

UV/LED Pro-Formance Gels

Product code(s): Enhance; Ultra Gloss; Balance Clear; Structure; Balance Coverage Cool Pink; Balance Coverage Warm Pink; Formation White; Adhere

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SAFETY DATA SHEET

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

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

1.1 Product identifier : **UV/LED Pro-Formance Gels**
Product Code(s) : Enhance; Ultra Gloss; Balance Clear; Structure; Balance Coverage Cool Pink; Balance Coverage Warm Pink; Formation White; Adhere

1.2 Relevant identified uses of the substance or mixture and uses advised against
: Cosmetic nail gel.
Use pattern: Consumers.

1.3 Details of the supplier of the safety data sheet:

Haigh Industries Inc.
#5 – 8118 North Fraser Way
Burnaby, British Columbia, Canada
V5J 0E5
Email: contact.info@akzentz.com

Telephone : 001-604-278-5851

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

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Viscous liquid of various colors. Acrylic odour.

Most important hazards:

This mixture is classified as hazardous in accordance with Regulation (EC) No 1272/2008.

Pro-Formance Adhere has the following classification according to Regulation (EC) No. 1272/2008:

Skin corrosion/irritation - Category 2; H315
Skin sensitization - Category 1; H317
Eye damage/irritation - Category 2; H319
Specific target organ toxicity - single exposure - Category 3; H335
Chronic aquatic toxicity - Category 2; H411

All other Pro-Formance products have the following classification according to Regulation (EC) No. 1272/2008:

Skin corrosion/irritation - Category 2; H315
Skin sensitization - Category 1; H317
Eye damage/irritation - Category 2; H319
Specific target organ toxicity - single exposure - Category 3; H335

The preparation is classified as dangerous in accordance with Directive 1999/45/EC.

Pro-Formance Adhere has 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.
N - Dangerous for the environment
R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

All other Pro-Formance products 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.

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2.2 Label elements

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.

Pro-Formance Adhere will require the following labelling elements to appear on the labels according to Regulation (EC) No. 1272/2008:

Signal word:

Warning!

Hazard statements

- H315 - Causes skin irritation.
- H317 - May cause an allergic skin reaction.
- H319 - Causes serious eye irritation.
- H335 - May cause respiratory irritation.
- H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements:

- P102 - Keep out of reach of children.
- P271 - Use only outdoors or in a well-ventilated area.
- P280 - Wear protective gloves and eye/face protection.
- P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.
- P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P405 - Store locked up.
- P501 - Dispose of contents/container in accordance with local regulation.

Hazard pictograms



All other Pro-Formance products will require the following labelling elements to appear on the labels according to Regulation (EC) No. 1272/2008:

Signal word:

Warning!

Hazard statements:

- H315 - Causes skin irritation.
- H317 - May cause an allergic skin reaction.
- H319 - Causes serious eye irritation.
- H335 - May cause respiratory irritation.

Precautionary statements:

- P102 - Keep out of reach of children.
- P271 - Use only outdoors or in a well-ventilated area.
- P280 - Wear protective gloves and eye/face protection.
- P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.
- P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P405 - Store locked up.
- P501 - Dispose of contents/container in accordance with local regulation.

Hazard pictograms:



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2.3 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. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Environmental precautions:

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

PBT assessment:

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

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable

3.2 Mixtures

Chemical nature: Mixture - Acrylates; Ketones; Pigments.

The following substances shall be indicated according to legislation:

Chemical name	CAS #	EC No.	Concentration	EU Classification	CLP Classification
All Pro-Formance products contain the following chemicals:					
Di-HEMA Trimethylhexyl dicarbamate	Not reported	Polymer	60.0 - 75.0	Xi - Irritant; R36/37/38 - R43 (self classified)	Skin Irrit. 2; H315 Skin Sens. 1; H317 Eye Irrit. 2; H319 STOT SE 3; H335 (self classified)
2-Hydroxyethyl methacrylate (HEMA)	868-77-9	212-782-2	10.0 - 20.0	Xi - Irritant; R36/38 - R43	Skin Irrit. 2; H315 Skin Sens. 1; H317 Eye Irrit. 2; H319
Hydroxypropyl methacrylate (HPMA)	27813-02-1	248-666-3	7.0 - 15.0	Xi - Irritant; R36 - R43 (self classified)	Skin Sens. 1; H317 Eye Irrit. 2; H319 (self classified)
Trimethylbenzoyl diphenylphosphine oxide	75980-60-8	278-355-8	0.1 - 2.0	Xn - Harmful Repr.Cat.3;R62 *R52-53	Repr. 2; H361f *Aquatic Chronic 3; H412
Pro-Formance Adhere also contains the following chemicals:					
iso-Bornyl acrylate	5888-33-5	227-561-6	5.0 - 10.0	Xi - Irritant; R36/37/38 N - Dangerous for the environment; R50/53 (self classified)	Skin Irrit. 2; H315 Skin Sens. 1; H317 Eye Irrit. 2; H319 STOT SE 3; H335 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 (self classified)
Bis (Glyceryl Dimethacrylate) Pyromellitate	148019-46-9	None known.	1.0 - 5.0	Xi - Irritant; R38 - R43 (self classified)	Skin Irrit. 2; H315 Skin Sens. 1; H317 (self classified)

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Pro-Formance Balance Coverage Cool Pink, Balance Coverage Warm Pink and Formation White also contain the following chemical:					
Titanium dioxide	13463-67-7	236-675-5	0.1 - 2.0	Xn - Harmful Carc. Cat. 3; R40 (self classified)	Carc. 2; H351 (self classified)
Pro-Formance Balance Coverage Cool Pink, Balance Coverage Warm Pink, Formation White; Balance Clear and Structure also contain the following chemical:					
Silica	7631-86-9	231-545-4	1.0 - 3.0	None assigned. Substances for which there are Community workplace exposure limits.	None assigned. Substances for which there are Community workplace exposure limits.

*Note: The classifications listed for the following chemicals are in addition to those appearing in Annex VI of Regulation (EC) No. 1272/2008: Trimethylbenzoyl diphenylphosphine oxide.

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

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

SECTION 4. FIRST-AID MEASURES

4.1 Description of first aid measures

- Ingestion* : Do NOT induce vomiting. Never give anything by mouth to an unconscious person. When symptoms persist or in all cases of doubt seek medical advice.
- Inhalation* : IF INHALED: Remove person to fresh air and keep comfortable for breathing. If breathing is irregular or stopped, administer artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. Call a POISON CENTRE or doctor/physician if you feel unwell.
- Skin contact* : IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs, seek medical advice/attention. Take off contaminated clothing and wash it before reuse.
- Eye contact* : 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.

4.2 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.
Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

4.3 Indication of any immediate medical attention and special treatment needed

- : Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

5.1 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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5.2 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.

5.3 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

6.1 Personal precautions, protective equipment and emergency procedures

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

6.2 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.

6.3 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.

6.4 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

7.1 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. Wear protective gloves and eye/face protection. Use only outdoors or in a well-ventilated area. 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. Keep out of the reach of children.

7.2 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.

7.3 Specific end use(s)

- : Cosmetics

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SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters

Exposure Limits:			
<u>Chemical Name</u>	<u>Exposure Limits</u>	<u>Type</u>	<u>Notes</u>
2-Hydroxyethyl methacrylate (HEMA)	20 mg/m ³ (TWA)	Lithuania (OEL)	Sensitiser
Bis (Glyceryl Dimethacrylate) Pyromellitate	None known.	European Union (OEL)	None.
Di-HEMA Trimethylhexyl dicarbamate	None known.	European Union (OEL)	None.
Hydroxypropyl methacrylate (HPMA)	None known.	European Union (OEL)	None.
iso-Bornyl acrylate	None known.	European Union (OEL)	None.
Silica	4 mg/m ³ (inhalable); 0.3 mg/m ³ (respirable dust) (TWA)	Austria (OEL)	None.
	4 mg/m ³ (inhalable) (TWA)	Germany (OEL)	None.
	6 mg/m ³ (inhalable); 2.4 mg/m ³ (respirable dust) (TWA)	The United Kingdom (The United Kingdom (WELs))	None.
	18 mg/m ³ (inhalable); 7.2 mg/m ³ (respirable dust) (STEL)		
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 (The United Kingdom (WELs))	None.
	30 mg/m ³ (inhalable); 12 mg/m ³ (respirable dust) (STEL)		
Trimethylbenzoyl diphenylphosphine oxide	None known.	European Union (OEL)	None.

8.2 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.

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- 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

9.1 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** : > 96.7°C
- Flashpoint (Method)** : Tag 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.
- 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** : No information available.
- 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.

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Evaporation rate (BuAe = 1)

: No information available.

9.2 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

10.1 Reactivity : Product becomes reactive if inhibitor becomes depleted. Freezing may cause depletion of inhibitor increasing the risk of polymerization.

10.2 Chemical stability : Stable under normal conditions.

10.3 Possibility of hazardous reactions

: May polymerize when heated or on contact with incompatible materials.

10.4 Conditions to avoid : Direct sources of heat. Keep away from direct sunlight. Do not freeze. Do not use in areas without adequate ventilation.

10.5 Incompatible materials

: Oxidizing materials; Amines; Polymerization initiators; Inert gases; Copper; Brass; Mild steel; Ultraviolet light (e.g. sunlight).

10.6 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

11.1 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.

Skin corrosion/Irritation : This mixture is classified as hazardous in accordance with Regulation (EC) No 1272/2008.
Classification:
Skin corrosion/irritation - Category 2. Causes skin irritation.

Serious eye damage/irritation

: This mixture is classified as hazardous in accordance with Regulation (EC) No 1272/2008.
Classification:
Eye damage/irritation - Category 2. Causes serious eye irritation.

Respiratory or skin sensitisation

: This mixture is classified as hazardous in accordance with Regulation (EC) No 1272/2008.
Classification:
Skin sensitization - Category 1. May cause an allergic skin reaction.

No data available to indicate product or components may be respiratory sensitizers.

Germ cell mutagenicity : Contains no ingredient listed as a mutagen.

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Carcinogenicity : Not classifiable as a human carcinogen.

For Pro-Formance Balance Coverage Cool Pink, Balance Coverage Warm Pink and Formation White:

This product contains titanium dioxide, an IARC Group 2B carcinogen. However, the Titanium dioxide used in this product is in a non-respirable form and under normal conditions of use, Titanium dioxide cannot become airborne. The carcinogenic effects of Titanium dioxide are therefore not applicable to this product.

Reproductive toxicity : Not classifiable as a reproductive toxin.
 Contains: Trimethylbenzoyl diphenylphosphine oxide. Trimethylbenzoyl diphenylphosphine oxide is suspected of damaging fertility. However, the concentration in this mixture is below the concentration cutoff required for classification.

STOT-single exposure : This mixture is classified as hazardous in accordance with Regulation (EC) No 1272/2008.
 Classification:
 Specific target organ toxicity - single exposure - Category 3. May cause respiratory irritation.

STOT-repeated exposure : According to the classification criteria of the European Union, this product is not expected to cause target organ toxicity through repeated exposures.

Aspiration hazard : According to the classification criteria of the European Union, this product is not considered as being an aspiration hazard to humans.

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

<u>Chemical name</u>	<u>LC₅₀(4hr)</u> <u>inh, rat</u>	<u>LD₅₀</u>	
		<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
All Pro-Formance 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.	11 200 mg/kg	> 3000 mg/kg
Trimethylbenzoyl diphenylphosphine oxide	No information available.	> 5000 mg/kg	No information available.
Pro-Formance Adhere also contains the following chemicals:			
iso-Bornyl acrylate	No information available.	4890 mg/kg	> 5000 mg/kg
Bis (Glyceryl Dimethacrylate) Pyromellitate	No information available.	No information available.	No information available.
Pro-Formance Balance Coverage Cool Pink, Balance Coverage Warm Pink and Formation White also contain the following chemical:			
Titanium dioxide	> 6820 mg/m ³	> 25 000 mg/kg	> 10 000 mg/kg
Pro-Formance Balance Coverage Cool Pink, Balance Coverage Warm Pink, Formation White; Balance Clear and Structure also contain the following chemical:			
Silica	No information available.	3160 mg/kg	No information available.

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

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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.

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity : No data is available on the product itself. The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters. Pro-Formance Adhere is toxic to aquatic life with long lasting effects.

See the following tables for individual ingredient ecotoxicity data.

Ecotoxicity data:

<u>Ingredients</u>	CAS No	Toxicity to Fish		
		LC50 / 96h	NOEC / 21 day	M Factor
Di-HEMA Trimethylhexyl dicarbamate	Not reported	No information available.	No information available.	No information available.
2-Hydroxyethyl methacrylate (HEMA)	868-77-9	227 mg/L (Fathead minnow)	No information available.	None.
Hydroxypropyl methacrylate (HPMA)	27813-02-1	No information available.	No information available.	No information available.
Titanium dioxide	13463-67-7	240 - 370 mg/L (sheepshead minnow)	No information available.	None.
Silica	7631-86-9	> 10 000 mg/L (Zebra fish)	No information available.	None.
Trimethylbenzoyl diphenylphosphine oxide	75980-60-8	10 - 100 mg/L	No information available.	None.
iso-Bornyl acrylate	5888-33-5	0.704 mg/L (Zebra fish)	No information available.	1
Bis (Glyceryl Dimethacrylate) Pyromellitate	148019-46-9	No information available.	No information available.	No information available.

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<u>Ingredients</u>	CAS No	Toxicity to Daphnia		
		EC50 / 48h	NOEC / 21 day	M Factor
Di-HEMA Trimethylhexyl dicarbamate	Not reported	No information available.	No information available.	No information available.
2-Hydroxyethyl methacrylate (HEMA)	868-77-9	380 mg/L (Daphnia magna)	24.1 mg/L	None.
Hydroxypropyl methacrylate (HPMA)	27813-02-1	> 140 mg/L (Daphnia magna)	No information available.	None.
Titanium dioxide	13463-67-7	No information available.	No information available.	No information available.
Silica	7631-86-9	> 10 000 mg/L/24hr (Daphnia magna)	No information available.	None.
Trimethylbenzoyl diphenylphosphine oxide	75980-60-8	10 - 100 mg/L	No information available.	None.
iso-Bornyl acrylate	5888-33-5	0.9 mg/L (Daphnia magna)	0.092 mg/L	1
Bis (Glyceryl Dimethacrylate) Pyromellitate	148019-46-9	No information available.	No information available.	No information available.

<u>Ingredients</u>	CAS No	Toxicity to Algae		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor
Di-HEMA Trimethylhexyl dicarbamate	Not reported	No information available.	No information available.	No information available.
2-Hydroxyethyl methacrylate (HEMA)	868-77-9	345 mg/L/72hr (Green algae)	No information available.	None.
Hydroxypropyl methacrylate (HPMA)	27813-02-1	> 97 mg/L/72hr (Green algae)	No information available.	None.
Titanium dioxide	13463-67-7	No information available.	No information available.	No information available.
Silica	7631-86-9	440 mg/L/72hr (Green algae)	No information available.	None.
Trimethylbenzoyl diphenylphosphine oxide	75980-60-8	10 - 100 mg/L/72hr	No information available.	None.
iso-Bornyl acrylate	5888-33-5	1.98 mg/L/72hr (Green algae)	0.405 mg/L/72hr	None.
Bis (Glyceryl Dimethacrylate) Pyromellitate	148019-46-9	No information available.	No information available.	No information available.

12.2 Persistence and degradability

: The product itself has not been tested.
All Pro-Formance products contain: 2-Hydroxyethyl methacrylate (HEMA); Hydroxypropyl methacrylate (HPMA); Trimethylbenzoyl diphenylphosphine oxide.

2-Hydroxyethyl methacrylate (HEMA) and Hydroxypropyl methacrylate (HPMA) are considered to be readily biodegradable.
 Trimethylbenzoyl diphenylphosphine oxide is considered to be poorly biodegradable.

Pro-Formance Adhere contains Isobornyl acrylate. Isobornyl acrylate is not considered to be readily biodegradable.

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12.3 Bioaccumulation potential

- : The product itself has not been tested.
- All Pro-Formance products contain Trimethylbenzoyl diphenylphosphine oxide. The log Kow value for Trimethylbenzoyl diphenylphosphine oxide is 3.87.

12.4 Mobility in soil

- : The product itself has not been tested.

12.5 Results of PBT and vPvB assessment

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

12.6 Other Adverse Environmental effects

- : None known.

Water contaminating class (Germany)

- : Pro-Formance Adhere: 2 (self classified)
- All other Pro-Formance products: 1 (self classified)

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 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	14.1 UN Number	14.2 UN proper shipping name	14.3 Transport hazard class(es)	14.4 Packing Group	Label
The following transportation information is applicable for all Pro-Formance products, with the exception of Pro-Formance Adhere.					
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.				
The following transportation information is applicable for Pro-Formance Adhere.					
ADR/RID	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Isobornyl acrylate)	9	III	
EU ADR/RID Classification Code	M6 - Pollutant to the aquatic environment, liquid				
EU ADR / RID Hazard Identification Number	90 - environmentally hazardous substance; miscellaneous dangerous substances				
ADR/RID Additional information	May be shipped as a Limited Quantity when transported in containers no larger than 5.0 L, in combination packagings no larger than 30 kg gross mass. The environmentally hazardous substance mark must appear on packagings holding more than 5 litres of the material.				
ICAO/IATA	UN3082	Environmentally hazardous substance, liquid, n.o.s. (Isobornyl acrylate)	9	III	
ICAO/IATA Additional information	Refer to the appropriate Packing Instruction, prior to shipping this material. Review all State and Operator Variations, prior to shipping this material. The environmentally hazardous substance mark must appear on packagings holding more than 5 litres of the material.				
IMDG	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Isobornyl acrylate)	9	III	
IMDG Additional information	May be shipped as Limited Quantity when transported in containers no larger than 5.0 Litres; in packages not exceeding 30 kg gross mass. The environmentally hazardous substance mark must appear on packagings holding more than 5 litres of the material.				

14.5 Environmental hazards : *Pro-Formance Adhere:*

This product meets the criteria for an environmentally hazardous material according to the IMDG Code. See ECOLOGICAL INFORMATION, Section 12.

All other Pro-Formance products:

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.

14.6 Special precautions for user

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

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

- : Not applicable.

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SECTION 15. REGULATORY INFORMATION

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

- : 1. Classification according to Regulation (EC) No. 1272/2008 on the classification of hazardous mixtures.
- 2. Substances presenting a physical, health or environmental hazard within the meaning of Regulation (EC) No. 1272/2008.
- 3. This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended [*including Regulation (EU) No. 453/2010*].
- 4. In accordance with the legislation of the United Kingdom.
- 5. German legislation on water endangering substances VwVwS (see Section 12).

15.2 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

Information Source

- : 1. Material Safety Data Sheet from manufacturer.
- 2. Canadian Centre for Occupational Health and Safety, CCIInfoWeb Databases, 2014 (Chempendium, RTECs, HSDB, INCHEM).
- 3. European Chemicals Bureau, Existing Chemicals Work Area, EINECS Information System, 2014.
- 4. European Chemicals Agency, Classification Legislation, 2014.
- 5. OECD - The Global Portal to Information on Chemical Substances - eChemPortal, 2014.

Preparation Date (dd/mm/yyyy)

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- H & R-Phrases (Full text)** :
- R36 - Irritating to eyes.
 - R36/38 - Irritating to eyes and skin.
 - R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 - R61 - May cause harm to the unborn child.
 - 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:
 - Yellow 5 Lake (CI 19140) - CAS # 12225-21-7
 - Violet 2 (CI 60725) - CAS # 81-48-1
 - p-Hydroxyanisole - CAS # 150-76-5
 - Red 7 Lake (CI 15850) - CAS # 5281-04-6
 - Red 30 Lake (CI 73360) - CAS # 2379-74-0
 - Acrylic Acid - CAS # 79-10-7

<p><u>Prepared for:</u> Haigh Industries Inc. 106 - 2971 Viking Way Richmond, B.C., Canada, V6V 1Y1 Telephone: 001-604-278-5851 http://www.haighindustries.com Direct all enquiries to Haigh Industries.</p>	
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