

UV/LED Options Gels

SDS Revision Date (dd/mm/yyyy): 09/07/2013

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SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

SECTION 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAK

Product identifier : **UV/LED Options Gels**
Product Code(s) : Options Colours; Options Arts; Options Lines; Options Brights; Options Pastels; Options Sparkles & Aurora

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

: Cosmetic nail gel.
Use pattern: Consumers.

Details of the supplier of the safety data sheet:

Haigh Industries Inc.

#5 – 8118 North Fraser Way
Burnaby, British Columbia, Canada
V5J 0E5
Email: hind@telus.net

Telephone : 001-604-278-5851

Emergency Telephone Number : 001-352-323-3500 (INFOTRAC - Contract # 103390)

SECTION 2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Viscous liquid of various colors. Acrylic odour.

Most important hazards: The preparation is classified as dangerous in accordance with Directive 1999/45/EC.

All Options products, with the exception of Options Lines - Opti-Bond and Base 'n Gloss, have the following classification according to Directive 1999/45/EC:

Xi - Irritant
R36/37/38 - Irritating to eyes, respiratory system and skin.
R43 - May cause sensitization by skin contact.

Options Lines - Opti-Bond and Base 'n Gloss have the following classification according to Directive 1999/45/EC:

Xi - Irritant
R36/37/38 - Irritating to eyes, respiratory system and skin.
R43 - May cause sensitization by skin contact.
R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Label elements



Irritant

This product is subject to the EEC Directive for Cosmetics, 76/768/EEC, and its National implementations in the European Union. Refer to these regulations for Ingredient disclosure requirements on the label.

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All Options products, with the exception of Options Lines - Opti-Bond and Base 'n Gloss, will require the following R-Phrases to appear on the labels according to Directive 1999/45/EC:

R36/37/38 - Irritating to eyes, respiratory system and skin.

R43 - May cause sensitization by skin contact.

Options Lines - Opti-Bond and Base 'n Gloss will require the following R-Phrases to appear on the labels according to Directive 1999/45/EC

R36/37/38 - Irritating to eyes, respiratory system and skin.

R43 - May cause sensitization by skin contact.

R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S 2 - Keep out of the reach of children.

S24/25 - Avoid contact with skin and eyes.

S37 - Wear suitable gloves.

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S46 - If swallowed, seek medical advice immediately and show this container or label.

S35 - This material and its container must be disposed of in a safe way.

Other hazards

Other hazards which do not result in classification:

May polymerize when heated or on contact with incompatible materials. Freezing may cause depletion of inhibitor increasing the risk of polymerization. Burning produces obnoxious and toxic fumes. Prolonged or repeated overexposure could cause adverse liver effects.

Environmental precautions:

Avoid release to the environment.

Options Lines - Opti-Bond and Base 'n Gloss, have the following environmental classification:

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

See ECOLOGICAL INFORMATION, Section 12. The product should not be allowed to enter drains, water courses or the soil.

PBT assessment:

This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

Not applicable

Mixtures

Chemical nature of the preparation: Mixture - Acrylates; Ketones; Pigments.

The following substances shall be indicated according to legislation:

<u>Chemical name</u>	<u>CAS #</u>	<u>EC No.</u>	<u>Concentration (%)</u>	<u>EU Classification</u>
All Options products contain the following chemicals:				
Di-HEMA Trimethylhexyl dicarbamate	Proprietary	Polymer	50.0 - 70.0	Xi - Irritant; R36/37/38 - R43 (self classified)
2-Hydroxyethyl methacrylate (HEMA)	868-77-9	212-782-2	5.0 - 17.0	Xi - Irritant; R36/38 - R43
Hydroxypropyl methacrylate (HPMA)	27813-02-1	248-666-3	5.0 - 17.0	Xi - Irritant; R36 - R43 (self classified)
Hydroxycyclohexyl phenyl ketone	947-19-3	213-426-9	0.5 - 2.0	Xi - Irritant; R36 (self classified)

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All Options products, with the exception of Options Colours - Classic Red/Mulberry/Paprika/Redwood/Rich Espresso, Options Lines - Base 'n Gloss/Clear 100%/Opti-Bond, Options Aurora - Apricot/Blue/Emerald/Gold/Maroon/Pewter/Pink/Purple/Silver & Options Arts - Black/Clear Red/Purple/Red, contain the following chemical:				
titanium dioxide	13463-67-7	236-675-5	< 3.0	None assigned. Substances for which there are Community workplace exposure limits.
Options Lines - Sculpturing White, Opti-Bond, Clear 100%, Base 'n Gloss and Brite White also contain the following chemical:				
Trimethylbenzoyl diphenylphosphine oxide	75980-60-8	278-355-8	0.5 - 2.0	R52-53 Xn - Harmful Repr. Cat.3;R62 (self classified)
Options Colours - Black Beauty; Options Aurora - All Colours; and Options Sparkle - Silver Twinkle/Golden Twilight/Jazzberry/Midnight Dust/Ravishing Red; Sunlit Snow/Caribbean Teal/Tangelo also contain the following chemical:				
Polyethylene terephthalate	25038-59-9	Polymer	< 10.0	None assigned. Substances for which there are Community workplace exposure limits.
Options Colours - Cafe Couteur/Cashmere Red/Chai/Champagne/Chiffon/Coral Burst/Cranberry Crush/Desert Rose/Dream Pink/Enchanted Green/Exotic Orchid/Flamingo/Frappe Mocha/Green Flash/Iced Violet/Irish Kiss/Mauvella/Mystic Mauve/Paprika/Peachy Keen/Pink Glow/Pink Pearl/Purple Lustre/Purple Royale/Raspberry Glace/Red Muse/Satin Pearl/Sienna Sunrise/Simply Pink/Soft Coral/Tangy Orange/Tawny Beige/Tropical Sand/Tuscan Sunset/Amethyst Smoke/Blue Blast/Blush-A-Bit/Brazilian Blue/Breeze/Bronze/Mist; Options Sparkle - Silver Twinkle/Bronze/Gold/Golden Twilight/Silver and Options Arts - Creamy Purple also contain the following chemical:				
Mica	12001-26-2	This chemical may be grouped under the name 'Naturally occurring substances' with the following EINECs number: 310-127-6	< 3.0	None assigned. Substances for which there are Community workplace exposure limits.
Options Colours - Cafe Couteur/Champagne/Chiffon/Cranberry Crush/Iced Violet/Merlot/Peachy Keen/Pearlescence/Sienna Sunrise/Tuscan Sunset/Breeze; and Options Sparkle - Blue/Bronze/Clear/Coral/Gold/Golden Twilight/Jazzberry/Lilac/Mauve/Midnight Dust/Pink/Raspberry/Ravishing Red/Silver/Sunlit Snow/Caribbean Teal/Tangelo/Stardust also contain the following chemical:				
Silica	7631-86-9	231-545-4	< 1.0	None assigned. Substances for which there are Community workplace exposure limits.
Options Colours - Champagne/Pearlescence/Sienna Sunrise/Tuscan Sunset/Breeze and Options Sparkles - Golden Twilight/Sunlit Snow/Stardust also contain the following chemical:				
Tin Oxide	18282-10-5	242-159-0	< 0.75	None assigned. Substances for which there are Community workplace exposure limits.
Options Colours - Irish Kiss/Breeze also contain the following chemical:				
Chromium oxide green	1308-38-9	215-160-9	< 0.75	None assigned. Substances for which there are Community workplace exposure limits.

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Options Colours - Cafe Couteur/Chai/Champagne/Chiffon/Cranberry Crush/Desert Rose/Dream Pink/Fire/Frappe Mocha/Georgia Peach/Hazy Khaki/Latte/Misty Rose/Paprika/Peachy Keen/Pink Blush/Sienna Sunrise/Smokey Taupe/Smouldering Mauve/Tawny Beige/Tropical Sand/Tuscan Sunset/Windswept Tan/Amethyst Smoke/Blush-A-Bit/Bronze/Mist; and Options Sparkle - Bronze/Gold/Golden Twilight/Silver also contain the following chemical:				
Iron oxide	1309-37-1	215-168-2	< 1.5	None assigned. Substances for which there are Community workplace exposure limits.
Options Lines - Base 'n Gloss also contains the following chemical:				
Isopropylidenediphenyl bisoxyhydroxypropyl methacrylate (Bis-GMA)	1565-94-2	216-367-7	1.0 - 5.0	Xi - Irritant; R36/38 - R43 (self classified)
Options Lines - Opti-Bond and Base 'n Gloss also contain the following chemical:				
iso-Bornyl acrylate	5888-33-5	227-561-6	5.0 - 10.0	Xi - Irritant; R36/37/38 - R43 N - Dangerous for the environment; R51/53 (self classified)

Note: Refer to Section 16 for additional ingredients present in these products.

For the full text of the R phrases mentioned in this section, see Section 2 or 16.

SECTION 4. FIRST-AID MEASURES

Description of first aid measures

- Ingestion* : Do NOT induce vomiting. If swallowed, seek medical advice immediately and show this container or label. Never give anything by mouth to an unconscious person.
- Inhalation* : If breathed in, move person into fresh air. If breathing is irregular or stopped, administer artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. When symptoms persist or in all cases of doubt seek medical advice.
- Skin contact* : Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Obtain medical advice.
- Eye contact* : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Most important symptoms and effects, both acute and delayed

- : Irritating to eyes, respiratory system and skin.
May cause sensitization by skin contact.
Prolonged or repeated overexposure could cause adverse liver effects.

Indication of any immediate medical attention and special treatment needed

- : Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

- Suitable extinguishing media* : Carbon dioxide (CO₂); Dry chemical; Alcohol-resistant foam; water fog.
- Unsuitable extinguishing media* : Do not use a solid water stream as it may scatter and spread fire.

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Special hazards arising from the substance or mixture

- : May polymerize when heated or on contact with incompatible materials. Fire or intense heat may cause violent rupture of packages. Freezing may cause depletion of inhibitor increasing the risk of polymerization. The pressure in sealed containers can increase under the influence of heat. Burning produces obnoxious and toxic fumes. In the event of fire the following can be released: formaldehyde; Carbon oxides; Nitrogen oxides (NOx); Metal oxides; Methacrylic acid; Methacrolein; Propene; Other unidentified organic compounds.

Advice for firefighters

Protective equipment for fire-fighters

- : Wear self-contained breathing apparatus and protective suit. Fight fire with normal precautions from a reasonable distance.

Special fire-fighting procedures

- : Move containers from fire area if safe to do so. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses. Dike for water control.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

- : Wear suitable protective equipment. Keep people away from and upwind of spill/leak.

Environmental precautions

- : Do not allow material to contaminate ground water system. If necessary, dike well ahead of the spill to prevent runoff into drains, sewers, or any natural waterway or drinking supply.

Methods and material for containment and cleaning up

- : Ventilate the area. Prevent further leakage or spillage if safe to do so. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Clean with detergents. Avoid solvents. Do not flush into surface water or sanitary sewer system. Pick up and transfer to properly labelled containers. Contaminated absorbent material may pose the same hazards as the spilled product. Contact the proper local authorities.

Reference to other sections

- : Refer to protective measures listed in sections 7 and 8. Refer to Section 13 for disposal of contaminated material.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

- : Persons with recurrent skin eczema or sensitization problems should be excluded from working with this product. Once a person is sensitized, no further exposure to the material that caused the sensitization should be permitted. Wear suitable protective equipment. Use only in well-ventilated areas. Avoid breathing vapours. Avoid contact with skin, eyes and clothing. Avoid strong oxidizers. Keep away from incompatibles. Keep away from heat and flame. Keep containers closed when not in use. Empty containers retain residue (liquid and/or vapour) and can be dangerous. Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities

- : Store in cool/well-ventilated place. Inspect periodically for damage or leaks. Protect from sunlight. Store away from heat. Store in a place accessible by authorized persons only. Do not freeze. Recommended storage temperature: 1 - 30°C.

Specific end use(s)

- : Cosmetics

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SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters

<u>Exposure Limits:</u>			
<u>Chemical Name</u>	<u>Exposure Limits</u>	<u>Type</u>	<u>Notes</u>
Trimethylbenzoyl diphenylphosphine oxide	None known.	European Union (OEL)	None.
2-Hydroxyethyl methacrylate (HEMA)	20 mg/m ³ (TWA)	Lithuania (OEL)	None.
	2 ppm (11 mg/m ³) (TWA)	Hungary (OEL)	None.
	4 ppm (16.5 mg/m ³) (STEL)		
Di-HEMA Trimethylhexyl dicarbamate	None known.	European Union (OEL)	None.
Hydroxypropyl methacrylate (HPMA)	None known.	European Union (OEL)	None.
Hydroxycyclohexyl phenyl ketone	None known.	European Union (OEL)	None.
Titanium dioxide	10 mg/m ³ (TWA)	France (OEL)	None.
	10 mg/m ³ (inhalable); 5 mg/m ³ (respirable dust) (TWA)	Greece (OEL)	None.
	10 mg/m ³ (inhalable) (TWA)	Poland (OEL)	None.
	10 mg/m ³ (TWA)	Spain (OEL)	None.
	10 mg/m ³ (inhalable); 4 mg/m ³ (respirable dust) (TWA)	The United Kingdom (WELs)	None.
	30 mg/m ³ (inhalable); 12 mg/m ³ (respirable dust) (STEL)		
Polyethylene terephthalate	5 mg/m ³ (TWA)	Lithuania (OEL)	None.
	5 mg/m ³ (TWA)	Latvia (OEL)	None.
Mica	10 mg/m ³ (inhalable) (TWA)	Austria (OEL)	None.
	3 mg/m ³ (respirable dust) (TWA)	Portugal (OEL)	None.
	3 mg/m ³ (respirable dust) (TWA)	Spain (OEL)	None.
	10 mg/m ³ (total inhalable); 0.8 mg/m ³ (respirable dust) (TWA)	The United Kingdom (WELs)	None.
	30 mg/m ³ (total inhalable); 2.4 mg/m ³ (respirable dust) (STEL)		
Iron oxide	5 mg/m ³ (fumes) (TWA)	France (OEL)	(as Fe)
	10 mg/m ³ (TWA)	Greece (OEL)	(as Fe)
	10 mg/m ³ (STEL)		
	5 mg/m ³ (Fumes) (TWA)	Poland (OEL)	(as Fe)
	10 mg/m ³ (Fumes) (STEL)		
	5 mg/m ³ (dust and fume) (TWA)	Spain (OEL)	(as Fe)
iso-Bornyl acrylate	10 mg/m ³ (total inhalable); 4 mg/m ³ (respirable dust) (TWA)	The United Kingdom (The United Kingdom (WELs))	(as Rouge)
	30 mg/m ³ (total inhalable); 12 mg/m ³ (respirable dust) (STEL)		
	None known.	European Union (OEL)	None.

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Silica	4 mg/m ³ (inhalable) (TWA)	Germany (OEL)	None.
	4 mg/m ³ (inhalable); 0.3 mg/m ³ (respirable dust) (TWA)	Austria (OEL)	None.
	6 mg/m ³ (inhalable); 2.4 mg/m ³ (respirable dust) (TWA) 18 mg/m ³ (inhalable); 7.2 mg/m ³ (respirable dust) (STEL)	The United Kingdom (WELs)	None.
Chromium oxide green	0.02 mg/m ³ (TWA) 0.06 mg/m ³ (STEL)	Estonia (OEL)	(as Cr)
	1 mg/m ³ (TWA)	Latvia (OEL)	(as Cr)
Tin Oxide	2 mg/m ³ (as Sn) (TWA)	Belgium (OEL)	Skin
	2 mg/m ³ (TWA)	Finland (OEL)	(as Sn)
	2 mg/m ³ (TWA)	Spain (OEL)	(as Sn)
Isopropylidenediphenyl bisoxyhydroxypropyl methacrylate (Bis-GMA)	None known.	European Union (OEL)	None.

Exposure controls

Ventilation and engineering measures

- : Use only in well-ventilated areas. Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. In case of insufficient ventilation wear suitable respiratory equipment.

Respiratory protection

- : In the case of vapour formation use a respirator with an approved filter. The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used.

Skin protection

- : Wear protective gloves. The suitability for a specific workplace should be discussed with the producers of the protective gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/689/EEC and the standard EN 374 derived from it.

Eye / face protection

- : If splashing is anticipated, splash goggles and a faceshield are recommended. Do not wear contact lenses. See also EN 166.

Other protective equipment

- : Wear sufficient clothing to prevent skin contact. Ensure that eyewash stations and safety showers are close to the workstation location.

General hygiene considerations

- : Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

- Appearance** : Viscous liquid of various colors
- Odour** : Acrylic odour.
- Odour threshold** : No information available.
- pH** : Not applicable.
- Flash point** : > 101°C
- Flashpoint (Method)** : Pensky Martens Closed Cup
- Lower flammable limit (% by vol.)** : No information available.
- Upper flammable limit (% by vol.)** : No information available.
- Flammability (solid, gas)** : Not applicable.
- Auto-ignition temperature** : No information available.
- Decomposition temperature** : No information available.

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Oxidizing properties : None known.
Explosive properties : Not explosive. Not expected to be sensitive to mechanical impact or static discharge.
Initial boiling point and boiling range

: No information available.
Melting/Freezing point : No information available.
Relative density : 1.10 - 1.26 @ 25°C
Solubility in water : negligible
Other solubility(ies) : No information available.
Vapour pressure : No information available.
Vapour density : No information available.

Partition coefficient: n-octanol/water
: No information available.
Viscosity : No information available.
Evaporation rate (BuAe = 1) : No information available.

Other Information

Volatiles (% by weight) : No information available.
Volatile organic Compounds (VOC's)
: No information available.

Other physical/chemical comments
: No additional information.

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Product becomes reactive if inhibitor becomes depleted. Freezing may cause depletion of inhibitor increasing the risk of polymerization.
Chemical stability : Stable under normal conditions.
Possibility of hazardous reactions
: May polymerize when heated or on contact with incompatible materials.
Conditions to avoid : Direct sources of heat. Keep away from direct sunlight. Do not freeze. Do not use in areas without adequate ventilation.
Incompatible materials : Oxidizing materials; Amines; Polymerization initiators; Inert gases; Copper; Brass; Mild steel; Ultraviolet light (e.g. sunlight).
Hazardous decomposition products
: Burning produces obnoxious and toxic fumes. In the event of fire the following can be released: formaldehyde; Carbon oxides; Nitrogen oxides (NOx) Metal oxides; Methacrylic acid; Methacrolein; Propene; Other unidentified organic compounds .

SECTION 11. TOXICOLOGICAL INFORMATION

Information on Toxicological effects:

Acute toxicity : According to the classification criteria of the European Union, this product is not considered as being an acutely toxic chemical.
Irritation : The product is classified as dangerous in accordance with Directive 1999/45/EC.
Classification:
Xi - Irritant. Irritating to eyes, respiratory system and skin.
Corrosivity : According to the classification criteria of the European Union, this product is not considered as being a corrosive material.

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- Sensitisation** : According to the classification criteria of the European Union, this product is not considered as being an allergic respiratory sensitiser.
 The product is classified as dangerous in accordance with Directive 1999/45/EC.
 Classification:
 Xi - Irritant. May cause sensitization by skin contact. May cause severe skin sensitization with allergic contact dermatitis symptoms such as swelling, rash and eczema.

- Mutagenicity** : Contains no ingredient listed as a mutagen.
- Carcinogenicity** : Contains no ingredient listed as a carcinogen
- Reproductive toxicity** : Not classifiable as a reproductive toxin.
 Contains: Trimethylbenzoyl diphenylphosphine oxide. Trimethylbenzoyl diphenylphosphine oxide may present a possible risk of impaired fertility. However, based on the conventional method of classification, the concentration of this chemical is too low to cause the preparation to be classifiable as a reproductive toxin.

- Repeated dose toxicity** : According to the classification criteria of the European Union, this product is not expected to cause target organ toxicity through repeated doses.

- Routes of exposure** : Eye contact; Skin contact; Skin Absorption; Inhalation; Ingestion.

- Effects of acute exposure** : Inhalation: Irritating to respiratory system. Inhalation of fumes may result in metal fume fever, a flu-like illness. Symptoms of metal fume fever may include fever, fatigue, vomiting, muscle aches and shortness of breath.

 Skin contact: Irritating to skin. Can be absorbed through skin.

 Eye contact: Irritating to eyes. May cause burning sensation, redness and tearing (watering).

 Ingestion: May cause nausea, abdominal spasms and irritation of the mucous membranes.

- Potential Chronic Health Effects** : Prolonged or repeated overexposure could cause adverse liver effects.

- Other important hazards** : May aggravate pre-existing skin, eye and respiratory problems.

- Toxicological data** : There is no available data for the product itself, only for the ingredients. See below for individual ingredient acute toxicity data.

Chemical name	LC ₅₀ (4hr) inh, rat	LD ₅₀	
		(Oral, rat)	(Rabbit, dermal)
Options Colours - Irish Kiss/Breeze also contain the following chemical:			
Chromium oxide green	> 5.41 mg/L	> 15,000 mg/kg	No information available.
Options Lines - Base 'n Gloss also contains the following chemical:			
Isopropylidenediphenyl bisoxyhydroxypropyl methacrylate (Bis-GMA)	No information available.	No information available.	No information available.
Options Lines - Opti-Bond and Base 'n Gloss also contain the following chemical:			
iso-Bornyl acrylate	No information available.	4890 mg/kg	> 5000 mg/kg
Options Lines - Sculpturing White, Opti-Bond, Clear 100%, Base 'n Gloss and Brite White also contain the following chemical:			
Trimethylbenzoyl diphenylphosphine oxide	No information available.	> 5000 mg/kg	No information available.

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Options Colours - Champagne/Pearlescence/Sienna Sunrise/Tuscan Sunset/Breeze and Options Sparkles - Golden Twilight/Sunlit Snow/Stardust also contain the following chemical:			
Tin Oxide	No information available.	> 20,000 mg/kg	No information available.
All Options products contain the following chemicals:			
Di-HEMA Trimethylhexyl dicarbamate	No information available.	> 5000 mg/kg	No information available.
2-Hydroxyethyl methacrylate (HEMA)	No information available.	> 4000 mg/kg	> 3000 mg/kg
Hydroxypropyl methacrylate (HPMA)	No information available.	11200 mg/kg	> 3000 mg/kg
Hydroxycyclohexyl phenyl ketone	No information available.	2895 mg/kg	No information available.
All Options products, with the exception of Options Colours - Classic Red/Mulberry/Paprika/Redwood/Rich Espresso, Options Lines - Base 'n Gloss/Clear 100%/Opti-Bond, Options Aurora - Apricot/Blue/Emerald/Gold/Maroon/Pewter/Pink/Purple/Silver & Options Arts - Black/Clear Red/Purple/Red, contain the following chemical:			
titanium dioxide	> 6820 mg/m ³	> 25,000 mg/kg	> 10,000 mg/kg
Options Colours - Black Beauty; Options Aurora - All Colours; and Options Sparkle - Silver Twinkle/Golden Twilight/Jazzberry/Midnight Dust/Ravishing Red;Sunlit Snow/Caribbean Teal/Tangelo also contain the following chemical:			
Polyethylene terephthalate	No information available.	No information available.	No information available.
Options Colours - Cafe Couteur/Cashmere Red/Chai/Champagne/Chiffon/Coral Burst/Cranberry Crush / Desert Rose/Dream Pink/Enchanted Green/Exotic Orchid/Flamingo/Frappe Mocha/Green Flash/Iced Violet / Irish Kiss/Mauvella/Mystic Mauve/Paprika/Peachy Keen/Pink Glow/Pink Pearl/Purple Lustre/Purple Royale / Raspberry Glace/Red Muse/Satin Pearl/Sienna Sunrise/Simply Pink/Soft Coral/Tangy Orange/Tawny Beige / Tropical Sand/Tuscan Sunset/Amethyst Smoke/Blue Blast/Blush-A-Bit/Brazilian Blue / Breeze / Bronze / Mist; Options Sparkle - Silver Twinkle/Bronze/Gold/Golden Twilight/Silver and Options Arts - Creamy Purple also contain the following chemical:			
Mica	No information available.	No information available.	No information available.
Options Colours - Cafe Couteur/Chai/Champagne/Chiffon/Cranberry Crush/Desert Rose/Dream Pink / Fire/ Frappe Mocha/Georgia Peach/Hazy Khaki/Latte/Misty Rose/Paprika/Peachy Keen/Pink Blush/Sienna Sunrise / Smokey Taupe/Smouldering Mauve/Tawny Beige/Tropical Sand/Tuscan Sunset/Windswept Tan / Amethyst Smoke/Blush-A-Bit/Bronze/Mist; and Options Sparkle - Bronze/Gold/Golden Twilight/Silver also contain the following chemical:			
Iron oxide	No information available.	> 10,000 mg/kg	No information available.
Options Colours - Cafe Couteur/Champagne/Chiffon/Cranberry Crush/Iced Violet/Merlot/Peachy Keen / Pearlescence/Sienna Sunrise/Tuscan Sunset/Breeze; and Options Sparkle - Blue/Bronze/Clear/Coral/ Gold / Golden Twilight/Jazzberry/Lilac/Mauve/Midnight Dust / Pink/Raspberry/Ravishing Red/Silver/Sunlit Snow / Caribbean Teal/Tangelo/Stardust also contain the following chemical:			
Silica	No information available.	3160 mg/kg	No information available.

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SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

: No data is available on the product itself. Should not be released into the environment. All Options products contain: 2-Hydroxyethyl methacrylate (HEMA); Hydroxypropyl methacrylate (HPMA); Hydroxycyclohexyl phenyl ketone. Options Lines - Opti-Bond and Base 'n Gloss also contain Iso-bornyl acrylate. Options Lines - Sculpturing White, Opti-Bond, Base 'n Gloss, Brite White and Clear 100% also contain Trimethylbenzoyl diphenylphosphine oxide.

The acute toxicity of 2-Hydroxyethyl methacrylate (HEMA) is (literature):

Toxicity to fish - LC50/96h/Fathead minnows = 227 mg/L

Toxicity to daphnia - EC50/48h/daphnia = 380 mg/L

Toxicity to algae - EC50/72h/algae = 380 mg/L

The acute toxicity of Hydroxypropyl methacrylate (HPMA) is (literature):

Toxicity to fish - LC50/48h/Leuciscus idus (Golden orfe) = 493 mg/L

Toxicity to daphnia - EC50/48h/daphnia = > 140 mg/L

Toxicity to algae - EC50/72h/algae = > 97 mg/L

The acute toxicity of Hydroxycyclohexyl phenyl ketone is (ECHA):

Toxicity to fish - LC50/96h/Brachydanio rerio = mg/L

Toxicity to daphnia - EC50/48h/daphnia = 53.9 mg/L

Toxicity to algae - EC50/72h/algae = 14.4 mg/L

The acute toxicity of Isobornyl acrylate is (literature):

Toxicity to daphnia - EC50/48h/daphnia = 0.9 mg/L

The acute toxicity of Trimethylbenzoyl diphenylphosphine oxide is (literature);

Toxicity to fish - LC50/96h/ = 10 - 100 mg/L

Toxicity to daphnia - EC50/48h/daphnia = 10 - 100 mg/L

Toxicity to algae - EC50/72h/algae = 10 - 100 mg/L

Persistence and degradability

: The product itself has not been tested. All Options products contain: 2-Hydroxyethyl methacrylate (HEMA); Hydroxypropyl methacrylate (HPMA); Hydroxycyclohexyl phenyl ketone. Options Lines - Opti-Bond and Base 'n Gloss also contain Iso-bornyl acrylate. Options Lines - Sculpturing White, Opti-Bond, Base 'n Gloss, Brite White and Clear 100% also contain Trimethylbenzoyl diphenylphosphine oxide.

2-Hydroxyethyl methacrylate (HEMA), Hydroxypropyl methacrylate (HPMA); Hydroxycyclohexyl phenyl ketone and Iso-bornyl acrylate are considered to be readily biodegradable.

Trimethylbenzoyl diphenylphosphine oxide is considered to be poorly biodegradable.

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Bioaccumulation potential : The product itself has not been tested.
 Options Lines - Sculpturing White, Opti-Bond, Base 'n Gloss, Brite White and Clear 100% also contain Trimethylbenzoyl diphenylphosphine oxide.
 The log Kow value for Trimethylbenzoyl diphenylphosphine oxide is 3.87.

Mobility in soil : The product itself has not been tested.

Results of PBT and vPvB assessment
 : This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).

Other Adverse Environmental effects
 : None known.

Water contaminating class (Germany)
 : 1 (self classified)

SECTION 13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods:

Handling for Disposal : Handle in accordance with good industrial hygiene and safety practice. Refer to protective measures listed in sections 7 and 8.

Methods of Disposal : Dispose of in accordance with the European Directives on waste and hazardous waste. Waste must be classified and labelled prior to recycling or disposal. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

SECTION 14. TRANSPORTATION INFORMATION

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
ADR/RID	None	not regulated	Not regulated	none	
EU ADR/RID Classification Code	Not applicable.				
EU ADR / RID Hazard Identification Number	Not applicable.				
ADR/RID Additional information	Not classified as dangerous for conveyance in the meaning of the regulations for the transport of dangerous goods by road and rail.				
ICAO/IATA	None	Not regulated.	Not regulated	none	
ICAO/IATA Additional information	None.				

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IMDG	None	Not regulated.	Not regulated	none	
IMDG Additional information	None.				

Special precautions for user : Keep away from heat and sources of ignition. Do not freeze. Appropriate advice on safety must accompany the package.

Environmental hazards : This product does not meet the criteria for an environmentally hazardous mixture, according to the IMDG Code. Although this product does not meet the criteria for an environmentally hazardous mixture, according to the IMDG Code, this product does contain substances toxic for the environment. See Section 12 for more environmental information.

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

: Not applicable.

SECTION 15. REGULATORY INFORMATION

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

- : 1. Substances presenting a health or environmental hazard within the meaning of Directive 67/548/EEC.
- : 2. Classification according to European directive on classification of hazardous preparations 1999/45/EC.
- : 3. This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.
- : 4. In accordance with the legislation of the United Kingdom.
- : 5. German legislation on water endangering substances VwVwS (see Section 12).

Chemical safety assessment : A chemical safety assessment has not been carried out by the Manufacturer of this product.

SECTION 16. OTHER INFORMATION

- Legend** :
- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
 - CAS: Chemical Abstract Services
 - EC: European Community
 - EEC: European Economic Community
 - EHC: Environmental Health Criteria
 - EINECS: European Inventory of Existing Commercial chemical Substances
 - EN: European Standard
 - EU: European Union
 - HSDB: Hazardous Substances Data Bank
 - IATA: International Air Transport Association
 - IBC: Intermediate Bulk Container
 - ICAO: International Civil Aviation Organisation
 - IMDG: International Maritime Dangerous Goods
 - IUCLID: International Uniform Chemical Information Database
 - LC: Lethal Concentration
 - LD: Lethal Dose
 - OEL: National occupational exposure limits
 - RID: Regulations concerning the International Carriage of Dangerous Goods by Rail
 - RTECS: Registry of Toxic Effects of Chemical Substances
 - SDS: Safety Data Sheet
 - STEL: Short Term Exposure Limit
 - TWA: Time Weighted Average
 - WEL: Workplace Exposure Limit

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- Information Source** : 1. Material Safety Data Sheet from manufacturer.
2. Canadian Centre for Occupational Health and Safety, CCInfoWeb Databases, 2013 (Chempendium, RTECs, HSDB, INCHEM).
3. European Chemicals Bureau, Existing Chemicals Work Area, EINECS Information System, 2013.
4. European Chemicals Agency, Classification Legislation, 2013.
5. OECD - The Global Portal to Information on Chemical Substances - eChemPortal, 2013.
- Preparation Date (dd/mm/yyyy)** : 13/12/2011
- Reviewed Date SDS (dd/mm/yyyy)** : 09/07/2013
- Revision No.** : 3
- Revision Information** : (M)SDS sections updated:
2. HAZARDS IDENTIFICATION;
3. COMPOSITION/INFORMATION ON INGREDIENTS;
8. EXPOSURE CONTROLS / PERSONAL PROTECTION;
11. TOXICOLOGICAL INFORMATION;
12. ECOLOGICAL INFORMATION
- R-Phrases (Full text)** : R36 - Irritating to eyes.
R36/38 - Irritating to eyes and skin.
R38 - Irritating to skin.
R41 - Risk of serious damage to eyes.
R50 - Very toxic to aquatic organisms.
R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R62 - Possible risk of impaired fertility.
Refer to section 2 for additional R phrases not listed here.
- Other special considerations for handling** : Provide adequate information, instruction and training for operators.
This product is subject to the EEC Directive for Cosmetics, 76/768/EEC, and its National implementations in the European Union. These products may also contain the following chemicals:
Iron oxide (CI 77499) - CAS # 1317-61-9
Red 40 (CI 16035) - CAS # 68583-95-9
Red 7 (CI 15850) - CAS # 5281-04-9
Yellow 5 Lake (CI 19140:1) - CAS # 1934-21-0
Blue 1 Lake (CI 42090:2) - CAS # 68921-42-6
Red 6 (CI 15850) - CAS # 5858-81-1
Yellow 5 Lake (CI 19140) - CAS # 12225-21-7
Ferric Ferrocyanide (CI 77510) - CAS # 14038-43-8
Carmine (CI 75470) - CAS # 1390-65-4
Iron Oxides (CI 77499) - CAS # 12227-89-3
Blue 1 Lake (CI 42090) - CAS # 15792-67-3
Iron Oxides (CI 77492) - CAS # 51274-00-1
Ferric Ammonium Ferrocyanide (CI 77510) - CAS # 25869-00-5
Calcium aluminum borosilicate - CAS # 65997-17-3
Iron Oxides (CI 77491) - CAS # 1332-37-1
Violet 2 (CI 60725) - CAS # 81-48-1

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Other special considerations for handling (continued):

Hydroxy Ketone Mixture - CAS # 163702-01-0
Aluminium (CI 77000) - CAS # 7429-90-5
Shellac - CAS # 9000-59-3
Red 28 (CI 45410) - CAS # 18472-87-2
Ext. Violet 2 (CI 60730) - CAS # 4430-18-6
Orange 5 (CI 45370) - CAS # 596-03-2
Red 22 (CI 45380) - CAS # 17372-87-1
Polyester-3 - CAS # 284662-70-0
Yellow 11 (CI 47000) - CAS # 8003-22-3
Bis(glycidoxyphenyl) propane/Bisaminomethylnorbornane copolymer - CAS # 146277-66-9

<p>Prepared for: Haigh Industries Inc. #5 - 8118 North Fraser Way Burnaby, British Columbia, Canada, V5J 0E5 Telephone: 001-604-278-5851 http://www.haighindustries.com Direct all enquiries to Haigh Industries.</p>	
<p>Prepared by: ICC The Compliance Center Inc. http://www.thecompliancecenter.com</p>	

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