SAFETY DATA SHEET

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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

1.1. Product identifier

Item name: **ForPro Expert Advanced Formula Primer**

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

Primer for acrylic nail system, cosmetic.

1.3. Details of the supplier of the safety data sheet

Responsible person:	TNG Worldwide, Inc. 29683 W K Smith Dr. New Hudson, MI 48165 248-347-7700 www.tngworldwide.com

1.4. Emergency telephone number

Within the US & Canada: Chemtrec 1-800-424-9300; outside the US & Canada: 1-703-741-5971, collect calls accepted

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

According to regulation (EC) No 1272/2008:	**Flam. Liq. 2, H225** **Skin Irrit. 2; H315** **Skin Sens. 1; H317** **Eye Dam. 1; H318** **Eye Irrit. 2 , H319** **STOT SE 3, H336**
Important adverse physicochemical, human health and environmental effects:	**H225 Highly flammable liquid and vapour.** **H315 Causes skin irritation.** **H317 May cause an allergic skin reaction.** **H318 Causes serious eye damage.** **H319 Causes serious eye irritation.** **H336 May cause drowsiness or dizziness.**

2.2. Label elements

According to regulation (EC) No 1272/2008:

DANGER!

H225 Highly flammable liquid and vapour.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness
EUH066 Repeated exposure may cause skin dryness or cracking

	P101 If medical advice is needed, have product container or label at hand. P280 Wear protective gloves/protective clothing/eye protection/face protection. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 +P313 If eye irritation persists: Get medical advice/attention. P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P312 Call a POISON CENTER or doctor/physician if you feel unwell. P501 Dispose of contents/container to in accordance with local/regional/national/ international regulation.
2.3. Other hazards	
	Product does not meet the criteria for PBT or vPvB in accordance with Annex XIII of REACH (Regulation (EC) No 1907/2006).

See section 11 for more detailed information on health effects and symptoms.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances	No relevant.
3.2. Mixtures	Blend of solvent and other ingredients.

Ingredient name (INCI)	CAS Numbers:	EINECS:	Conc.%	Classification Regulation (EC) 1272/2008 (CLP)	Type
ETHYL ACETATE	141-78-6	205-500-4	75-100%	Flam. Liq. 2 H225 Eye Irrit. 2; H319 STOT SE 3 H336 EUH066	[1] [2]
ISOPROPYLIDENEDIPHENYL BISOXYHYDROXYPROPYL METHACRYLATE	1565-94-2	216-367-7	5-10%	Eye Dam. 1; H318	[1]
HEMA (2-hydroxyethyl methacrylate)	868-77-9	212-782-2	5-10%	Skin Irrit. 2; H315 Skin Sens. 1; H317 Eye Irrit. 2; H319	[1]

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.
See section 16 for the full text of the R and H phrases declared above.
Occupational exposure limits, if available, are listed in section 8.
[1] Substance classified with a health or environmental hazard
[2] Substance with a workplace exposure limit
[3] PBT-substance
[4] vPvB-substance

4. FIRST AID MEASURES

4.1. Description of first aid measures	
General advice:	Remove contaminated clothing.
Inhalation:	Remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Get medical attention.
Skin contact:	Remove contaminated clothing and wash before reuse. Remove and destroy contaminated shoes. Flush with plenty of water. Obtain medical attention if irritation persists.
Eye contact:	Immediately wash the eyes with plenty of water for at least 15 min holding the eye open. Obtain medical attention urgently..
Ingestion:	Do not INDUCE VOMITING. Rinse mouth with water. Get medical attention IMMEDIATELY**.**
4.2. Most important symptoms and effects, both acute and delayed	
Inhalation:	May cause nose and throat irritation. May affect the brain or nervous system, causing dizziness, headache or nausea. Harmful if inhaled. Narcosis, loss of coordination, vomiting, difficulty with speech, reduced visibility, fatigue, cough, unconsciousness.
Skin contact:	Causes skin irritation. Swelling and redness of skin, dermatitis, drowsiness
Eye contact:	Cause eye irritation. conjunctivitis, lacrimation, redness and swelling of eyes,

Ingestion:	Harmful if swallowed, abdominal pain
Repeated overexposure	Lung damage, liver abnormalities, kidney damage, central nervous system damage, blood effects.
4.3. Indication of any immediate medical attention and special treatment needed	
Specific treatments:	Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

See section 11 for more detailed information on health effects and symptoms.

5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media	
Suitable extinguishing media:	Carbon dioxide, foam, powder.
Unsuitable extinguishing media:	Water.
5.2. Special hazards arising from the substance or mixture	
	Water may be ineffective in fighting fire. If water is used to cool closed containers to prevent pressure build-up, fog nozzles are preferred. Full protective equipment, including self-contained breathing apparatus is needed to protect fire-fighters from exposure to coating's hazardous ingredients and hazardous decomposition products.
5.3. Advice for firefighters	
	Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear. During emergency conditions, overexposure to decomposition products may cause a health hazard; symptoms may not be immediately apparent. Obtain medical attention.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures	
	Avoid contact with skin and eyes. Wear protective equipment. Keep away from heat and sources of ignition. Provide adequate ventilation
6.2. Environmental precautions	
	Do not empty into drains / surface water / ground water. Prevent further leakage or spillage.
6.3. Methods and material for containment and cleaning up	
	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal. Dispose of in accordance with local regulations.
6.4. Reference to other sections	
	See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

7. HANDLING AND STORAGE

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1. Precautions for safe handling	
Protective measures:	Avoid inhalation, skin and eye contact.
Advice on general occupational hygiene:	Good industrial hygiene practices should be observed. Provide sufficient air exchange and/or exhaust in work rooms. Wash hands before work breaks and after finishing work. Do not eat, drink or smoke while working. Take off all contaminated clothing immediately. See also Section 8 for additional information on hygiene measures.
7.2. Conditions for safe storage, including any incompatibilities	
Storage:	Store in well-ventilated area. Keep containers (solvent resistant) closed when not in use. Store away from ignition sources. All equipment should be grounded. Avoid strong oxidizing agents, store in a clean, dry area. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to

	prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. Empty container may retain product residues (vapour or liquid).
7.3. Specific end use(s)	
Industrial sector specific solutions:	**Product is for professional use only.**

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

8.1 Control parameters	
Occupational exposure limits	Limit values are laid down throughout the EU, but each Member State establishes its own national OELs, often going beyond EU legislation. OELs are set by competent national authorities and other relevant institutions. **United Kingdom (HSE, 2011):** **ETHYL ACETATE:** Long-term exposure limit, 8-hr TWA reference period: 200ppm. Short-term exposure limit, 15 minute reference period: 400 ppm.
Recommended monitoring Procedures:	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.
8.2 Manufacturer: Exposure controls	
Appropriate engineering Controls:	Ensure good ventilation/extraction.
Individual protection measures:	
Hygiene measures:	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.
Respiratory protection	 Ensure adequate ventilation. An approved mask or respirator fitted with an organic vapour cartridge should be worn if the product is used in a poorly ventilated area. Filter type: A
Eye/face protection:	 Safety glasses with sideshields or chemical safety goggles should be worn if there is a risk of splashing.
Skin protection:	 Chemical-resistant protective gloves (EN 374). Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374): nitrile rubber (NBR; >= 0.4 mm thickness). Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374): nitrile rubber (NBR; >= 0.4 mm thickness). This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced. Wear suitable protective clothing.
Environmental exposure controls:	
	According to available technology.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties	
Appearance	
Physical state	Liquid
Colour	Transparent
Odour	Not available.
Odour threshold	Not available.
pH at 25 °C	Not applicable.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	77 °C at 1013 hPa (Ethyl Acetate) 77 to 130 °C
Flash point	-5 °C closed cup
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive limits	Ethyl Acetate: 11.0/2.2
Vapour pressure	100 (20°C) (Ethyl Acetate)
Vapour density	3.04 (Ethyl Acetate)
Specific gravity	Not available.
Solubility(ies)	Insoluble in water. Soluble in solvent.
Partition coefficient: n-octanol/water	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Evaporation Rate	Slower than ether
Explosive properties	Not available.
Oxidising properties	Not available
9.2. Other information	
Impurity	Not available

10. STABILITY AND REACTIVITY

10.1. Reactivity	
	No hazardous reactions if stored and handled as prescribed/indicated.
10.2. Chemical stability	
	Stable under recommended storage conditions.
10.3. Possibility of hazardous reactions	
	Material WILL NOT undergo hazardous polymerization.
10.4. Conditions to avoid	
	AVOID Heat, sparks, open flame.
10.5. Incompatible materials	
	None if used properly.
10.6. Hazardous decomposition products	
	Methane, oxides of nitrogen. Carboxylic acids, various hydrocarbons, oxides of carbon, aldehydes, hydrogen cyanide, acids.

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Product:				
Ingredients:				
Acute toxicity:	**Result**	**Species**	**Dose**	**Exposure**
ETHYL ACETATE	LD50 Oral	Rat	12.2 mL/kg bw	
	LC50 inhalation	Rat	> 21 mg/L air (analytical)	
	LD50 Dermal	Rabbit	> 16 mL/kg bw	24 h

ISOPROPYLIDENEDIPHENYL BISOXYHYDROXYPROPYL METHACRYLATE	LD50 Oral	Rat	No data available.	
	LC50 inhalation	Rat	No data available.	
	LD50 Dermal	Rabbit	No data available.	
HEMA (2-hydroxyethyl methacrylate)	LD50 Oral	Rat	LD50=5564 mg/kg bw	24 h
	LC50 inhalation	Rat	No data available	
	LD50 Dermal	Rabbit	LD50 >5000 mg/kg /bw	

Eye irritation:			
ETHYL ACETATE	New Zealand white rabbits were exposed to 0.1 mL of undiluted n-Butyl acetate and were observed for up to 14 days where necessary. Overall no iritis occurred and only barely perceptible effects were seen on the cornea (score:1) as well as the conjunctivae (redness score:1, chemosis score: 1), which were all reversible within a maximum of 14 days (ECETOC, 1998). EYE IRRIT. 2 H319.		
ISOPROPYLIDENEDIPHENYL BISOXYHYDROXYPROPYL METHACRYLATE	Eye Dam. 1; H318		
HEMA (2-hydroxyethyl methacrylate)	Slightly irritant		
Skin irritation/ corrosion:			
ETHYL ACETATE	A 4 -hour occlusive treatment of 6 rabbits with 0.5 mL of the test item similar to OECD TG 404 did not induce any erythema nor edema, therefore the test item does not reveal any irritating potential under the conditions tested (Myers et al., 1987).		
ISOPROPYLIDENEDIPHENYL BISOXYHYDROXYPROPYL METHACRYLATE	No data available.		
HEMA (2-hydroxyethyl methacrylate)	Slightly irritant		
Sensitisation:			
ETHYL ACETATE	0% of the test animals were sensitized by n-butyl acetate (Buehler test)		
ISOPROPYLIDENEDIPHENYL BISOXYHYDROXYPROPYL METHACRYLATE	No data available.		
HEMA (2-hydroxyethyl methacrylate)	Epidemiological data on human sensitivity.		
Repeated dose toxicity:			
ETHYL ACETATE	NOAEC, inhal.	Rat	500 ppm (2.4 mg/L) Bernard and David, 1996; David et al., 2001).
ISOPROPYLIDENEDIPHENYL BISOXYHYDROXYPROPYL METHACRYLATE	NOAEL, oral.	Rat	No data available.
HEMA (2-hydroxyethyl methacrylate)	NOAEL	Rat	<30 mg/kg/day (oral)
Carcinogenicity:	No known effect according to our database.		
Mutagenicity:	No known effect according to our database.		
Toxicity for reproduction:	No known effect according to our database.		
Potential acute health effects			
Eye contact:	Irritation, conjunctivitis.		
Inhalation:	Irritation, coughing, shortness of breath, narcotic effect.		
Skin contact:	Redness, inflammation. Rash, Urticaria.		
Ingestion:	Gastrointestinal symptoms, such as nausea, vomiting, abdominal pain, and diarrhea could develop.		
Symptoms related to the physical, chemical and toxicological characteristics			
Eye contact:	No specific data.		
Inhalation:	No specific data.		
Skin contact:	No specific data.		
Ingestion:	No specific data.		
Delayed and immediate effects and also chronic effects from short and long term exposure			
Short term exposure:			
Potential immediate effects:	Not available.		
Potential delayed effects:	Not available.		
Long term exposure:	Not available.		
Potential immediate effects:	Not available.		
Potential delayed effects:	Not available.		
Potential chronic health effects:	Not available.		

Conclusion/Summary	
General	No known significant effects or critical hazards.
Carcinogenicity	No known significant effects or critical hazards.
Mutagenicity	No known significant effects or critical hazards.
Teratogenicity	No known significant effects or critical hazards.
Developmental effects	No known significant effects or critical hazards.
Fertility effects	No known significant effects or critical hazards.
11.2. Other information	
	Not available.

12. ECOLOGICAL INFORMATION

12.1. Toxicity						
Aquatic toxicity						
ETHYL ACETATE	Pimephales promelas	freshwater	96 h	LC50	230 mg/L	nominal
ISOPROPYLIDENEDIPHENYL BISOXYHYDROXYPROPYL METHACRYLATE	No data available.					
HEMA (2-hydroxyethyl methacrylate)	Oryzias latipes	freshwater	96 h	LC50	>100 mg/L.	
12.2. Persistence and degradability						
	Readily biodegradable.					
12.3. Bioaccumulative potential						
	Low.					
12.4. Mobility in soil						
	Not available					
12.5. Results of PBT and vPvB assessment						
	Regarding all available data on biotic and abiotic degradation, bioaccumulation and toxicity it can be stated that the substance does not fulfil the PBT criteria (not PBT) and not the vPvB criteria (not vPvB). .					
12.6. Other adverse effects						
	No known significant effects or critical hazards.					

13. DISPOSAL CONSIDERATIONS

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1. Waste treatment methods	
Product:	
Methods of disposal:	Waste must be disposed of in accordance with federal, state and local environmental control regulations. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
Hazardous waste:	Within the present knowledge of the supplier, this product is regarded as hazardous waste, as defined by EU Directive 91/689/EEC.
European waste catalogue (EWC):	20 01 13* solvents
Packaging:	
Methods of disposal:	The generation of waste should be avoided or minimized wherever possible. Packaging: IBC container, plastic drum. Waste packaging should be recycled.
Special precautions:	This material and its container must be disposed of in a safe way.

14. TRANSPORT INFORMATION

This **preparation is classified** as dangerous according to international transport regulations (ADR/RID, IMDG or ICAO/IATA).
International transport regulations:

	ADR/RID	ADN	IMDG	IATA
14.1. UN number	**UN1993**	**UN1993**	**UN1993**	**UN1993**
14.2. UN proper shipping name	FLAMMABLE LIQUID, N.O.S (ETHYL ACETATE)			

14.3. Transport hazard class(es)	 3	 3	 3	 3
14.4. Packing group	II	II	II	II
14.5. Environmental hazards	None	None	None	None
14.6. Special precautions for user	**Flash point: -5 °C**			
14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	-			

15. REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture	
EU Regulation (EC) No. 1907/2006 (REACH):	
Annex XIV - List of substances subject to authorization:	Substances of very high concern: None of the components are listed.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles:	Not applicable.
15.2. Chemical safety assessment	
Chemical Safety Assessment following regulation 1907/2006/EC:	A Chemical Safety Assessment has not been carried out.

16. OTHER INFORMATION

Abbreviations and acronyms:	
Full text of abbreviations	CLP: Classification, Labelling and Packaging Regulation [Regulation (EC) No.1272/2008] ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road RID: International Rule for Transport of Dangerous Substances by Railway IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association CAS: Chemical Abstracts Service EINECS: European Inventory of Existing Commercial chemical Substances LC50: Median lethal concentration LD50: Median lethal dose REACH: Registration, Evaluation and Authorisation of Chemicals PBT: Persistent, bio-accumulative and toxic vPvB: Very persistent, very bio-accumulative
Full text of classifications and H statements [CLP/GHS]:	H225 Highly flammable liquid and vapour. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness.
Classification system	**Classification for health effects:** conventional (calculation) method is used. Skin Irrit. 2; H315 Skin Sens. 1; H317 Eye Dam. 1; H318 Eye Irrit. 2 , H319 STOT SE 3, H336 **Classification for physico-chemical effects:**

	FLAM. LIQ. 2 H225: Flash point < 23 °C and initial boiling point > 35 oC (Physical data). **Classification for environmental effects:** conventional (calculation) method is used. Not applicable.
Training advice:	
	In addition to health, safety and environmental training programs for their workers, companies must ensure that workers read, understand and apply the requirements of this SDS.
Used literature:	
	European Chemical Agency's homepage (http://echa.europa.eu/). Safety data sheets of individual components.
DISCLAIMER OF LIABILITY:	
	The information in this MSDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or method of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS/SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS/SDS information may not be applicable.

END OF SAFETY DATA SHEET