



SAFETY DATA SHEET

This Safety Data Sheet complies with the Canadian Controlled Product Regulations, the United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard, 29 CFR 1910 (OSHA HCS), and the European Union Directives.

1. Product and Supplier Identification

- 1.1 **Products:** X-Bond and Luxio Naked Bases
- 1.2 **Product Use:** Nail Gel
- 1.3 **Producer:** Haigh Industries Inc.,
#5 – 8118 North Fraser Way,
Burnaby, B.C.
Canada, V5J 0E5
- Telephone: (604) 278-5851
- Supplier:** As above
- 1.4 **Emergencies (24-hour number):** +1(604) 278-5851

2. Hazards Identification

2.1 **Classification of product or mixture**

Note to reader: This product in an untested mixture and GHS classification is based on the classification of the ingredients and their concentrations. Proprietary ingredients do NOT exhibit any health effects not listed in this SDS.

GHS Classification: Skin Corrosion/Irritation: Category 1A
Serious Eye Damage: Category 1
Skin Sensitization: Category 1
Reproductive Toxicity: Category 2

GHS Label Elements, including precautionary statements

Pictogram:



Signal Word: Danger

GHS Hazard Statements:

H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H361 Suspected of damaging fertility or the unborn child.

GHS Precautionary Statements:

Prevention:

P203 Obtain, read and follow all safety instructions before use.

X-Bond and Luxio Naked Bases

P260 Do not breathe dust/fume/gas/mist/spray
P264 Wash skin thoroughly after handling.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response:

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do not induce vomiting.
P302+P361+P354 IF ON SKIN: Take off immediately all contaminated clothing. Immediately rinse with water for several minutes.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable breathing.

P305+P354+P338 IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P316 Get emergency medical help immediately.
P318 If exposed or concerned, get medical advice.
P321 Specific treatment (see Section 4).
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P363 Wash contaminated clothing before reuse.
P362+P364 Take off contaminated clothing and wash it before reuse.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/container to an approved waste disposal plant.

2.2 Hazards not otherwise classified (HNOC) or not covered by GHS: None

2.4 Additional Information

Primary Routes of Entry:

Skin Contact:	Yes
Skin Absorption:	Yes
Eye Contact:	Yes
Ingestion:	No
Inhalation:	Yes

Emergency Overview: This product contains ingredients which may cause mild eye and skin irritation in some people. For eye contact, symptoms may include a moderate burning sensation, tearing, redness, or swelling. Contact with skin may cause an allergic reaction due to prior sensitization. Local redness, rash, or itchy skin may occur in those persons with a pre-existing sensitivity or those predisposed to skin problems. In rare cases an allergic skin reaction may occur after long term contact with this product.

Effects of Short-Term (Acute) Exposure:Inhalation: Due to the low volatility of this product, no significant adverse health conditions are expected to occur during the proper use of this product. In rare cases some respiratory irritation may occur.

Skin Contact: It is expected that absorption through the skin will contribute to overall exposure. Contact with skin may cause an immediate allergic reaction in persons who may be sensitized by previous exposures. Symptoms may include an immediate rash, local redness, or itching of the skin.

Eye Contact: This product is an eye irritant. Exposure to the eye may cause symptoms which include a burning sensation, tearing, redness and swelling.

Ingestion: No adverse health effects are expected if a small amount of this product is accidentally ingested.

Effects of Long-Term (Chronic) Exposure: This product contains ingredients which have been known to cause skin sensitization in some people. Sensitization may occur after prolonged or repeated exposures to this product. Prolonged contact with skin may defat tissue causing dermatitis or aggravate existing skin problems.

Medical Conditions Aggravated By Exposure: Persons susceptible to skin problems may find that the use of this product will cause increased symptoms of existing skin problems.

3. Composition

3.1 Mixture composition

Component	CAS No	EINECS	% (w/w)	GHS Classification
Di-Hema Trimethylhexyl Dicarbamate			60 - 75	Skin Irritant (Category 2): H315 Skin Sensitizer (Category 1): H317 Eye Irritant (Category 2A): H319 STOT-SE (Category 3): H335
Hydroxypropyl Methacrylate	27813-02-1	248-666-3	7 – 15	Skin Sensitizer (Category 1): H317 Eye Irritant (Category 2A): H319
Hydroxycyclohexyl Phenyl Ketone	947-19-3	213-426-9	1 - 2	No GHS Classification
Trimethylbenzoyl Diphenylphosphine Oxide	75980-60-8	278-355-8	1 - 2	Skin Sensitizer (Category 1): H317 Reproductive Hazard (Category 2): H361 Chronic Aquatic Toxicity (Category 3): H412
HEMA (2-Hydroxyethyl Methacrylate)	868-77-9	212-782-2	0.2 – 20	Skin Irritant (Category 2): H315 Skin Sensitizer (Category 1): H317 Eye Irritant (Category 2A): H319
Bis- (glyceryl dimethacrylate) Pyromellitate	148019-46-9		0.2 – 1.0	Skin Irritant (Category 2): H315 Skin Sensitizer (Category 1): H317
P-Hydroxyanisole (4- Methoxyphenol)	150-76-5	205-769-8	< 0.01	Acute Toxicity Oral (Category 4): H302 Eye Irritant (Category 2A): H319 Acute Aquatic Toxicity (Category 3): H402 Chronic Aquatic Toxicity (Category 3): H412
HEMA Maleate	51978-15-5	257-569-5	2 - 5	Skin Irritant (Category 1B): H314 Serious Eye Damage (Category 1): H318 Skin Sensitizer (Category 1): H317
Maleic Acid	110-16-7	203-742-5	0.2 – 1.0	Acute Toxicity Oral (Category 4): H302 Skin Irritation (Category 2): H315 Skin Sensitization (Category 1): H317 STOT-SE (Category 3) H335
May contain the following				
Silica Silylate	68909-20-6		0.2 – 1.0	None assigned
Iron Oxide - CI 77491	1309-37-1	215-168-2	0-10	None assigned
Iron Oxide - CI 77492	51274-00-1	257-098-5	0-10	None assigned
Iron Oxide - CI 77499	12227-89-3	235-442-5	0-10	None assigned
Red 30 Lake - CI 73360	2379-74-0	219-163-6	0-10	None assigned
Red 7 Lake - CI 15850	5281-04-9	226-109-5	0-10	None assigned
Titanium Dioxide - CI 77891	13463-67-7	236-675-5	0-10	Carcinogenicity (Category 2): H351
Violet 2 - CI 60725	81-48-1	201-353-5	0-10	None assigned
Red 33 Lake - CI 17200	3567-66-6	222-656-9	0-10	None assigned

4. First Aid Measures

4.1 Description of First Aid Measures

General advice: Consult a physician. Show this safety data sheet to the physician in attendance. Move away from dangerous area. Remove contaminated clothing. Completely decontaminate clothing, shoes and leather goods before re-use or discard.

In case of eye contact: Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 20 to 30 minutes or until the chemical is removed, while holding the eyelid(s) open. Obtain medical attention immediately or transport to a medical facility and continue to flush the eyes en route.

In case of skin contact: Wash gently and thoroughly with water and non-abrasive soap for at least 20 minutes or until chemical is removed. If signs of sensitization or irritation occur, obtain medical advice.

If inhalation: Remove source of contamination or move victim to fresh air. If breathing is difficult, give artificial respiration. If breathing is difficult oxygen may be beneficial if administered by trained personnel, preferably on a doctor's advice. DO NOT allow the victim to move about unnecessarily. Consult a physician.

If ingestion: Ingestion unlikely. Never give anything by mouth if victim is rapidly losing consciousness. Have victim rinse mouth thoroughly with water. **Do not induce vomiting.** Dilute contents of stomach with 240 to 300 ml of water. If vomiting occurs naturally have victim lean forward to reduce risk of aspiration. Seek immediate medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Effects of Short-Term (Acute) Exposure:

Inhalation: Due to the low volatility of this product, no significant adverse health conditions are expected to occur during the proper use of this product. In rare cases some respiratory irritation may occur.

Skin Contact: It is expected that absorption through the skin will contribute to overall exposure. Contact with skin may cause an immediate allergic reaction in persons who may be sensitized by previous exposures. Symptoms may include an immediate rash, local redness, or itching of the skin.

Eye Contact: This product is an eye irritant. Exposure to the eye may cause symptoms which include a burning sensation, tearing, redness and swelling.

Ingestion: No adverse health effects are expected if a small amount of this product is accidentally ingested.

Effects of Long-Term (Chronic) Exposure: This product contains ingredients which have been known to cause skin sensitization in some people. Sensitization may occur after prolonged or repeated exposures to this product. Prolonged contact with skin may defat tissue causing dermatitis or aggravate existing skin problems.

Medical Conditions Aggravated By Exposure: Persons susceptible to skin problems may find that the use of this product will cause increased symptoms of existing skin problems.

4.3 Indication of any immediate medical attention and special treatment needed

In the event of an allergic reaction, immediate medical help is required. Allergic reactions may result in various health effects including respiration.

5. Fire Fighting Measures

5.1 Extinguishing Media

Suitable extinguishing media: Dry chemical, carbon dioxide, water spray, foam, or water fog.

5.2 Special hazards arising from mixture: Carbon dioxide, carbon monoxide, oxides of nitrogen, undetermined organic compounds in acrid smoke.

5.3 Advice for firefighters: Do not enter fire area without proper protection. Fight fire from a safe distance, upwind. Use of water may be ineffective due to low solubility. If water is used, direct fine spray or fog at fire to cool and extinguish flames.

5.4 Further Information:

Sensitivity to Impact: No

Sensitivity to Static Discharge: No

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) HAZARD INDEX:

HEALTH: 3

FLAMMABILITY: 1

REACTIVITY: 0

6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Respiratory Protection: Vapours will be generated particularly if product is atomized, or heated. If used or sprayed in an enclosed area, at a minimum use a NIOSH approved organic vapour respirator. When cartridge type respirators are used, ensure that the cartridges are changed frequently according to the manufacturer's recommendations. Respirator selection must be done by a qualified person and be based upon a risk assessment of the work activities and exposure levels. Respirators must be fit tested and users must be clean shaven where the respirator seals to face. Exposure must be kept at or below the applicable exposure limits and the maximum use concentration of the respirator must not be exceeded.

Skin protection: Depending upon the conditions of use, protective gloves and clothing to prevent skin contact.

Eye and Face Protection: Chemical splash goggles and/or face shield must be worn when a possibility exists for eye contact due to splashing or spraying liquid. Contact lenses should not be worn.

Footwear: No specific recommendation.

Other: Emergency eyes wash fountains should be available in vicinity of use. At minimum, an eye lavage kit should be kept on hand.

6.2 Environmental precautions

Ensure that any release of this material is contained to prevent leakage into waterways and sanitary sewers.

6.3 Methods and materials for containment and cleanup

Remedial Measures: Wash spill area with strong detergent and water solution, rinse with minimal water, if possible.

Large Spills: For large spills, dike area and prevent leakage into waterways or sanitary sewers. Recover using spark proof equipment and store in approved vented containers for re-use or disposal.

Small Spills: Small spills may be absorbed on an inert medium such as vermiculite or clay, then sweep into vented disposal containers.

6.4 Reference to other sections

For disposal, see section 13

7. Handling and Storage

7.1 Precautions for safe handling

Handling Procedures: Wear proper protective equipment when handling this material. Only use non-sparking tools when handling this material.

7.2 Conditions for safe storage, including incompatibilities

Storage: Store indoors in a well ventilated area where the storage temperature can be maintained between 1°C and 38°C. Storage above 38°C will result in reduced product life. Store in tightly closed containers away from heat, sparks, open flame, strong oxidizers, radiation and other initiators. Prevent contamination with foreign materials, including moisture.

7.3 Specific end use(s)

No other uses except those mentioned in Section 1.2

8. Exposure Controls, Personal Protection

8.1 Control parameters

Components with workplace control parameters

Note: Titanium dioxide has respiratory exposure controls, but since these components are bound into the product and are not capable of becoming airborne, exposure controls need not be listed.

8.2 Exposure controls

Engineering Controls: When using indoors, ensure adequate ventilation by using local exhaust. Mechanical ventilation is recommended for all indoor situations to control fugitive emissions. Electrical and mechanical equipment should be explosion proof.

Respiratory Protection: Vapours will be generated particularly if product is atomized, or heated. If used or sprayed in an enclosed area, at a minimum use a NIOSH approved organic vapour respirator. When cartridge type respirators are used, ensure that the cartridges are changed frequently according to the manufacturer's recommendations. Respirator selection must be done by a qualified person and be based upon a risk assessment of the work activities and exposure levels. Respirators must be fit tested and users must be clean shaven where the respirator seals to face. Exposure must be kept at or below the applicable exposure limits and the maximum use concentration of the respirator must not be exceeded.

Skin protection: Depending upon the conditions of use, protective gloves and clothing to prevent skin contact.

Eye and Face Protection: Chemical splash goggles and/or face shield must be worn when a possibility exists for eye contact due to splashing or spraying liquid. Contact lenses should not be worn.

Footwear: No specific recommendation.

Other: Emergency eyes wash fountains should be available in vicinity of use.

Control of environmental exposure

Prevent further leakage or spillage, if safe to do so. Do not let product enter drains.

9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance:	Viscous liquid, various colours
Odour:	Characteristic acrylic odour
Odour Threshold:	Not available
pH:	Not applicable
Melting Point/Freezing Point:	0°C
Initial Boiling Point:	131 °C
Flash Point:	>96.7 °C
Evaporation Rate:	Negligible
Flammability:	Not flammable
Upper Explosion Limit:	No data
Lower Explosion Limit:	No data
Vapour Pressure:	< 0.01 @ 20°C
Vapour Density:	No data
Relative Density:	1.15 @ 25°C (water=1)
Solubility:	Negligible in water
Partition Coefficient:	Not available
Autoignition Temperature:	No data
Decomposition Temperature:	No data
Viscosity:	No data
Explosive Properties:	Not explosive. Not expected to be sensitive to electrostatic discharge.
Oxidizing Properties:	No data

9.2 Other safety information: None

10. Stability and Reactivity

- 10.1 Reactivity**
Product may become reactive if inhibitor is depleted.
- 10.2 Chemical Stability**
Stable as supplied.
- 10.3 Possibility of hazardous reactions**
High temperatures, inhibitor depletion, accidental impurities, or exposure to radiation or oxidizers may initiate spontaneous polymerization, generating heat and pressure. Closed containers may rupture during hazardous polymerization.
- 10.4 Conditions to avoid**
Exposure to heat, light and moisture.
- 10.5 Incompatible materials**
Keep away from strong oxidizers and moisture.
- 10.6 Hazardous decomposition products**
Carbon monoxide, carbon dioxide and various oxides of nitrogen.

11. Toxicological Information

11.1 Information on toxicological effects

Note to reader: We do NOT test our products on animals. In compliance with current SDS preparation requirements, the values listed are published values for generic ingredients with known animal toxicity.

Acute toxicity

Component	LD ₅₀	LC ₅₀

X-Bond and Luxio Naked Bases

Di-Hema Trimethylhexyl Dicarbamate CAS No. Proprietary EINECS No. None	>5000 mg/kg (oral/rat)	N/av
2-Hydroxyethyl Methacrylate (HEMA) CAS No. 868-77-9 EINECS No. 212-782-2	5564 mg/kg (oral/rat) >3000 mg/kg (dermal/rabbit)	N/av
Hydroxypropyl Methacrylate CAS No. 27813-02-1 EINECS No. 248-666-3	11,200 mg/kg (oral/rat)	N/av
Trimethylbenzoyl Diphenylphosphine Oxide CAS No. 75980-60-8 EINECS No. 278-355-8	>5000 mg/kg (oral/rat) >2000 mg/kg (dermal/rabbit)	N/av
4- Methoxyphenol (p- Hydroxyanisole) CAS No. 150-76-5 EINECS No. 205-769-8	N/av	N/av
Bis- (glyceryl dimethacrylate) Pyromellitate CAS No. 148019-46-9 EINECS No. None	N/av	N/av
Maleic Acid CAS No. 110-16-7 EINECS No. 203-742-5	1091 mg/kg (oral/rat) 1560 mg/kg (dermal/rabbit)	>720 mg/m ³ Rat, 1 hour
Hydroxycyclohexyl Phenyl Ketone CAS No. 947-19-3 EINECS No. 213-426-9	2895 mg/kg (oral/rat)	N/av
HEMA Maleate CAS No. 51978-15-5 EINECS No. 257-569-5	N/av	N/av

ABBREVIATION KEY: N/p: not published, N/d: not determined, N/ap: not applicable, N/av: not available

Skin corrosion/irritation

Components of this mixture cause severe skin burns and eye damage, H314, Category 1, Warning

Serious eye damage/eye irritation

Components of this mixture cause serious eye damage, H318, Category 1, Warning

Respiratory or skin sensitization

Components of this mixture may cause skin sensitization, H317, Category 1, Warning

Germ Cell Mutagenicity

No information available

Carcinogenicity

Not classifiable as a human carcinogen. Titanium dioxide is present in the formulation but is not in a respirable form and cannot become airborne.

Reproductive toxicity

Components in this mixture are suspected of damaging fertility or the unborn child, H361, Category 2, Warning

Specific Target Organ Toxicity – Single exposure

Components of this mixture may cause respiratory irritation, H335, Category 3, Warning

Specific Target Organ Toxicity – Repeated exposure

No information available

Aspiration Hazard

No information available

Additional information

None

12. Ecological Information

12.1 Toxicity

To fish:

Hydroxypropyl methacrylate	LC ₅₀	48H	493 mg/L
2-Hydroxyethyl Methacrylate	LC ₅₀	96H	227 mg/L (Flathead Minnow)
4-Methoxyphenol	LC ₅₀	96H	28.5 mg/L (Rainbow Trout)
Trimethylbenzoyl diphenylphosphine oxide	LC ₅₀	48H	6.53 mg/L
Maleic Acid	LC ₅₀	96H	75 mg/L (Rainbow Trout)

To algae:

Hydroxypropyl methacrylate	EC ₅₀	72H	> 97 mg/L
2-Hydroxyethyl Methacrylate	EC ₅₀	72H	345 mg/L (Green Algae)
4-Methoxyphenol	No data available		
Trimethylbenzoyl diphenylphosphine oxide	EC ₅₀	72H	> 2.01 mg/L
Maleic Acid	EC ₅₀	72H	74.35 mg/L

To daphnia:

Hydroxypropyl methacrylate	EC ₅₀	48H	> 143 mg/L
2-Hydroxyethyl Methacrylate	EC ₅₀	48H	380 mg/L
4-Methoxyphenol	No data available		
Trimethylbenzoyl diphenylphosphine oxide	EC ₅₀	48H	3.53 mg/L
Maleic Acid	EC ₅₀	48H	42.81 mg/L

12.2 Persistence and degradability

Trimethylbenzoyl diphenylphosphine oxide is considered to be poorly biodegradable.

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Not conducted

12.6 Other adverse effects

No data available

13. Disposal Considerations

13.1 Waste treatment methods

Product:

Review federal, provincial or state, and local government requirements prior to disposal. Store material for disposal as indicated in Storage Conditions. Disposal by controlled incineration or by secure land fill may be acceptable.

Contaminated packaging

Dispose as above.

14. Transport Information

Transport of Dangerous Goods (TDG and CLR): Not regulated

United States Department of Transport (49CFR): Not regulated

International Air Transport Association (IATA): Not regulated

International Maritime Organization (IMO): Not regulated

15. Regulatory Information

CANADIAN FEDERAL REGULATIONS:

CEPA, DOMESTIC SUBSTANCES LIST: Listed

UNITED STATES – FEDERAL REGULATIONS:

TOXIC SUBSTANCES CONTROL ACT (TSCA): All components are listed in the inventory.

CALIFORNIA Proposition 65, Safe Drinking Water and Toxicity Enforcement Act, 1986:

No ingredients listed

OSHA, 29 CFR 1910, Subpart Z: Meets criteria for a hazardous substance.

CERCLA, 40 CFR 302: No ingredients listed

SARA 302, 40 CFR 355: No ingredients listed

SARA 313, 40 CFR 372: No ingredients listed

SARA 311/312, 40 CFR 370: Immediate (Acute) Health, Delayed (Chronic) Health

Massachusetts Right to Know: 4- Methoxyphenol (p- Hydroxyanisole), Maleic Acid

New Jersey Right to Know: 4- Methoxyphenol (p- Hydroxyanisole), 2-Hydroxyethyl Methacrylate (HEMA), Trimethylbenzoyl Diphenylphosphine Oxide, Maleic Acid, HEMA Maleate

Pennsylvania Right to Know: 4- Methoxyphenol (p- Hydroxyanisole), 2-Hydroxyethyl Methacrylate (HEMA), Trimethylbenzoyl Diphenylphosphine Oxide, Maleic Acid, HEMA Maleate

16. Other Information

Original Preparation Date: April 4, 2017

Prepared by: KJ Pearson, West Vancouver, BC, V7W 1P3

Disclaimer: This Safety Data Sheet (SDS) was prepared using information provided by CCINFO, ingredient supplier SDS and other relevant sources. This product has been classified using weight of evidence, expert judgment and previous testing as per Part 1.3 of the Fifth Edition of The Globally Harmonized System of Classification and Labelling of Chemicals (GHS). The information in this SDS is offered for your consideration and guidance when exposed to this product. Haigh Industries Inc. expressly disclaims all expressed or implied warranties and assumes no responsibilities for the accuracy or completeness of the data contained herein. The data in this SDS does not apply to use with any other product or in any other process.

This Safety Data Sheet may not be changed, or altered in any way without the expressed knowledge and permission of Haigh Industries Inc.

Revisions: June 30, 2022