

Gel Art Powder

SDS Preparation Date (dd/mm/yyyy): 24/05/2013

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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 : **Gel Art Powder**

Product Code(s) : Nail polymer.

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

: Cosmetic nail colour additive.
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

Fine, white powder. Faint acrylic odour.

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

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

Label elements



Irritant

Hazardous components which must be listed on the label: None.

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

S 2 - Keep out of the reach of children.

S22 - Do not breathe dust.

S24/25 - Avoid contact with skin and eyes.

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.

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Other hazards

Other hazards which do not result in classification:

May form combustible dust - air mixtures. Fine dust dispersed in air may ignite.

At higher temperatures decomposition will take place and lower the quality of the product. Exposure to decomposition products may cause a health hazard. Heating above the decomposition temperature will release acrylic monomers. At high concentrations the monomer vapours can cause eye and nose irritation. Monomer vapours may cause central nervous system effects, ranging from dizziness and nausea to unconsciousness. Decomposition monomers may cause skin sensitization by skin contact.

Prolonged or repeated contact with decomposition monomers may cause allergic contact dermatitis symptoms such as swelling, rash and eczema. Prolonged or repeated exposure to monomer vapours could also cause liver and kidney effects.

Environmental precautions:

Avoid release to the environment.

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 - Methacrylate polymers; Peroxide.

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>
Polyethyl methacrylate homopolymer	9003-42-3	Polymer	60.0 - 80.0	None assigned.
Poly (Methyl methacrylate)	9011-14-7	Polymer	20.0 - 40.0	None assigned. Substances for which there are Community workplace exposure limits.
Dibenzoyl peroxide	94-36-0	202-327-6	< 1.0	E - Explosive; R3 O - Oxidising; R7 Xi - Irritant; R36 - R43
May produce the following hazardous decomposition products when exposed to extreme heat:				
<i>Ethyl methacrylate</i>	97-63-2	202-597-5	Not known.	F - Highly flammable; R11 Xi - Irritant; R36/37/38 - R43
<i>Methyl methacrylate</i>	80-62-6	201-297-1	Not known.	F - Highly flammable; R11 Xi - Irritant; R37/38 - R43

Note: Ethyl methacrylate and Methyl methacrylate are not intentionally added to this product.

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* : If swallowed, seek medical advice immediately and show this container or label. Do NOT induce vomiting. 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. When symptoms persist or in all cases of doubt seek medical advice.
- Skin contact* : Remove contaminated clothing and shoes. Wash off immediately with soap and plenty of water. Wash contaminated clothing before reuse. When symptoms persist or in all cases of doubt seek medical advice.
- Eye contact* : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

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Most important symptoms and effects, both acute and delayed

- : Irritating to eyes, respiratory system and skin.
Heating above the decomposition temperature will release acrylic monomers. At high concentrations the monomer vapours can cause eye and nose irritation. Monomer vapours may cause central nervous system effects, ranging from dizziness and nausea to unconsciousness. Decomposition monomers may cause skin sensitization by skin contact. Prolonged or repeated contact with decomposition monomers may cause allergic contact dermatitis symptoms such as swelling, rash and eczema. Prolonged or repeated exposure to monomer vapours could also cause liver and kidney effects.

Indication of any immediate medical attention and special treatment needed

- : Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media

- : Dry chemical; Carbon dioxide (CO₂); Water spray

Unsuitable extinguishing media

- : Do not use a solid water stream as it may scatter and spread fire.

Special hazards arising from the substance or mixture

- : May form combustible dust - air mixtures. Fine dust dispersed in air may ignite. Heating above the decomposition temperature will release acrylic monomers. Monomer vapours are highly flammable. 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: Carbon oxides; Monomer; formaldehyde; Ethanol; Methyl formate; Biphenols; Hydrocarbons; 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.

Methods and material for containment and cleaning up

- : Ventilate the area. Prevent further leakage or spillage if safe to do so. Remove all sources of ignition. Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation. Keep in properly labelled containers. 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.

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SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

- : Use only in well-ventilated areas. Use personal protective equipment as required. Do not breathe dust or fume. Avoid contact with skin, eyes and clothing. Avoid and control operations which create dust. Keep away from heat and sources of ignition. Ground/Bond container and receiving equipment. Keep away from acids and other incompatibles. Keep container tightly closed. Wash thoroughly after handling. Empty containers retain residue.

Conditions for safe storage, including any incompatibilities

- : Keep containers tightly closed in a cool, well-ventilated place. Keep away from heat. Inspect periodically for damage or leaks. Protect against physical damage. Keep out of the reach of children.

Specific end use(s)

- : Cosmetics.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters

Exposure Limits:			
Chemical Name	Exposure Limits	Type	Notes
Dibenzoyl peroxide	5 mg/m ³ (TWA)	France (OEL)	None.
	5 mg/m ³ (inhalable) (exposure factor 1) (TWA)	Germany (OEL)	None.
	5 mg/m ³ (TWA) 10 mg/m ³ (STEL)	Poland (OEL)	None.
	5 mg/m ³ (TWA)	Spain (OEL)	None.
	5 mg/m ³ (TWA) 15 mg/m ³ (STEL)	The United Kingdom (The United Kingdom (WELs))	None.
<i>*Ethyl methacrylate</i>	10 ppm (47 mg/m ³) (TWA) 20 ppm (95 mg/m ³) (STEL)	Finland (OEL)	None.
	150 mg/m ³ (TWA) 250 mg/m ³ (STEL)	Rumania (OEL)	None.
	25 ppm (117 mg/m ³) (TWA)	Denmark (OEL)	None.
<i>*Methyl methacrylate</i>	50 ppm (TWA) 100 ppm (STEL)	European Union (OEL)	None.
	50 ppm (205 mg/m ³) (TWA) 100 ppm (410 mg/m ³) (STEL)	France (OEL)	None.
	50 ppm (210 mg/m ³) (exposure factor 2) (TWA)	Germany (OEL)	None.
	100 mg/m ³ (TWA) 300 mg/m ³ (STEL)	Poland (OEL)	None.
	50 ppm (TWA) 100 ppm (STEL)	Spain (OEL)	None.
	50 ppm (208 mg/m ³) (TWA) 100 ppm (416 mg/m ³) (STEL)	The United Kingdom (The United Kingdom (WELs))	None.

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Poly (Methyl methacrylate)	20.0 mg/m ³ (TWA)	Bulgaria (OEL)	None.
Polyethyl methacrylate homopolymer	None known.	European Union (OEL)	None.

*Note: Ethyl methacrylate and Methyl methacrylate are not intentionally added to this product. The above exposure limits are provided for safety reasons.

Exposure controls

Ventilation and engineering measures

- : Provide adequate ventilation. 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

- : Wear as appropriate: Effective dust mask. 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

- : For prolonged or repeated contact use protective gloves. Wear as appropriate: Nitrile rubber; Neoprene gloves; PVC; Latex or equivalent 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. Wear sufficient clothing to prevent skin contact.

Eye / face protection

- : Wear as appropriate: Safety glasses with side-shields; Goggles. See also EN 166.

Other protective equipment

- : Ensure that eyewash stations and safety showers are close to the workstation location.

General hygiene considerations

- : Do not breathe dust or fume. 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. Remove and wash contaminated clothing before re-use.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

- Appearance** : Fine, white powder.
- Odour** : Faint acrylic odour.
- Odour threshold** : No information available.
- pH** : No information available.
- Flash point** : 304°C
- Flashpoint (Method)** : Tag closed cup
- Lower flammable limit (% by vol.)** : Not applicable.
- Upper flammable limit (% by vol.)** : Not applicable.
- Flammability (solid, gas)** : Not applicable.
- Auto-ignition temperature** : No information available.
- Decomposition temperature** : No information available.
- Oxidizing properties** : None known.
- Explosive properties** : Not expected to be sensitive to mechanical impact or static discharge.
- Initial boiling point and boiling range** : No information available.

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Melting/Freezing point	: No information available.
Relative density	: > 1.0
Solubility in water	: insoluble
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	: Not normally reactive.
Chemical stability	: Stable under normal conditions. Heating above the decomposition temperature will release acrylic monomers. Monomer vapours are highly flammable.
Possibility of hazardous reactions	: Hazardous polymerization does not occur.
Conditions to avoid	: Direct sources of heat. Do not use in areas without adequate ventilation. Avoid contact with incompatible materials.
Incompatible materials	: Acids; Oxidizing agents; Alkalies.
Hazardous decomposition products	: Burning produces obnoxious and toxic fumes. In the event of fire the following can be released: Carbon oxides; Monomer; formaldehyde; Ethanol; Methyl formate; Biphenols; Hydrocarbons; 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; R36/37/38 - 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.
Sensitisation	: According to the classification criteria of the European Union, this product is not considered as being an allergic respiratory sensitiser. According to the classification criteria of the European Union, this product is not considered as being an allergic skin sensitiser. Heating above the decomposition temperature will release acrylic monomers. Decomposition monomers may cause skin sensitization by skin contact. Prolonged or repeated contact with decomposition monomers may cause allergic contact dermatitis symptoms such as swelling, rash and eczema.
Mutagenicity	: Contains no ingredient listed as a mutagen.

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- Carcinogenicity** : Contains no ingredient listed as a carcinogen.
Reproductive toxicity : Contains no ingredient listed as toxic to reproduction.
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.
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>
Polyethyl methacrylate homopolymer	No information available.	No information available.	No information available.
Poly (Methyl methacrylate)	No information available.	No information available.	No information available.
Dibenzoyl peroxide	No information available.	> 5000 mg/kg	No information available.
May produce the following hazardous decomposition products when exposed to extreme heat:			
<i>Ethyl methacrylate</i>	55 mg/L	13 424 mg/kg	> 10 mL/kg
<i>Methyl methacrylate</i>	> 25 mg/L	> 5000 mg/kg	> 5000 mg/kg

- Routes of exposure** : Eye contact; Skin contact; Inhalation; Ingestion.
Effects of acute exposure : Inhalation: Irritating to respiratory system. Inhalation of dust may cause shortness of breath, tightness of the chest, a sore throat and cough. Heating above the decomposition temperature will release acrylic monomers. At high concentrations the monomer vapours can cause eye and nose irritation. Monomer vapours may cause central nervous system effects, ranging from dizziness and nausea to unconsciousness.
 Skin contact: Irritating to skin.
 Eye contact: Irritating to eyes.
 Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

- Potential Chronic Health Effects** : Prolonged or repeated exposure to monomer vapours could also cause liver and kidney effects.
Other important hazards : None known or reported by the manufacturer.

SECTION 12. ECOLOGICAL INFORMATION

- Ecotoxicity** : 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. This product contains the following substance which may also be hazardous for the environment:
 Dibenzoyl peroxide.
 The acute toxicity of dibenzoyl peroxide is (OECD):
 Toxicity to fish - LC50/96h/Oryzias latipes = 0.24 mg/L
 Toxicity to daphnia - EC50/48h/daphnia = 0.07 mg/L
 Toxicity to algae - EC50/72h/algae = 0.07 mg/L
 Other ingredients present in this product are not classified as environmentally toxic.

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Persistence and degradability

: The product itself has not been tested. Contains: Dibenzoyl peroxide. Dibenzoyl peroxide is considered to be readily biodegradable.

Bioaccumulation potential

: The product itself has not been tested. Contains: Dibenzoyl peroxide. The log Pow value for Dibenzoyl peroxide is 3.43 (OECD).

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)

: No information available.

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 : 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. 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
 - 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
 - LC: Lethal Concentration
 - LD: Lethal Dose
 - OECD: Organisation for Economic Co-operation and Development
 - 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, CCIInfoWeb 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.

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R-Phrases (Full text)

- : R 3 - Extreme risk of explosion by shock, friction, fire or other sources of ignition.
R 7 - May cause fire.
R11 - Highly flammable.
R37/38 - Irritating to respiratory system and skin.
R38 - Irritating to skin.
R43 - May cause sensitization by skin contact.
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.

<p><u>Prepared for:</u> 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><u>Prepared by:</u> ICC The Compliance Center Inc. http://www.thecompliancecenter.com</p>	

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