

**Date: December 2, 2009**

**Former date: New**

**1. IDENTIFICATION OF THE CHEMICAL AND OF MANUFACTURER, IMPORTER OR OTHER UNDERTAKING**

**1.1 Identification of the substance or preparation**

Trade name: PROTEIN BOND  
Code of the preparation: 120209

**Use of the chemical**

- 1.1.1 The intended uses of the chemical: This product is for bonding artificial nails.
- 1.1.2 Standard industrial classification (SIC): 2821
- 1.1.3 Use categories: Artificial fingernail preparation.
- 1.1.4 The chemical cannot be used by the general public.
- 1.1.5 The chemical is used by professionals only.

**1.2 Identification of the manufacture, importer or other undertaking**

1.2.1 Young Nails, Inc.  
1149 N. Patt Street  
Anaheim, CA 92801  
1-800-777-9170  
[www.youngnails.com](http://www.youngnails.com)

**1.4 Emergency telephone**

**FOR CHEMICAL EMERGENCY OR INGESTION 24/7  
CALL INFOTRAC (USA) 1-800-535-5053 OR  
INTERNATIONAL CALL COLLECT 1-352-323-3500**

**2. COMPOSITION AND INFORMATION ON INGREDIENTS**

**2.1 Hazardous Ingredients**

2.1.1 Name	2.1.2 CAS #	2.1.3 EINECS #	2.1.3 %
Methyl ethyl ketone	78-93-3	201-159-0	80-85
2,2-bis-(4-(2-hydroxy 3-methacryoxypropoxy)BIS-GMA)	1565-94-2	216-367-7	5-10
2-hydroxy ethyl methacrylate	868-77-9	205-769-8	5-10
N,N-dimethyl-p-toluidine	99-97-8	202-805-4	<1

- 2.1.5 Confidential ingredients: None.
- 2.1.6 A substance not dangerous listed as confidential: None.
- 2.1.7 Other information: None.

**3 HAZARDOUS IDENTIFICATION**




Flammable



Irritant

Human

**FLAMMABLE LIQUID & VAPOUR!**  WHMIS label  
Avoid prolonged or repeated breathing of the vapours.  
This product may cause eye and skin irritation.

**Safety**

It may be an irritant to persons with a pre-existing skin conditions and cause aggravation with prolonged exposure. Keep out of eyes. Do not swallow.

**Ecological**

This product is likely to under go long term degradation.

**4. FIRST AID MEASURES**

- 4.1 Special instructions: May cause eye irritation, flush with water for at least 15 minutes. Seek medical attention if person is experiencing any irritation.
- 4.2 Inhalation: Maybe a mild irritant to respiratory tract.
- 4.3 Ingestion: May cause irritation, do not induce vomiting, and seek medical attention.
- 4.4 Skin contact: May irritate skin of person with a previous dermatitis problem.

**5. FIRE-FIGHTING MEASURES**

- 5.1 Suitable extinguishing media: Use appropriate method for surrounding fire (dry chemical, and carbon dioxide).
- 5.2 Extinguishing media must not be used for safety rea.
- 5.3 Special protective equipment for fire-fighters: Wear full bunker gear with SCBA:
- 5.4 Other instructions: Let burn with black smoke.

**6. ACCIDENTAL RELEASE MEASURES**

- 6.1 Personal precautions: Wash hands thoroughly after contact. Remove all sources of ignition.
- 6.2 Environmental precautions: Check with federal, territorial, state and local agencies.
- 6.3 Methods for cleaning up: Absorb liquid with an inert material and dispose in proper container.
- 6.4 Other instructions: Material is a liquid.

**7. HANDLING AND STORAGE**

- 7.1 Handling: Store in original container with cap tightened when not in use.
- 7.2 Storage: Keep in cool dry area (24 °C or 75 °F). Keep away from children.
- 7.3 Specific use(s): Nail bond.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

- 8.1 Exposure limit values
  - 8.1.1 Other limit values: OSHA TWA (USA) Methyl ethyl ketone 200 ppm
  - 8.1.2 Limit values in other countries: Methyl ethyl ketone 200 ppm
- 8.2 Exposure controls
  - 8.2.1 Occupational exposure controls: Work in well-ventilated area.
  - 8.2.2 Respiratory protection: Work in well-ventilated area
  - 8.2.3 Hand protection: Protective gloves recommended with extended use.
  - 8.2.4 Eye protection: Splash proof goggles of safety glasses. If used in production facility have eye wash and shower station.
  - 8.2.5 Skin protection: Always protect your skin when working with chemicals.
  - 8.2.6 Environmental exposure controls: None

**9. PHYSICAL AND CHEMICAL PROPERTIES**

9.1 General information (physical state, colour and odour). The product is a clear liquid and an odour of esters.

9.2 Important health, safety and environmental information

9.2.1	pH:	NA
9.2.2	Boiling point/boiling range:	120 °C (248 °F)
9.2.3	Flash point:	22 °C (71.6 °F)
9.2.4	Auto-ignition temperature	400 °C (752 °F)
9.2.5	Flammability :	Liquid with low flash point.
9.2.5.1	Lower explosive limit:	2.0 %
9.2.5.2	Upper exposure limit:	2.5 %.
9.2.6	Oxidising properties:	Not an oxidiser.
9.2.7	Vapour pressure:	360 torr @ 40 °C (104 °F)

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9.2.8	Specific gravity:	0.94
9.2.9	Solubility (water):	Insoluble.
9.2.9.1	Evapouration rate (butyl acetate=1):	> 1.0
9.2.10	Viscosity:	15 cST
9.2.11	Vapour density (air=1):	> 1.0

9.3 Other information

**10. STABILITY AND REACTIVITY**

10.1	Conditions to avoid:	Do not store above 75 °F or 24 °C. Avoid the use of UV light.
10.2	Materials to avoid:	Strong oxidising or reducing agents, and peroxides.
10.3	Hazardous decomposition products:	Oxides of carbon.
10.4	Hazardous polymerization:	May occur.
10.5	Other:	Avoid temperatures above 24 °C or 75 °F.

**11. TOXICOLOGICAL INFORMATION**

11.1	Acute toxicity:	None expected.
11.2	Irritation and corrosiveness:	Not corrosive, a mild-irritant to eyes.
11.3	Sentisation:	May be sensitive with pre-existing dermatitis.
11.4	Other information on health effects:	Ingestion of liquid or inhalation of vapour may affect respiratory tract.

**12. ECOLOGICAL INFORMATION**

12.1	Ecotoxicity: Not available	
12.1.1	Aquatic toxicity:	Bio-degradable long term.
12.1.2	Toxic to other organisms:	None known.
12.2	Mobility:	Not very mobile in water phase.
12.3	Persistence and degradability:	
12.3.1	Biodegradation:	Yes, long term.
12.3.2	Chemical degradation:	Yes.
12.4	Bioaccumulation potential:	Low to medium.
12.5	Other adverse effects:	None known.

**13. DISPOSAL CONSIDERATIONS**

Dispose in accord with local, state and National regulations.

**14. TRANSPORTATION INFORMATION**

14.1	UN number:	UN1993
14.2	Packing group:	3
14.3	Land transport	
14.3.1	Transport class:	3
14.3.2	Risk code:	Flammable
14.3.3	Name according to bill of freight: Protein Bond	
14.3.4	Shipping description:	Flammable liquid, N.O.S., (Methyl ethyl ketone), UN1993, 3, II
14.3.5	Limited quantity:	Flammable liquid, N.O.S., (Methyl ethyl ketone), UN1993, 3, II, LTD QTY
14.3.6	Packaging limitation:	Inner packaging limited to 1.0 liter and 0.26 gallons.

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**14.4 Sea transport**

- 14.4.1 IMDG class: 3
- 14.4.2 Correct technical name: Methyl ethyl ketone
- 14.4.3 Shipping description: UN1993, Flammable liquid, N.O.S., (Methyl ethyl ketone), 3, II
- 14.4.4 Other information: Use P001 with a limit of 1 liter or 0.3 gallon for limited quantity exception.

**14.5 Air transport**

- 14.5.1 ICAO/IATA class: 3
- 14.5.2 Correct technical name: Methyl ethyl ketone
- 14.5.3 Shipping description: UN1993, Flammable liquid, N.O.S., (Methyl ethyl ketone), 3, II
- 14.5.4 Packing instruction: Use 305, maximum capacity 5liter or 1.32 gallons.
- 14.5.5 Other information: LTD QTY exception available using packing instruction Y305 with maximum capacity 1 liter or 0.3 gallon.

**15. REGULATORY INFORMATION**

**15.1 Information on the warning label: FLAMMABLE**

- 15.1.1 Letter code on warning symbol and indications of danger for the preparation: Flammable F and Irritant Xi.
- 15.1.2 Names of the ingredients given on the label: Methyl ethyl ketone.
- 15.1.3 WHMIS: Flammable, F and Irritant In.
- 15.1.4 R phrases: R11, highly flammable; R36, irritating to eyes; R43, may cause sensitization by skin contact; R66, Repeated exposure may cause skin dryness or cracking and R67, vapours may cause drowsiness and dizziness.
- 15.1.5 S phrases: S16, Keep away from sources of ignition; S26, in case of contact with eyesm rinse immediately with plenty of water and seek medical advice; S28, after contact with skin, wash immediately with plenty of soapy water; S33, take precautionary measures against static discharges; S36, wear suitable protective clothing; and S37, wear suitable gloves.

**16. REGULATORY INFORMATION**

**16.1.1 National Fire Protection Association (NFPA)**

Hazardous Materials Identification System (HMIS)

NFPA		HMIS
	0 Least	
2 Health	1 Slight	12 Health
3 Fire	2 Moderate	3 Fire
1 Instability	3 High	1 Reactivity
	4 Severe	E PPE

- 16.1.2 List of relevant R phrases: R11, R36, R43, R36 and R67.
- 16.1.3 Training advice S phrases: S16, S26/28, S33, and S36/37.
- 16.1.4 Restrictions on use: Professional use only.
- 16.1.5 Sources of key data used: EU, EEC Directives on the Control of Dangerous Substances and Preparations (67/548/EEC), Council Directive 88/379/EEC, WHMIS, NIOSH and OSHA 29 CFR Part 1910.1200.
- 16.1.6 This product contains no Prop 65 materials.
- 16.1.7 This is a new Safety Data Sheet to meet new format.
- 16.1.8 Methyl ethyl ketone is an ingredient listed in the following inventories: USA (TSCA); China (CI); Korea (ECL); Canada (DSL); Philippines (PICCS); Europe (EINECS); Japan (MITI) and Australia (AICS).
- 16.1.9 Methyl ethyl ketone is listed for right to know in CA, FL, MA, MN, NJ & PA.

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**PROTEIN BOND**

16.1.10	Abbreviations:	
	AICS	Australian Inventory of Chemical Substances
	CAS #	Chemical Abstract Service Number
	cST	centistokes
	°C	Celsius temperature scale
	CI	China
	DSL	Canada
	ECL	Korean Existing Chemicals List
	EEC	European Economic Commission
	ENCS	Japanese Existing and New Chemical List
	EINECS #	European Inventory of Existing Chemical Substances Number
	EU	European Union
	°F	Fahrenheit
	Israel	2001 proposed list of chemical substances to be regulated under Israel Hazardous Substances Law and Regulations List
	MAC	Netherlands
	MAK	Germany
	MITI	Ministry of International trade and Industry
	NA	Not applicable
	MITI	Japan
	ND	Not determined
	NE	None established
	PICCS	Philippines
	PPE	Personal Protective Equipment
	Prop.	Proprietary
	SUS	Saybolt Universal Viscosity
	SWISS	Giftliste 1
	SWISS	Inventory of Notified New Substances
	TSCA	Toxic Substance Control Act
	(Taiwan)	List of Toxic Chemical Substances regulated under Taiwan Toxic Chemical Substances Control Act of 1086
	UK	United Kingdom
	USA	United States

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16.2 Information which has been added, deleted or revised: **New SDS**

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**Reviewed by Young Nails, Inc.**  
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