get medical attention if symptoms occur.

Ingestion

- First aid is not expected to be necessary if material is used under ordinary conditions and as recommended. Get medical attention if symptoms occur.

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 Physician

- All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

4.4 Other information

- Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

Section 5 - Firefighting Measures

5.1 Extinguishing media

Suitable Extinguishing Media • Use CO₂, dry chemical, or foam.

Unsuitable Extinguishing Media • No data available.

5.2 Special hazards arising from the substance or mixture

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

Hazardous Combustion Products • At temperatures above 482F/250C, may produce decomposition products containing carbon monoxide, carbon dioxide, hydrogen products or gases formed: fluoride, and

perfluoro hydrocarbons.

5.3 Advice for firefighters

- Structural firefighters' protective clothing will only provide limited protection. Wear positive pressure self-contained breathing apparatus (SCBA). Keep unauthorized personnel away.

Section 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

- Personal Precautions**
- Do not walk through spilled material. Wear appropriate personal protective equipment, avoid direct contact.
- Emergency Procedures**
- None required.

6.2 Environmental precautions

- No special precautions required.

6.3 Methods and material for containment and cleaning up

- Containment/Clean-up Measures**
- Stop leak if you can do it without risk.
SMALL SPILLS: Wipe up and place into containers for later disposal.

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. Avoid contact with heat and ignition sources. Wear appropriate personal protective equipment, avoid direct contact. Do not breathe mists, vapours, and/or spray. Avoid contact with skin, eyes, and clothing. Do not eat, drink or smoke when using this product. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

7.2 Conditions for safe storage, including any incompatibilities

- Storage**
- Store away from heat and ignition sources at ambient temperature. Store in original container.

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	Canada Ontario	Canada Quebec	China	Germany DFG
Titanium dioxide (13463-67-7)	STELs	Not established	Not established	Not established	16 mg/m ³ STEL (total dust)	Not established
	TWAs	10 mg/m ³ TWA	10 mg/m ³ TWA	10 mg/m ³ TWAEV (containing no Asbestos and <1% Crystalline silica, total dust)	8 mg/m ³ TWA (total dust)	Not established
Silica, amorphous (7631-86-9)	MAKs	Not established	Not established	Not established	Not established	4 mg/m ³ TWA MAK (inhalable fraction)

Polyethylene glycol (25322-68-3)	Ceilings	Not established	Not established	Not established	Not established	8000 mg/m3 Peak (average molecular weight 200-600, inhalable fraction)
	MAKs	Not established	Not established	Not established	Not established	1000 mg/m3 TWA MAK (average molecular weight 200-600, inhalable fraction)
Polytetrafluoroethylene as Particulates not otherwise classified (PNOC)	STELs	Not established	Not established	Not established	16 mg/m3 STEL (free SiO2 <10%, except asbestos and toxic substances. Use PC-STEL of silica When free SiO2 >10%, total) <i>as Particulates not otherwise classified (PNOC)</i>	Not established
	TWAs	10 mg/m3 TWA (inhalable particles, recommended); 3 mg/m3 TWA (respirable particles, recommended) <i>as Particulates not otherwise classified (PNOC)</i>	10 mg/m3 TWA (inhalable); 3 mg/m3 TWA (respirable) <i>as Particulates not otherwise classified (PNOC)</i>	2.5 mg/m3 TWAEV (decomposition products; determine quantitatively the decomposition products in the air and express the results as Fluorides, listed under Polytetrafluoroethylene decomposition products)	8 mg/m3 TWA (free SiO2 <10%, except asbestos and toxic substances. Use PC-TWA of silica When free SiO2 >10%, total) <i>as Particulates not otherwise classified (PNOC)</i>	Not established

Exposure Limits/Guidelines (Con't.)

	Result	Germany TRGS	Japan	Korea	NIOSH	OSHA
Titanium dioxide (13463-67-7)	TWAs	Not established	0.3 mg/m3 (Provisional)	10 mg/m3 TWA (Serial No. 461)	Not established	15 mg/m3 TWA (total dust)
Silica, amorphous (7631-86-9)	TWAs	4 mg/m3 TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, inhalable fraction)	Not established	Not established	6 mg/m3 TWA	Not established
Polyethylene glycol (25322-68-3)	TWAs	1000 mg/m3 TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, average molecular weight 200-400, inhalable fraction, exposure factor 8)	Not established	Not established	Not established	Not established

Polytetrafluoroethylene as Particulates not otherwise classified (PNOC)	TWAs	Not established	Not established	10 mg/m3 TWA (no more than 1% crystalline silica, Serial No. 717) as Particulates not otherwise classified (PNOC)	Not established	15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction) as Particulates not otherwise classified (PNOC)
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Exposure Control Notations

ACGIH

•Titanium dioxide (13463-67-7): **Carcinogens:** (A4 - Not Classifiable as a Human Carcinogen)

Germany DFG

•Polyethylene glycol (25322-68-3): **Pregnancy:** (no risk to embryo/fetus if exposure limits adhered to (average molecular weight 200 - 600))

•Titanium dioxide (13463-67-7): **Carcinogens:** (Category 3A (could be carcinogenic for man, inhalable fraction with the exception of ultra small particles))

•Silica, amorphous (7631-86-9): **Pregnancy:** (no risk to embryo/fetus if exposure limits adhered to)

Exposure Limits Supplemental

OSHA

•Silica, amorphous (7631-86-9): **Mineral Dusts:** (20 mppcf TWA; (80)/(%) SiO2) mg/m3 TWA)

ACGIH

•Titanium dioxide (13463-67-7): **TLV Basis - Critical Effects:** (lower respiratory tract irritation) | **Notice of Intended Changes (TLVs):** (Withdrawn from notice of intended changes)

8.2 Exposure controls

Engineering Measures/Controls

- Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Personal Protective Equipment

Respiratory

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

Eye/Face

- Protective eye wear is recommended if there is potential for eye contact.

Skin/Body

- Wear appropriate gloves.

Environmental Exposure Controls

- Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways. Follow best practice for site management and disposal of waste.

Key to abbreviations

ACGIH = American Conference of Governmental Industrial Hygiene

STEL = Short Term Exposure Limits are based on 15-minute exposures

MAK = Maximale Arbeitsplatz Konzentration is the maximum permissible concentration

TLV = Threshold Limit Value determined by the American Conference of Governmental Industrial Hygienists (ACGIH)

NIOSH = National Institute of Occupational Safety and Health

TWAEV = Time-Weighted Average Exposure Value

OSHA = Occupational Safety and Health Administration

TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

Section 9 - Physical and Chemical Properties

9.1 Information on Physical and Chemical Properties

Material Description			
Physical Form	Liquid (Gritty paste)	Appearance/Description	Grainy off-white paste with mild odor.
Color	Off-white	Odor	Mild

Odor Threshold	Data lacking		
General Properties			
Boiling Point	Data lacking	Melting Point	Data lacking
Decomposition Temperature	Data lacking	pH	Data lacking
Specific Gravity/Relative Density	Data lacking	Density	1.3 g/mL
Water Solubility	Data lacking	Viscosity	Data lacking
Explosive Properties	Data lacking	Oxidizing Properties:	Data lacking
Volatility			
Vapor Pressure	Data lacking	Vapor Density	Data lacking
Evaporation Rate	Data lacking		
Flammability			
Flash Point	> 230 F(> 110 C)	UEL	Data lacking
LEL	Data lacking	Autoignition	Data lacking
Flammability (solid, gas)	Data lacking		
Environmental			
Octanol/Water Partition coefficient	Data lacking		

9.2 Other Information

- No additional physical and chemical parameters noted.

Section 10: Stability and Reactivity

10.1 Reactivity

- No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

- Stable

10.3 Possibility of hazardous reactions

- Hazardous polymerization will not occur.

10.4 Conditions to avoid

- At temperatures above 482F/250C, hazardous fumes may be generated.

10.5 Incompatible materials

- Pure oxygen, fluorine, chlorine, oxidizers, strong reducers, free radical initiators, oxygen scavengers, peroxides, persulfates, accelerators, strong bases, and strong acids.

10.6 Hazardous decomposition products

- At temperatures above 482F/250C, may produce decomposition products containing carbon monoxide, carbon dioxide, hydrogen products or gases formed: fluoride, and perfluoro hydrocarbons.

Section 11 - Toxicological Information

11.1 Information on toxicological effects

Components		
Polyethylene glycol (1% TO 5%)	25322-68-3	Acute Toxicity: Ingestion/Oral-Rat LD50 • 600 mg/kg; Irritation: Eye-Rabbit • 100 µL • Mild irritation
		Irritation: Skin-Human • 300 µg 3 Day(s)-Intermittent • Mild irritation; Multi-dose Toxicity: Inhalation-Rat TClO • 250 mg/m ³ 6 Hour(s) 4 Week(s)-Intermittent; <i>Lungs, Thorax, or</i>

Titanium dioxide (1% TO 5%)	13463-67-7	<p>Respiration:Chronic pulmonary edema; Lungs, Thorax, or Respiration:Other changes; Inhalation-Rat TCl₀ • 10 mg/m³ 6 Hour(s) 13 Week(s)-Intermittent; Lungs, Thorax, or Respiration:Fibrosis (interstitial); Lungs, Thorax, or Respiration:Other changes; Biochemical:Metabolism (intermediary):Effect on inflammation or mediation of inflammation;</p> <p>Mutagen: Micronucleus test • Ingestion/Oral-Mouse • 280 mg/kg 7 Day(s)-Intermittent; DNA damage • Ingestion/Oral-Mouse • 280 mg/kg 7 Day(s)-Intermittent; Cytogenetic analysis • Ingestion/Oral-Mouse • 280 mg/kg 7 Day(s)-Intermittent;</p> <p>Tumorigen / Carcinogen: Inhalation-Rat • 10 mg/m³ 18 Hour(s) 2 Year(s)-Intermittent; Tumorigenic:Carcinogenic by RTECS criteria; Lungs, Thorax, or Respiration:Tumors; Inhalation-Rat TCl₀ • 250 mg/m³ 6 Hour(s) 2 Year(s)-Intermittent; Tumorigenic:Carcinogenic by RTECS criteria; Lungs, Thorax, or Respiration:Tumors</p>
Polymeric Initiator (< 1%)	Proprietary	<p>Acute Toxicity: Ingestion/Oral-Rat LD50 • 382 mg/kg; Kidney, Ureter, and Bladder:Hematuria; Inhalation-Rat LC50 • 220 ppm 4 Hour(s); Lungs, Thorax, or Respiration:Dyspnea; Skin-Rat LD50 • 500 mg/kg; Behavioral:Convulsions or effect on seizure threshold; Kidney, Ureter, and Bladder:Hematuria;</p> <p>Irritation: Eye-Rabbit • 1 mg; Skin-Rabbit • 500 mg • Mild irritation;</p> <p>Multi-dose Toxicity: Inhalation-Rat TCl₀ • 50 ppm 4 Hour(s) 3 Day(s)-Intermittent; Lungs, Thorax, or Respiration:Other changes; Kidney, Ureter, and Bladder:Other changes; Related to Chronic Data:Death in the Other Multiple Dose data type field;</p> <p>Mutagen: DNA damage • Skin-Mouse • 100 mg/kg;</p> <p>Tumorigen / Carcinogen: Skin-Mouse TDLo • 18000 µg/kg 18 Week(s)-Intermittent; Tumorigenic:Carcinogenic by RTECS criteria; Skin and Appendages:Other:Tumors; Tumorigenic:Facilitates action of known carcinogen</p>
Silica, amorphous fumed (< 1%)	112945-52-5	<p>Acute Toxicity: Ingestion/Oral-Rat LD50 • 3160 mg/kg;</p> <p>Multi-dose Toxicity: Inhalation-Rat TCl₀ • 154 mg/m³ 6 Hour(s) 4 Week(s)-Intermittent; Lungs, Thorax, or Respiration:Structural or functional change in trachea or bronchi; Biochemical:Enzyme inhibition, induction, or change in blood or tissue levels:Dehydrogenases; Biochemical:Metabolism (intermediary):Other proteins</p>

GHS Properties	Classification
Acute toxicity	<p>EU/CLP • Acute Toxicity - Oral 4 - ATEmix (oral) = 600 mg/kg</p> <p>OSHA HCS 2012 • Acute Toxicity - Oral 4 - ATEmix (oral) = 600 mg/kg</p> <p>UN GHS • Acute Toxicity - Oral 4 - ATEmix (oral) = 600 mg/kg</p>
Aspiration Hazard	<p>EU/CLP • Data lacking</p> <p>OSHA HCS 2012 • Data lacking</p> <p>UN GHS • Data lacking</p>
Carcinogenicity	<p>EU/CLP • Carcinogenicity 2</p> <p>OSHA HCS 2012 • Carcinogenicity 2</p> <p>UN GHS • Carcinogenicity 2</p>
Germ Cell Mutagenicity	<p>EU/CLP • Germ Cell Mutagenicity 2</p> <p>OSHA HCS 2012 • Germ Cell Mutagenicity 2</p> <p>UN GHS • Germ Cell Mutagenicity 2</p>
Skin corrosion/Irritation	<p>EU/CLP • Data lacking</p> <p>OSHA HCS 2012 • Data lacking</p> <p>UN GHS • Skin Mild Irritation 3</p>
Skin sensitization	<p>EU/CLP • Skin Sensitizer 1</p> <p>OSHA HCS 2012 • Skin Sensitizer 1</p> <p>UN GHS • Skin Sensitizer 1</p>
STOT-RE	<p>EU/CLP • Data lacking</p> <p>OSHA HCS 2012 • Specific Target Organ Toxicity Repeated Exposure 2</p> <p>UN GHS • Specific Target Organ Toxicity Repeated Exposure 2</p>
STOT-SE	<p>EU/CLP • Data lacking</p> <p>OSHA HCS 2012 • Data lacking</p>

	UN GHS • Data lacking
Toxicity for Reproduction	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking UN GHS • Data lacking
Respiratory sensitization	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking UN GHS • Data lacking
Serious eye damage/Irritation	EU/CLP • Eye Irritation 2 OSHA HCS 2012 • Eye Irritation 2 UN GHS • Eye Irritation 2

Potential Health Effects

Inhalation

Acute (Immediate)

- Under normal conditions of use, no health effects are expected. Inhalation of decomposition products can cause temporary influenza-like symptoms which are described as “polymer fume fever”. Symptoms include fever, cough and malaise.

Chronic (Delayed)

- Repeated and prolonged exposure to titanium, a component of this material, may cause damage to the lungs.

Skin

Acute (Immediate)

- Contact with SWAK may cause mild skin irritation. May cause skin sensitization. Symptoms include redness, and skin rash.

Chronic (Delayed)

- No data available.

Eye

Acute (Immediate)

- Causes serious eye irritation.

Chronic (Delayed)

- No data available.

Ingestion

Acute (Immediate)

- Harmful if swallowed.

Chronic (Delayed)

- No data available.

Mutagenic Effects

- Repeated and prolonged exposure may cause mutagenic effects.

Carcinogenic Effects

- Titanium dioxide has been listed as a possible human carcinogen by IARC (Group 2B). According to IARC, some inhalation studies on experimental animals have suggested the carcinogenicity of high concentrations of titanium dioxide. However, during normal conditions of use inhalation of this material is not expected to occur.

Carcinogenic Effects		
	CAS	IARC
Titanium dioxide	13463-67-7	Group 2B-Possible Carcinogen

Key to abbreviations

LC = Lethal Concentration

LD = Lethal Dose

TC = Toxic Concentration

TD = Toxic Dose

Section 12 - Ecological Information

12.1 Toxicity

- Material data lacking.

12.2 Persistence and degradability

- Material data lacking.

12.3 Bioaccumulative potential

- Material data lacking.

12.4 Mobility in Soil

- Material data lacking.

12.5 Results of PBT and vPvB assessment

- No PBT and vPvB assessment has been conducted.

12.6 Other adverse effects

- No studies have been found.

Section 13 - Disposal Considerations

13.1 Waste treatment methods

Product waste

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

Packaging waste

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

Section 14 - Transport Information

	14.1 UN number	14.2 UN proper shipping name	14.3 Transport hazard class(es)	14.4 Packing group	14.5 Environmental hazards
DOT	NDA	Not Regulated	NDA	NDA	NDA
TDG	NDA	Not Regulated	NDA	NDA	NDA
IMO/IMDG	NDA	Not Regulated	NDA	NDA	NDA
IATA/ICAO	NDA	Not Regulated	NDA	NDA	NDA

14.6 Special precautions for user

- None specified.

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

- Data lacking.

14.8 Other information

- This material is not a regulated hazardous material with respect to the following transportation regulations: United States Department of Transportation (US DOT), Canadian Transportation of Dangerous Goods (TDG), Europe Transport of Dangerous Goods by Road/Inland Waterway (ADN), Europe Transport of Dangerous Goods by Road/Inland Waterway (ADR), International Air Transport Association (IATA) or International Maritime Transport (IMO/IMDG).

Section 15 - Regulatory Information

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

SARA Hazard Classifications ● Acute, Chronic

State Right To Know				
Component	CAS	MA	NJ	PA
Polymeric Initiator	<i>Proprietary</i>	Yes	Yes	Yes
ethoxylated Bisphenol A Dimethacrylate	41637-38-1	No	No	No
Polyethylene glycol	25322-68-3	No	No	No
Polytetrafluoroethylene	9002-84-0	No	No	Yes
Silica, amorphous fumed	112945-52-5	No	No	No
Titanium dioxide	13463-67-7	Yes	Yes	Yes

Inventory						
Component	CAS	Canada DSL	Canada NDSL	China	EU EINECS	EU ELNICS
Polymeric Initiator	<i>Proprietary</i>	Yes	No	Yes	Yes	No
ethoxylated Bisphenol A Dimethacrylate	41637-38-1	Yes	No	Yes	No	No
Polyethylene glycol	25322-68-3	Yes	No	Yes	No	No
Polytetrafluoroethylene	9002-84-0	Yes	No	Yes	No	No
Silica, amorphous fumed	112945-52-5	Yes	No	Yes	No	No
Titanium dioxide	13463-67-7	Yes	No	Yes	Yes	No

Inventory (Con't.)				
Component	CAS	Japan ENCS	Korea KECL	TSCA
Polymeric Initiator	<i>Proprietary</i>	Yes	Yes	Yes
ethoxylated Bisphenol A Dimethacrylate	41637-38-1	Yes	No	Yes
Polyethylene glycol	25322-68-3	Yes	Yes	Yes
Polytetrafluoroethylene	9002-84-0	Yes	Yes	Yes
Silica, amorphous fumed	112945-52-5	Yes	Yes	No
Titanium dioxide	13463-67-7	Yes	Yes	Yes

Australia

Labor

Australia - Work Health and Safety Regulations - Hazardous Substances Requiring Health Monitoring

• ethoxylated Bisphenol A Dimethacrylate	41637-38-1	Not Listed
• Polyethylene glycol	25322-68-3	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Polymeric Initiator	<i>Proprietary</i>	Not Listed
• Polytetrafluoroethylene	9002-84-0	Not Listed
• Silica, amorphous fumed	112945-52-5	Not Listed

Australia - High Volume Industrial Chemicals List

• ethoxylated Bisphenol A Dimethacrylate	41637-38-1	Not Listed
• Polyethylene glycol	25322-68-3	Not Listed
• Titanium dioxide	13463-67-7	

• Polymeric Initiator	<i>Proprietary</i>	Not Listed
• Polytetrafluoroethylene	9002-84-0	Not Listed
• Silica, amorphous fumed	112945-52-5	Not Listed

Australia - List of Designated Hazardous Substances - Classification

• ethoxylated Bisphenol A Dimethacrylate	41637-38-1	Not Listed
• Polyethylene glycol	25322-68-3	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Polymeric Initiator	<i>Proprietary</i>	O, T, Xn, C, N R7, R23, R21/22, R48/20/22, R34, R51, R53
• Polytetrafluoroethylene	9002-84-0	Not Listed
• Silica, amorphous fumed	112945-52-5	Self classification required (respirable dust)

Environment**Australia - National Pollutant Inventory (NPI) Substance List**

• ethoxylated Bisphenol A Dimethacrylate	41637-38-1	Not Listed
• Polyethylene glycol	25322-68-3	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Polymeric Initiator	<i>Proprietary</i>	Not Listed
• Polytetrafluoroethylene	9002-84-0	Not Listed
• Silica, amorphous fumed	112945-52-5	Not Listed

Australia - Ozone Protection Act - Scheduled Substances

• ethoxylated Bisphenol A Dimethacrylate	41637-38-1	Not Listed
• Polyethylene glycol	25322-68-3	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Polymeric Initiator	<i>Proprietary</i>	Not Listed
• Polytetrafluoroethylene	9002-84-0	Not Listed
• Silica, amorphous fumed	112945-52-5	Not Listed

Australia - Priority Existing Chemical Program

• ethoxylated Bisphenol A Dimethacrylate	41637-38-1	Not Listed
• Polyethylene glycol	25322-68-3	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Polymeric Initiator	<i>Proprietary</i>	Not Listed
• Polytetrafluoroethylene	9002-84-0	Not Listed
• Silica, amorphous fumed	112945-52-5	Not Listed

Canada**Labor****Canada - WHMIS - Classifications of Substances**

• ethoxylated Bisphenol A Dimethacrylate	41637-38-1	Not Listed
• Polyethylene glycol	25322-68-3	Not Listed
• Titanium dioxide	13463-67-7	D2A (In certain cases, this classification does not apply. For more information, consult the section Substance Specific Issues - Titanium dioxide, mixture containing on Health Canada's WHMIS Division website.)
• Polymeric Initiator	<i>Proprietary</i>	B3, C, D1A, E

• Polytetrafluoroethylene	9002-84-0	Uncontrolled product according to WHMIS classification criteria
• Silica, amorphous fumed	112945-52-5	Not Listed

Canada - WHMIS - Ingredient Disclosure List

• ethoxylated Bisphenol A Dimethacrylate	41637-38-1	Not Listed
• Polyethylene glycol	25322-68-3	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Polymeric Initiator	<i>Proprietary</i>	1 %
• Polytetrafluoroethylene	9002-84-0	Not Listed
• Silica, amorphous fumed	112945-52-5	Not Listed

Environment**Canada - CEPA - Priority Substances List**

• ethoxylated Bisphenol A Dimethacrylate	41637-38-1	Not Listed
• Polyethylene glycol	25322-68-3	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Polymeric Initiator	<i>Proprietary</i>	Not Listed
• Polytetrafluoroethylene	9002-84-0	Not Listed
• Silica, amorphous fumed	112945-52-5	Not Listed

Europe**Other****EU - CLP (1272/2008) - Annex VI - Table 3.2 - Classification**

• ethoxylated Bisphenol A Dimethacrylate	41637-38-1	Not Listed
• Polyethylene glycol	25322-68-3	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Polymeric Initiator	<i>Proprietary</i>	Xn; R21/22-48/20/22 T; R23 C; R34 N; R51-53 O; R7
• Polytetrafluoroethylene	9002-84-0	Not Listed
• Silica, amorphous fumed	112945-52-5	Not Listed

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Concentration Limits

• ethoxylated Bisphenol A Dimethacrylate	41637-38-1	Not Listed
• Polyethylene glycol	25322-68-3	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Polymeric Initiator	<i>Proprietary</i>	10%≤C: C; R:34 3% ≤C<10%: Xi; R:37/38-41 1% ≤C<3%: Xi; R:36/37
• Polytetrafluoroethylene	9002-84-0	Not Listed
• Silica, amorphous fumed	112945-52-5	Not Listed

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Labelling

• ethoxylated Bisphenol A Dimethacrylate	41637-38-1	Not Listed
• Polyethylene glycol	25322-68-3	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Polymeric Initiator	<i>Proprietary</i>	O T N R:7-21/22-23-34-48/20/22-51/53 S:(1/2)-3/7-14-36/37/39-45-50-61
• Polytetrafluoroethylene	9002-84-0	Not Listed
• Silica, amorphous fumed	112945-52-5	Not Listed

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Notes - Substances and Preparations

• ethoxylated Bisphenol A Dimethacrylate	41637-38-1	Not Listed
• Polyethylene glycol	25322-68-3	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Polymeric Initiator	<i>Proprietary</i>	Not Listed
• Polytetrafluoroethylene	9002-84-0	Not Listed
• Silica, amorphous fumed	112945-52-5	Not Listed

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Safety Phrases

• ethoxylated Bisphenol A Dimethacrylate	41637-38-1	Not Listed
• Polyethylene glycol	25322-68-3	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Polymeric Initiator	<i>Proprietary</i>	S:(1/2)-3/7-14-36/37/39-45-50-61
• Polytetrafluoroethylene	9002-84-0	Not Listed
• Silica, amorphous fumed	112945-52-5	Not Listed

Japan**Labor****Japan - ISHL Dangerous Substances**

• ethoxylated Bisphenol A Dimethacrylate	41637-38-1	Not Listed
• Polyethylene glycol	25322-68-3	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Polymeric Initiator	<i>Proprietary</i>	Explosive substance (listed under Organic peroxides)
• Polytetrafluoroethylene	9002-84-0	Not Listed
• Silica, amorphous fumed	112945-52-5	Not Listed

Japan - ISHL Designated Carcinogens

• ethoxylated Bisphenol A Dimethacrylate	41637-38-1	Not Listed
• Polyethylene glycol	25322-68-3	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Polymeric Initiator	<i>Proprietary</i>	Not Listed
• Polytetrafluoroethylene	9002-84-0	Not Listed
• Silica, amorphous fumed	112945-52-5	Not Listed

Japan - ISHL Harmful Substances Prohibited for Manufacture

• ethoxylated Bisphenol A Dimethacrylate	41637-38-1	Not Listed
• Polyethylene glycol	25322-68-3	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Polymeric Initiator	<i>Proprietary</i>	Not Listed
• Polytetrafluoroethylene	9002-84-0	Not Listed
• Silica, amorphous fumed	112945-52-5	Not Listed

Japan - ISHL Harmful Substances Requiring Workers to Subject to Medical Exams

• ethoxylated Bisphenol A Dimethacrylate	41637-38-1	Not Listed
• Polyethylene glycol	25322-68-3	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Polymeric Initiator	<i>Proprietary</i>	Not Listed
• Polytetrafluoroethylene	9002-84-0	Not Listed
• Silica, amorphous fumed	112945-52-5	Not Listed

Japan - ISHL Harmful Substances Subject to Obtaining Permission for Manufacturing

• ethoxylated Bisphenol A Dimethacrylate	41637-38-1	Not Listed
• Polyethylene glycol	25322-68-3	Not Listed

• Titanium dioxide	13463-67-7	Not Listed
• Polymeric Initiator	<i>Proprietary</i>	Not Listed
• Polytetrafluoroethylene	9002-84-0	Not Listed
• Silica, amorphous fumed	112945-52-5	Not Listed

Japan - ISHL Harmful Substances Whose Names Are to be Indicated on the Label

• ethoxylated Bisphenol A Dimethacrylate	41637-38-1	Not Listed
• Polyethylene glycol	25322-68-3	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Polymeric Initiator	<i>Proprietary</i>	Not Listed
• Polytetrafluoroethylene	9002-84-0	Not Listed
• Silica, amorphous fumed	112945-52-5	Not Listed

Japan - ISHL Prevention of Lead Poisoning

• ethoxylated Bisphenol A Dimethacrylate	41637-38-1	Not Listed
• Polyethylene glycol	25322-68-3	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Polymeric Initiator	<i>Proprietary</i>	Not Listed
• Polytetrafluoroethylene	9002-84-0	Not Listed
• Silica, amorphous fumed	112945-52-5	Not Listed

Japan - ISHL Mutagens - Existing Chemicals

• ethoxylated Bisphenol A Dimethacrylate	41637-38-1	Not Listed
• Polyethylene glycol	25322-68-3	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Polymeric Initiator	<i>Proprietary</i>	Not Listed
• Polytetrafluoroethylene	9002-84-0	Not Listed
• Silica, amorphous fumed	112945-52-5	Not Listed

Japan - ISHL Mutagens - New Chemicals

• ethoxylated Bisphenol A Dimethacrylate	41637-38-1	Not Listed
• Polyethylene glycol	25322-68-3	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Polymeric Initiator	<i>Proprietary</i>	Not Listed
• Polytetrafluoroethylene	9002-84-0	Not Listed
• Silica, amorphous fumed	112945-52-5	Not Listed

Japan - ISHL Notifiable Substances

• ethoxylated Bisphenol A Dimethacrylate	41637-38-1	Not Listed
• Polyethylene glycol	25322-68-3	Not Listed
• Titanium dioxide	13463-67-7	>1 % weight [Table 9, 191]
• Polymeric Initiator	<i>Proprietary</i>	Not Listed
• Polytetrafluoroethylene	9002-84-0	Not Listed
• Silica, amorphous fumed	112945-52-5	>0.1 % weight [Table 9, 312] (listed under Silica)

Environment**Japan - Air Pollution Control Law - Emission Standards for Air Pollutants**

• ethoxylated Bisphenol A Dimethacrylate	41637-38-1	Not Listed
• Polyethylene glycol	25322-68-3	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Polymeric Initiator	<i>Proprietary</i>	Not Listed
• Polytetrafluoroethylene	9002-84-0	Not Listed
• Silica, amorphous fumed	112945-52-5	Not Listed

Japan - Environmental Quality Standards - Annual Air Quality

• ethoxylated Bisphenol A Dimethacrylate	41637-38-1	Not Listed
• Polyethylene glycol	25322-68-3	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Polymeric Initiator	<i>Proprietary</i>	Not Listed
• Polytetrafluoroethylene	9002-84-0	Not Listed
• Silica, amorphous fumed	112945-52-5	Not Listed

Japan - Environmental Quality Standards - Daily Air Quality

• ethoxylated Bisphenol A Dimethacrylate	41637-38-1	Not Listed
• Polyethylene glycol	25322-68-3	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Polymeric Initiator	<i>Proprietary</i>	Not Listed
• Polytetrafluoroethylene	9002-84-0	Not Listed
• Silica, amorphous fumed	112945-52-5	Not Listed

Japan - Environmental Quality Standards - Groundwater

• ethoxylated Bisphenol A Dimethacrylate	41637-38-1	Not Listed
• Polyethylene glycol	25322-68-3	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Polymeric Initiator	<i>Proprietary</i>	Not Listed
• Polytetrafluoroethylene	9002-84-0	Not Listed
• Silica, amorphous fumed	112945-52-5	Not Listed

Japan - Environmental Quality Standards - Hourly Air Quality

• ethoxylated Bisphenol A Dimethacrylate	41637-38-1	Not Listed
• Polyethylene glycol	25322-68-3	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Polymeric Initiator	<i>Proprietary</i>	Not Listed
• Polytetrafluoroethylene	9002-84-0	Not Listed
• Silica, amorphous fumed	112945-52-5	Not Listed

Japan - Environmental Quality Standards - Soil Pollution

• ethoxylated Bisphenol A Dimethacrylate	41637-38-1	Not Listed
• Polyethylene glycol	25322-68-3	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Polymeric Initiator	<i>Proprietary</i>	Not Listed
• Polytetrafluoroethylene	9002-84-0	Not Listed
• Silica, amorphous fumed	112945-52-5	Not Listed

Japan - Environmental Quality Standards - Public Water/Groundwater - Monitored Substances and Guideline Values

• ethoxylated Bisphenol A Dimethacrylate	41637-38-1	Not Listed
• Polyethylene glycol	25322-68-3	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Polymeric Initiator	<i>Proprietary</i>	Not Listed
• Polytetrafluoroethylene	9002-84-0	Not Listed
• Silica, amorphous fumed	112945-52-5	Not Listed

Japan - Environmental Quality Standards - Public Water - Protection of Human Health

• ethoxylated Bisphenol A Dimethacrylate	41637-38-1	Not Listed
• Polyethylene glycol	25322-68-3	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Polymeric Initiator	<i>Proprietary</i>	Not Listed
• Polytetrafluoroethylene	9002-84-0	Not Listed

• Silica, amorphous fumed	112945-52-5	Not Listed
Japan - Fluorocarbons Recovery and Destruction Law		
• ethoxylated Bisphenol A Dimethacrylate	41637-38-1	Not Listed
• Polyethylene glycol	25322-68-3	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Polymeric Initiator	<i>Proprietary</i>	Not Listed
• Polytetrafluoroethylene	9002-84-0	Not Listed
• Silica, amorphous fumed	112945-52-5	Not Listed
Japan - Offensive Odor Regulations - Specified Offensive Odor Substances - Maximum Permissible Concentration (MPCs)		
• ethoxylated Bisphenol A Dimethacrylate	41637-38-1	Not Listed
• Polyethylene glycol	25322-68-3	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Polymeric Initiator	<i>Proprietary</i>	Not Listed
• Polytetrafluoroethylene	9002-84-0	Not Listed
• Silica, amorphous fumed	112945-52-5	Not Listed
Japan - Ozone Depleting Substances - Annex A Group I		
• ethoxylated Bisphenol A Dimethacrylate	41637-38-1	Not Listed
• Polyethylene glycol	25322-68-3	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Polymeric Initiator	<i>Proprietary</i>	Not Listed
• Polytetrafluoroethylene	9002-84-0	Not Listed
• Silica, amorphous fumed	112945-52-5	Not Listed
Japan - Ozone Depleting Substances - Annex A Group II		
• ethoxylated Bisphenol A Dimethacrylate	41637-38-1	Not Listed
• Polyethylene glycol	25322-68-3	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Polymeric Initiator	<i>Proprietary</i>	Not Listed
• Polytetrafluoroethylene	9002-84-0	Not Listed
• Silica, amorphous fumed	112945-52-5	Not Listed
Japan - Ozone Depleting Substances - Annex B Group I		
• ethoxylated Bisphenol A Dimethacrylate	41637-38-1	Not Listed
• Polyethylene glycol	25322-68-3	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Polymeric Initiator	<i>Proprietary</i>	Not Listed
• Polytetrafluoroethylene	9002-84-0	Not Listed
• Silica, amorphous fumed	112945-52-5	Not Listed
Japan - Ozone Depleting Substances - Annex B Group II		
• ethoxylated Bisphenol A Dimethacrylate	41637-38-1	Not Listed
• Polyethylene glycol	25322-68-3	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Polymeric Initiator	<i>Proprietary</i>	Not Listed
• Polytetrafluoroethylene	9002-84-0	Not Listed
• Silica, amorphous fumed	112945-52-5	Not Listed
Japan - Ozone Depleting Substances - Annex B Group III		
• ethoxylated Bisphenol A Dimethacrylate	41637-38-1	Not Listed
• Polyethylene glycol	25322-68-3	Not Listed
• Titanium dioxide	13463-67-7	Not Listed

• Polymeric Initiator	<i>Proprietary</i>	Not Listed
• Polytetrafluoroethylene	9002-84-0	Not Listed
• Silica, amorphous fumed	112945-52-5	Not Listed

Japan - Ozone Depleting Substances - Annex C Group I

• ethoxylated Bisphenol A Dimethacrylate	41637-38-1	Not Listed
• Polyethylene glycol	25322-68-3	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Polymeric Initiator	<i>Proprietary</i>	Not Listed
• Polytetrafluoroethylene	9002-84-0	Not Listed
• Silica, amorphous fumed	112945-52-5	Not Listed

Japan - Ozone Depleting Substances - Annex C Group II

• ethoxylated Bisphenol A Dimethacrylate	41637-38-1	Not Listed
• Polyethylene glycol	25322-68-3	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Polymeric Initiator	<i>Proprietary</i>	Not Listed
• Polytetrafluoroethylene	9002-84-0	Not Listed
• Silica, amorphous fumed	112945-52-5	Not Listed

Japan - Ozone Depleting Substances - Annex C Group III

• ethoxylated Bisphenol A Dimethacrylate	41637-38-1	Not Listed
• Polyethylene glycol	25322-68-3	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Polymeric Initiator	<i>Proprietary</i>	Not Listed
• Polytetrafluoroethylene	9002-84-0	Not Listed
• Silica, amorphous fumed	112945-52-5	Not Listed

Japan - Ozone Depleting Substances - Annex E Group I

• ethoxylated Bisphenol A Dimethacrylate	41637-38-1	Not Listed
• Polyethylene glycol	25322-68-3	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Polymeric Initiator	<i>Proprietary</i>	Not Listed
• Polytetrafluoroethylene	9002-84-0	Not Listed
• Silica, amorphous fumed	112945-52-5	Not Listed

Japan - Pollutant Release Transfer Register (PRTR) - Class 1 Substances

• ethoxylated Bisphenol A Dimethacrylate	41637-38-1	Not Listed
• Polyethylene glycol	25322-68-3	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Polymeric Initiator	<i>Proprietary</i>	440 >=1 %
• Polytetrafluoroethylene	9002-84-0	Not Listed
• Silica, amorphous fumed	112945-52-5	Not Listed

Japan - Pollutant Release Transfer Register (PRTR) - Class 2 Substances

• ethoxylated Bisphenol A Dimethacrylate	41637-38-1	Not Listed
• Polyethylene glycol	25322-68-3	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Polymeric Initiator	<i>Proprietary</i>	Not Listed
• Polytetrafluoroethylene	9002-84-0	Not Listed
• Silica, amorphous fumed	112945-52-5	Not Listed

Inventory - Japan - Industrial Safety and Health Law Substances (ISHL)

• ethoxylated Bisphenol A Dimethacrylate	41637-38-1	Not Listed
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• Polyethylene glycol	25322-68-3	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Polymeric Initiator	<i>Proprietary</i>	Not Listed
• Polytetrafluoroethylene	9002-84-0	Not Listed
• Silica, amorphous fumed	112945-52-5	Not Listed

Other

Japan - Drinking Water Quality Standards - Supplied Water Quality Standard Values

• ethoxylated Bisphenol A Dimethacrylate	41637-38-1	Not Listed
• Polyethylene glycol	25322-68-3	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Polymeric Initiator	<i>Proprietary</i>	Not Listed
• Polytetrafluoroethylene	9002-84-0	Not Listed
• Silica, amorphous fumed	112945-52-5	Not Listed

Japan - Drinking Water Quality Standards - Quality Control Guideline Values

• ethoxylated Bisphenol A Dimethacrylate	41637-38-1	Not Listed
• Polyethylene glycol	25322-68-3	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Polymeric Initiator	<i>Proprietary</i>	Not Listed
• Polytetrafluoroethylene	9002-84-0	Not Listed
• Silica, amorphous fumed	112945-52-5	Not Listed

Japan - Drinking Water Quality Standards - Quality Control Guideline Values - Pesticides

• ethoxylated Bisphenol A Dimethacrylate	41637-38-1	Not Listed
• Polyethylene glycol	25322-68-3	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Polymeric Initiator	<i>Proprietary</i>	Not Listed
• Polytetrafluoroethylene	9002-84-0	Not Listed
• Silica, amorphous fumed	112945-52-5	Not Listed

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

• ethoxylated Bisphenol A Dimethacrylate	41637-38-1	Not Listed
• Polyethylene glycol	25322-68-3	Readily biodegradable
• Titanium dioxide	13463-67-7	Non-biodegradable/Low bioconcentration
• Polymeric Initiator	<i>Proprietary</i>	Non-biodegradable/Low bioconcentration
• Polytetrafluoroethylene	9002-84-0	Not Listed
• Silica, amorphous fumed	112945-52-5	Not Listed

Japan - Fire Service Law - Hazardous Materials

• ethoxylated Bisphenol A Dimethacrylate	41637-38-1	Group 4 - Flammable liquids III (listed under 4th Class petroleum)
• Polyethylene glycol	25322-68-3	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Polymeric Initiator	<i>Proprietary</i>	Group 5 - Self-reactive materials I (Rank for mixture is II, listed under Organic peroxides)
• Polytetrafluoroethylene	9002-84-0	Not Listed
• Silica, amorphous fumed	112945-52-5	Not Listed

Japan - Harmful Substances in Household Products

• ethoxylated Bisphenol A Dimethacrylate	41637-38-1	Not Listed
• Polyethylene glycol	25322-68-3	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Polymeric Initiator	<i>Proprietary</i>	Not Listed
• Polytetrafluoroethylene	9002-84-0	Not Listed
• Silica, amorphous fumed	112945-52-5	Not Listed
Japan - ISHL Prevention of Tetraalkyl Lead Poisoning		
• ethoxylated Bisphenol A Dimethacrylate	41637-38-1	Not Listed
• Polyethylene glycol	25322-68-3	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Polymeric Initiator	<i>Proprietary</i>	Not Listed
• Polytetrafluoroethylene	9002-84-0	Not Listed
• Silica, amorphous fumed	112945-52-5	Not Listed
Japan - Japanese Pharmacopoeia Listing - Synthetics		
• ethoxylated Bisphenol A Dimethacrylate	41637-38-1	Not Listed
• Polyethylene glycol	25322-68-3	(listed under Macrogol 400, 1500, 4000, 6000, 20000)
• Titanium dioxide	13463-67-7	Not Listed
• Polymeric Initiator	<i>Proprietary</i>	Not Listed
• Polytetrafluoroethylene	9002-84-0	Not Listed
• Silica, amorphous fumed	112945-52-5	Not Listed
Japan - Japanese Pharmacopoeia Listing - Naturally Occurring Substances		
• ethoxylated Bisphenol A Dimethacrylate	41637-38-1	Not Listed
• Polyethylene glycol	25322-68-3	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Polymeric Initiator	<i>Proprietary</i>	Not Listed
• Polytetrafluoroethylene	9002-84-0	Not Listed
• Silica, amorphous fumed	112945-52-5	Not Listed
Japan - Chemical Substance Control Law (CSCL) - Monitoring Chemical Substances		
• ethoxylated Bisphenol A Dimethacrylate	41637-38-1	Not Listed
• Polyethylene glycol	25322-68-3	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Polymeric Initiator	<i>Proprietary</i>	Not Listed
• Polytetrafluoroethylene	9002-84-0	Not Listed
• Silica, amorphous fumed	112945-52-5	Not Listed
Japan - Poisonous and Deleterious Substances		
• ethoxylated Bisphenol A Dimethacrylate	41637-38-1	Not Listed
• Polyethylene glycol	25322-68-3	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Polymeric Initiator	<i>Proprietary</i>	Not Listed
• Polytetrafluoroethylene	9002-84-0	Not Listed
• Silica, amorphous fumed	112945-52-5	Not Listed
Japan - Chemical Substance Control Law (CSCL) - Specified Chemical Substances		
• ethoxylated Bisphenol A Dimethacrylate	41637-38-1	Not Listed
• Polyethylene glycol	25322-68-3	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Polymeric Initiator	<i>Proprietary</i>	Not Listed
• Polytetrafluoroethylene	9002-84-0	Not Listed

• Silica, amorphous fumed	112945-52-5	Not Listed
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Japan - Poisonous and Deleterious Substances - Substances Not Considered Deleterious

• ethoxylated Bisphenol A Dimethacrylate	41637-38-1	Not Listed
• Polyethylene glycol	25322-68-3	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Polymeric Initiator	<i>Proprietary</i>	Not Listed
• Polytetrafluoroethylene	9002-84-0	Not Listed
• Silica, amorphous fumed	112945-52-5	Not Listed

Japan - Poisonous and Deleterious Substances - Substances Not Considered Poisonous

• ethoxylated Bisphenol A Dimethacrylate	41637-38-1	Not Listed
• Polyethylene glycol	25322-68-3	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Polymeric Initiator	<i>Proprietary</i>	Not Listed
• Polytetrafluoroethylene	9002-84-0	Not Listed
• Silica, amorphous fumed	112945-52-5	Not Listed

Japan - ISHL Working Environment Evaluation Standards - Administrative Control Levels

• ethoxylated Bisphenol A Dimethacrylate	41637-38-1	Not Listed
• Polyethylene glycol	25322-68-3	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Polymeric Initiator	<i>Proprietary</i>	Not Listed
• Polytetrafluoroethylene	9002-84-0	Not Listed
• Silica, amorphous fumed	112945-52-5	Not Listed

Korea**Labor****Korea - ISHA - Harmful Substances Prohibited for Manufacturing, Importing, Transferring, or Supplying**

• ethoxylated Bisphenol A Dimethacrylate	41637-38-1	Not Listed
• Polyethylene glycol	25322-68-3	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Polymeric Initiator	<i>Proprietary</i>	Not Listed
• Polytetrafluoroethylene	9002-84-0	Not Listed
• Silica, amorphous fumed	112945-52-5	Not Listed

Korea - ISHA - Harmful Substances Requiring Permission

• ethoxylated Bisphenol A Dimethacrylate	41637-38-1	Not Listed
• Polyethylene glycol	25322-68-3	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Polymeric Initiator	<i>Proprietary</i>	Not Listed
• Polytetrafluoroethylene	9002-84-0	Not Listed
• Silica, amorphous fumed	112945-52-5	Not Listed

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

• ethoxylated Bisphenol A Dimethacrylate	41637-38-1	(13-08-071); 13-05-678 (13-08-071); 13-06-005 (13-08-071); 13-06-074 (13-08-071); 13-06-153 (13-08-071); 13-06-197 (13-08-071); 13-08-071 (13-08-071)
• Polyethylene glycol	25322-68-3	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Polymeric Initiator	<i>Proprietary</i>	Not Listed

• Polytetrafluoroethylene	9002-84-0	Not Listed
• Silica, amorphous fumed	112945-52-5	Not Listed

Environment**Korea - MOE - Toxic Chemicals Control Act (TCCA) - Observational Chemicals**

• ethoxylated Bisphenol A Dimethacrylate	41637-38-1	Not Listed
• Polyethylene glycol	25322-68-3	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Polymeric Initiator	<i>Proprietary</i>	Not Listed
• Polytetrafluoroethylene	9002-84-0	Not Listed
• Silica, amorphous fumed	112945-52-5	Not Listed

Other**Korea - MOE - Toxic Chemicals Control Act (TCCA) - Prohibited Chemicals**

• ethoxylated Bisphenol A Dimethacrylate	41637-38-1	Not Listed
• Polyethylene glycol	25322-68-3	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Polymeric Initiator	<i>Proprietary</i>	Not Listed
• Polytetrafluoroethylene	9002-84-0	Not Listed
• Silica, amorphous fumed	112945-52-5	Not Listed

Korea - MOE - Toxic Chemicals Control Act (TCCA) - Restricted Chemicals

• ethoxylated Bisphenol A Dimethacrylate	41637-38-1	Not Listed
• Polyethylene glycol	25322-68-3	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Polymeric Initiator	<i>Proprietary</i>	Not Listed
• Polytetrafluoroethylene	9002-84-0	Not Listed
• Silica, amorphous fumed	112945-52-5	Not Listed

Korea - MOE - Toxic Chemicals Control Act (TCCA) - Toxic Chemicals

• ethoxylated Bisphenol A Dimethacrylate	41637-38-1	Not Listed
• Polyethylene glycol	25322-68-3	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Polymeric Initiator	<i>Proprietary</i>	Not Listed
• Polytetrafluoroethylene	9002-84-0	Not Listed
• Silica, amorphous fumed	112945-52-5	Not Listed

United States**Labor****U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals**

• ethoxylated Bisphenol A Dimethacrylate	41637-38-1	Not Listed
• Polyethylene glycol	25322-68-3	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Polymeric Initiator	<i>Proprietary</i>	5000 lb TQ
• Polytetrafluoroethylene	9002-84-0	Not Listed
• Silica, amorphous fumed	112945-52-5	Not Listed

U.S. - OSHA - Specifically Regulated Chemicals

• ethoxylated Bisphenol A Dimethacrylate	41637-38-1	Not Listed
• Polyethylene glycol	25322-68-3	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Polymeric Initiator	<i>Proprietary</i>	Not Listed
• Polytetrafluoroethylene	9002-84-0	Not Listed

• Silica, amorphous fumed	112945-52-5	Not Listed
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Environment**U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants**

• ethoxylated Bisphenol A Dimethacrylate	41637-38-1	Not Listed
• Polyethylene glycol	25322-68-3	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Polymeric Initiator	<i>Proprietary</i>	Not Listed
• Polytetrafluoroethylene	9002-84-0	Not Listed
• Silica, amorphous fumed	112945-52-5	Not Listed

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

• ethoxylated Bisphenol A Dimethacrylate	41637-38-1	Not Listed
• Polyethylene glycol	25322-68-3	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Polymeric Initiator	<i>Proprietary</i>	10 lb final RQ; 4.54 kg final RQ
• Polytetrafluoroethylene	9002-84-0	Not Listed
• Silica, amorphous fumed	112945-52-5	Not Listed

U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities

• ethoxylated Bisphenol A Dimethacrylate	41637-38-1	Not Listed
• Polyethylene glycol	25322-68-3	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Polymeric Initiator	<i>Proprietary</i>	Not Listed
• Polytetrafluoroethylene	9002-84-0	Not Listed
• Silica, amorphous fumed	112945-52-5	Not Listed

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs

• ethoxylated Bisphenol A Dimethacrylate	41637-38-1	Not Listed
• Polyethylene glycol	25322-68-3	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Polymeric Initiator	<i>Proprietary</i>	Not Listed
• Polytetrafluoroethylene	9002-84-0	Not Listed
• Silica, amorphous fumed	112945-52-5	Not Listed

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs

• ethoxylated Bisphenol A Dimethacrylate	41637-38-1	Not Listed
• Polyethylene glycol	25322-68-3	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Polymeric Initiator	<i>Proprietary</i>	Not Listed
• Polytetrafluoroethylene	9002-84-0	Not Listed
• Silica, amorphous fumed	112945-52-5	Not Listed

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

• ethoxylated Bisphenol A Dimethacrylate	41637-38-1	Not Listed
• Polyethylene glycol	25322-68-3	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Polymeric Initiator	<i>Proprietary</i>	1.0 % de minimis concentration
• Polytetrafluoroethylene	9002-84-0	Not Listed
• Silica, amorphous fumed	112945-52-5	Not Listed

U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing

• ethoxylated Bisphenol A Dimethacrylate	41637-38-1	Not Listed
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• Polyethylene glycol	25322-68-3	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Polymeric Initiator	<i>Proprietary</i>	Not Listed
• Polytetrafluoroethylene	9002-84-0	Not Listed
• Silica, amorphous fumed	112945-52-5	Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - U Series Wastes - Acutely Toxic Wastes & Other Hazardous Characteristics

• ethoxylated Bisphenol A Dimethacrylate	41637-38-1	Not Listed
• Polyethylene glycol	25322-68-3	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Polymeric Initiator	<i>Proprietary</i>	waste number U096 (Reactive waste)
• Polytetrafluoroethylene	9002-84-0	Not Listed
• Silica, amorphous fumed	112945-52-5	Not Listed

United States - California

Environment

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

• ethoxylated Bisphenol A Dimethacrylate	41637-38-1	Not Listed
• Polyethylene glycol	25322-68-3	Not Listed
• Titanium dioxide	13463-67-7	carcinogen, initial date 9/2/11 (airborne, unbound particles of respirable size)
• Polymeric Initiator	<i>Proprietary</i>	Not Listed
• Polytetrafluoroethylene	9002-84-0	Not Listed
• Silica, amorphous fumed	112945-52-5	Not Listed

U.S. - California - Proposition 65 - Developmental Toxicity

• ethoxylated Bisphenol A Dimethacrylate	41637-38-1	Not Listed
• Polyethylene glycol	25322-68-3	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Polymeric Initiator	<i>Proprietary</i>	Not Listed
• Polytetrafluoroethylene	9002-84-0	Not Listed
• Silica, amorphous fumed	112945-52-5	Not Listed

U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)

• ethoxylated Bisphenol A Dimethacrylate	41637-38-1	Not Listed
• Polyethylene glycol	25322-68-3	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Polymeric Initiator	<i>Proprietary</i>	Not Listed
• Polytetrafluoroethylene	9002-84-0	Not Listed
• Silica, amorphous fumed	112945-52-5	Not Listed

U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)

• ethoxylated Bisphenol A Dimethacrylate	41637-38-1	Not Listed
• Polyethylene glycol	25322-68-3	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Polymeric Initiator	<i>Proprietary</i>	Not Listed
• Polytetrafluoroethylene	9002-84-0	Not Listed
• Silica, amorphous fumed	112945-52-5	Not Listed

U.S. - California - Proposition 65 - Reproductive Toxicity - Female

• ethoxylated Bisphenol A Dimethacrylate	41637-38-1	Not Listed
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• Polyethylene glycol	25322-68-3	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Polymeric Initiator	<i>Proprietary</i>	Not Listed
• Polytetrafluoroethylene	9002-84-0	Not Listed
• Silica, amorphous fumed	112945-52-5	Not Listed

U.S. - California - Proposition 65 - Reproductive Toxicity - Male

• ethoxylated Bisphenol A Dimethacrylate	41637-38-1	Not Listed
• Polyethylene glycol	25322-68-3	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Polymeric Initiator	<i>Proprietary</i>	Not Listed
• Polytetrafluoroethylene	9002-84-0	Not Listed
• Silica, amorphous fumed	112945-52-5	Not Listed

United States - Pennsylvania**Labor****U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List**

• ethoxylated Bisphenol A Dimethacrylate	41637-38-1	Not Listed
• Polyethylene glycol	25322-68-3	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Polymeric Initiator	<i>Proprietary</i>	Not Listed
• Polytetrafluoroethylene	9002-84-0	Not Listed
• Silica, amorphous fumed	112945-52-5	Not Listed

U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances

• ethoxylated Bisphenol A Dimethacrylate	41637-38-1	Not Listed
• Polyethylene glycol	25322-68-3	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Polymeric Initiator	<i>Proprietary</i>	Not Listed
• Polytetrafluoroethylene	9002-84-0	Not Listed
• Silica, amorphous fumed	112945-52-5	Not Listed

15.2 Chemical Safety Assessment

- No Chemical Safety Assessment has been carried out.

15.3 Other Information

- WARNING: This product contains a chemical known to the State of California to cause cancer.

Section 16 - Other Information**Relevant Phrases (code & full text)**

- H242 - Heating may cause a fire
- H312 - Harmful in contact with skin
- H314 - Causes severe skin burns and eye damage.
- H331 - Toxic if inhaled
- H373 - May cause damage to organs through prolonged or repeated exposure.
- H411 - Toxic to aquatic life with long lasting effects
- R7 - May cause fire.
- R21/22 - Harmful in contact with skin and if swallowed.
- R22 - Harmful if swallowed.
- R23 - Toxic by inhalation.
- R48/20 - Harmful: danger of serious damage to health by prolonged exposure through inhalation.

R48/20/22 - Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.

R51 - Toxic to aquatic organisms.

R53 - May cause long-term adverse effects in the aquatic environment.

Last Revision Date

- 14/February/2014

Preparation Date

- 13/July/2012

Disclaimer/Statement of Liability

- The information herein is given in good faith but no warranty, expressed or implied, is made.

Key to abbreviations

NDA = No Data Available
