

Material Safety Data Sheet **PRO-TECH SYSTEM NATURAL NAIL STRENGTHENER** Page 1 of 6

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/ PREPARATION AND OF THE COMPANY/ UNDERTAKING

Product Name: PRO-TECH SYSTEM NATURAL NAIL STRENGTHENER
Date: 09-29-2000
Chemical Name: NAIL LACQUER
MSDS Prepared by: INM PRODUCTION
Family: TOP COAT
Manufacturer: INTERNATIONAL NAIL MANUFACTURERS
 1221 N. LAKEVIEW AVENUE, ANAHEIM, CALIFORNIA 92807
Product Use: NAIL TOP COAT **Emergency Phone Numbers:** (800) 535 - 5053
Product #: S401100 **Information Contacts:** 800.541.9838

SECTION 2: COMPOSITION/ INFORMATION ON INGREDIENTS

Chemical Identity	CAS Numbers	EINECS#	INCI Name	Exposure Limits		Carcinogen	%
				OSHA TWA/STEL	ACGIH TWA/STEL		
Ethyl Acetate	141-78-6	205-500-4	Ethyl Acetate	400 ppm	400 ppm	Not Listed	35-40
Toluene	108-88-3	203-625-9	Toluene	200ppm	50ppm	3/No/No	30-35
n-Butyl Acetate	123-86-4	204-658-1	Butyl Acetate	150 ppm	150 ppm	Not Listed	20-35
Isopropyl Alcohol	67-63-0	200-661-7	Isopropyl Alcohol	400 ppm	400 ppm	3/no/no	5-15
Methyl Ethyl Ketone	78-93-3	201-159-0	MEK	200 ppm	200 ppm	Not Listed	5-15
Nitrocellulose	9004-70-0	N/E	Collodion	400 ppm	400 ppm	Not Listed	5-15
Tosyl Amide/ Formaldehyde resin	25035-71-6	N/E	Tosylamide/ Formaldehyde Resin	N/E	N/E	Not Listed	0-1

N/E - None Established
 N/R - Not Reviewed
 N/DA - No Data Available
 N/A - Not Applicable

Hazard Symbols: F, Xi **Risk Phrases:** R11, R20, R36/37/38 **Safety Phrases:** S7/9, S16, S26, S33, S36/37, S45, S61

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

This information is based on findings from related or similar materials.

- Flammable liquid and vapor!**
- May cause allergic skin reaction.
- May cause eye irritation.
- May cause respiratory tract irritation.

Potential Health Effects, Signs and Symptoms of Exposure:

Primary Route of Entry: Inhalation, skin contact, eye contact
Eye: Exposure causes eye irritation. Symptoms include stinging, tearing, redness and swelling.
Skin: Can cause skin irritation. Prolonged or repeated contact may dry the skin. Symptoms may include redness, burning, drying and cracking, and skin burns.

Ingestion	Swallowing small amounts during normal handling is not likely to cause harmful effects; swallowing large amounts may be harmful. This material can get into the lungs during swallowing or vomiting.
Inhalation	Vapor and mist are irritating to mucous membrane. Breathing small amounts during normal handling is not likely to cause harmful effects. Breathing large amounts may be harmful. Symptoms usually occur at air concentrations higher than the recommended exposure limits.
Sub-Chronic Effects	It may cause headaches, nausea, vomiting and narcotic effect if over-exposed.

NOTE: Refer to Section 11, Toxicological Information for Details

SECTION 4: FIRST AID MEASURES

First Aid for Eye	If symptoms develop, move individual away from exposure and into fresh air. Flush eyes gently with water while holding eyelids apart. If symptoms persist or there is any visual difficulty, seek medical attention.
First Aid for Skin	Remove contaminated clothing. Wash exposed area with soap and water. If symptoms persist, seek medical attention.
First Aid for Inhalation	Remove to fresh air. If breathing is difficult, administer oxygen. If symptoms persist, seek medical attention.
First Aid for Ingestion	If individual is drowsy or unconscious. do not give anything by mouth; place individual on the left side with the head down. Seek medical attention for advice about whether to induce vomiting. If possible, do not leave individual unattended.

SECTION 5: FIRE FIGHTING MEASURES

Flash Point (°F/°C) TAG Closed: 68°F/20°C	Flammable Limit (vol%) 400 ppm	Auto-ignition Temperature (vol%) N/DA
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Method:

Extinguishing Media: Fire Fighting Instructions:	Foam, dry chemical, cold water spray.
Unusual Hazards:	Wear self-contained breathing apparatus and protective clothing. USE WATER WITH CAUTION. Use water spray to keep fire-exposed containers cool. Water may be ineffective in fighting the fire. Fight fire from a safe distance and protected location. Flammable. When exposed to heat and flame, material is a fire explosion hazard. It may produce toxic products CO, Carbon dioxide and oxides of nitrogen. Vapors may cause a flash fire or ignite explosively. Vapors may travel considerable distance to a source of ignition and flash back. Prevent buildup of vapors or gases to explosive concentrations.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Spill or Release Procedures:	Eliminate all sources of heat and ignition. Use absorbent material for spills and dike it, wash spill material into retaining containers. Place containers in a well ventilated area. Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations. Keep unnecessary and unprotected personnel from entering. Contain and recover liquid when possible. Use non-sparking tools and equipment. Collect liquid in an appropriate container or absorb with an inert material (e. g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as sawdust. Do not flush
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to sewer! US Regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities. The toll free number for the US Coast Guard National Response Center is (800) 424-8802. EU Regulations require the consultation of Directive 98/24/EC. If a leak or spill has not ignited, use water spray to disperse the vapors, to protect personnel attempting to stop leak, and to flush spills away from exposures.

SECTION 7: HANDLING AND STORAGE

Handling:	Keep containers cool and dry. Keep away from heat, light and ignition sources. Avoid breathing high vapor concentrations. Avoid prolonged or repeated contact with skin. Use only with adequate ventilation. Wash thoroughly after handling.
Storage:	Store in well ventilated area. Store @ 70°F+/- 15°F (21°C+/-8°C), allow some air space above liquid level. Keep containers closed while not in use.
Explosion Hazard:	Vapors are heavier than air and may travel along the ground or may be move by ventilation and ignited by pilot lights, other flames, sparks, heaters, smoking or other ignition sources at locations distant from material handling point. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

SECTION 8: EXPOSURE CONTROLS/ PERSONAL PROTECTIVE EQUIPMENT

Engineering Controls:	Facilities storing or utilizing this material should be equipped with an eye facility and safety shower. Use process enclosures local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof ventilation equipment.
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Personal Protective Equipment

General:	To identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a hazard assessment in accordance with the OSHA PPE Standard (29CFR1910.132), or European Standard EN166 be conducted before using this product . Provide eye wash stations and safety showers. Wear impervious clothing to prevent ANY contact with this product, such as gloves, apron, boots, or whole body suit. Nitrile rubber is better than PVC.
Eye/ Face Protection:	Use impermeable clothing to prevent ANY contact with this product, such as gloves, apron, boots, or whole body suit. Nitrile rubber is better than PVC.
Skin:	Protection Wear resistant gloves. To prevent repeated or prolonged skin contact, wear impervious clothing and boots.
Respiratory Protection:	A NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain limited circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Wear a NIOSH/MSHA or European Standard EN 149 approved full-facepiece airline respirator in the positive pressure mode with emergency escape provisions. Follow OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance Clear/cloudy,viscous liquid	Odor & Odor Threshold fruity ester odor	PH NA	Specific Gravity (H2O=1):0.98	Viscosity N/DA	% Volatile W/W %: 99+
Boiling Point/ Freezing Point	Decomposition Temperature	Octanol/Water Partitioning Coefficient Log Po/w	Vapor Pressure:	Vapor Density Rate	Evaporation Rate
170°F(77°C)	N/DA	N/DA	N/A	(Air=1): 1	N/A
Flash Point (°F/°C) TAG Closed: 68°F/20°C	Flammable Limit (vol%) 400 ppm	Auto-ignition Temperature (vol%) N/DA			
					Solubility In Water (20°C) Insoluble

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable	Incompatibility (Materials to Avoid): Avoid oxidizing agents,acids & bases (heat)
Hazardous Decomposition Products: Heated material produce NO2 , CO2 , CO	Hazardous Polymerization: Will not occur
Conditions to Avoid: Heat, flame, ignition sources.	

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Oral Toxicity No information available	Acute Dermal Toxicity No information available	Acute Inhalation Toxicity No information available	Irritation - skin No information available	Irritation - Eye No information Available
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Further hazardous properties cannot be excluded. The product should be handled with care when dealing with chemicals.

Sensitization No information available	Mutagenicity No information available	Sub-chronic Toxicity No information available
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SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicological Information

Acute Toxicity To Fish	Acute Toxicity To Invertebrates	Acute Toxicity To Algae	Bioconcentration	Toxicity to Sewage Bacteria
No Information Available	No Information Available	No Information Available	No Information Available	No Information Available

Chemical Fate Information

Biodegradability: No information available
Chemical Oxygen Demand: No information available

To the best of our knowledge, the ecotoxocological and chemical fate properties have not been thoroughly investigated. Do not allow to enter drinking water supplies, wastewater, or soil.

SECTION 13: DISPOSABLE CONSIDERATIONS

Dispose of diking materials and absorbent in compliance with State, Local, and Federal regulations. Residual vapors may explode on ignition; do not cut, drill, or weld on or near the container. Mix with compatible chemical which is less flammable and incinerate.

Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved waste facility.

Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements. For EU Member States, please refer to any relevant Community provisions relating to waste. In their absence, it is useful to remind the user that national or regional provisions may be in force.

DOT (49 CFR 172)

Proper Shipping Name: Flammable liquids, n.o.s., (ethyl acetate, toluene), 3, UN1993, PGII

Identification Number: UN1993

Marine Pollutant: No

Special Provisions: T8, T31

Emergency Response Guidebook

(ERG) #: 128

IATA (DGR):

Proper Shipping Name: Flammable liquids, n.o.s., (ethyl acetate, toluene), 3, UN1993, PGII

Class or Division: 3

UN or ID Number: UN1993

Packaging Instructions:

Emergency Response Guidance

(ICAO)#: 3L

IMO (IMDG):

Proper Shipping Name: Flammable liquids, n.o.s., (ethyl acetate, toluene), 3, UN1993, PGII

Class or Division: 3.2

UN or ID Number: UN1993

Special Provisions &

Stowage/Segregation: None

Emergency Schedule (EmS)#: 307

Other Information: Flash point = 20°C

US Federal Regulations

Clean Air Act: HAP/ODS

This product contains the following hazardous air pollutants (HAPs):

Methyl Ethyl Ketone, CAS# 78-93-3

Toluene, CAS# 108-88-3

There are no ODS's (ozone depleting substances) as defined by the U. S. Clean Air Act.

Clean Water Act:

Priority Pollutant

This product contains the following chemicals listed under the U. S. Clean Water Act

Priority Pollutant and Hazardous Substance List:

Butyl Acetate, CAS# 123-86-4

Toluene, CAS# 108-88-3

FDA: Food Packaging Status

This product has not been cleared by the FDA for use in food packaging and / or other applications as an indirect food additive.

Occupational Safety and Health Act

This product is considered to be hazardous under the OSHA Hazard Communication Standard. Its hazards are:

Immediate (acute) health hazard

Fire hazard

RCRA

This product contains chemicals considered to be hazardous waste under RCRA (40 CFR 261):

Ethyl Acetate CAS# 141-78-6, RCRA Code U112

Methyl Ethyl Ketone, CAS# 78-93-3, RCRA Codes D035, U159
 Toluene, CAS# 108-88-3, RCRA Code U220
 May contain Characteristic of Ignitability: RCRA Code: D001

SARA Title III: Section 302 This product contains no chemicals regulated under Sec. 302 as extremely hazardous substances that carry a TPQ.

SARA Title III: Section 304 This product contains chemicals regulated under Section 304 as extremely hazardous chemicals for emergency release notification ("CERCLA" List):

Methyl Ethyl Ketone, CAS #78-93-3, RQ (lbs) 5000
 Toluene, CAS #108-88-3, RQ (lbs) 1000
 Ethyl Acetate, CAS# 141-78-6, RQ (Lbs): 5000
 Butyl Acetate, CAS# 123-86-4, RQ (Lbs): 5000

SARA Title III: Section 311-312: This product is considered to be hazardous under the OSHA Hazard Communication Standard and is regulated under Section 311-312 (40 CFR 370). Its hazards are:

Immediate (acute) health hazard
 Fire hazard

SARA Title III: Section 313: This product contains the following chemicals which are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

Toluene, CAS #108-88-3
 Methyl Ethyl Ketone, CAS# 78-93-3

TSCA Section 8(b): Inventory: This product contains chemicals listed on the TSCA inventory or otherwise complies with TSCA premanufacture notification requirements.

TSCA Significant New Use Rule: None of the chemicals in this material have a SNUR under TSCA.

State Regulations

CA Right-to-Know Law: California No Significant Risk Level: Ethyl Acetate CAS #141-78-6, Isopropyl Alcohol CAS #67-63-0, Butyl Acetate CAS #123-86-4, Methyl Ethyl Ketone CAS 78-93-3, Toluene, CAS#108-88-3

MA Right-to-Know Law: Nitrocellulose CAS #9004-70-0, Ethyl Acetate CAS #141-78-6, Isopropyl Alcohol CAS #67-63-0, Butyl Acetate CAS #123-86-4, Methyl Ethyl Ketone CAS 78-93-3 , Toluene, CAS#108-88-3

NJ Right-to-Know Law: Nitrocellulose CAS #9004-70-0, Ethyl Acetate CAS #141-78-6, Isopropyl Alcohol CAS #67-63-0, Butyl Acetate CAS #123-86-4, Methyl Ethyl Ketone CAS 78-93-3, Toluene, CAS#108-88-3

PA Right-to-Know Law: Nitrocellulose CAS #9004-70-0, Ethyl Acetate CAS #141-78-6, Isopropyl Alcohol CAS #67-63-0, Butyl Acetate CAS #123-86-4, Methyl Ethyl Ketone CAS 78-93-3, Toluene, CAS#108-88-3

FL Right-to-Know Law: Nitrocellulose CAS #9004-70-0, Ethyl Acetate CAS #141-78-6, Isopropyl Alcohol CAS #67-63-0, Butyl Acetate CAS #123-86-4, Methyl Ethyl Ketone CAS 78-93-3, Toluene, CAS#108-88-3

MN Right-to-Know Law: Ethyl Acetate CAS #141-78-6, Isopropyl Alcohol CAS #67-63-0, Butyl Acetate CAS #123-86-4, Methyl Ethyl Ketone CAS 78-93-3, Toluene, CAS#108-88-3

International Regulations

CDSL: Canadian Inventory (on Canadian Transitional List) Ethyl Acetate CAS #141-78-6 is on the DSL list. WHMIS = B2, D2B
 Isopropyl Alcohol CAS #67-63-0 is on the DSL list. WHMIS = B2, D2B
 Butyl Acetate CAS #123-86-4 is on the DSL list. WHMIS = B2, D1B, D2B
 Toluene CAS# 108-88-3 is on the DSL list. WHMIS = B2, D2B
 Methyl Ethyl Ketone CAS 78-93-3 is on the DSL list. WHMIS = B2, D2A
 Nitrocellulose CAS #9004-70-0 is on the DSL list. WHMIS = B4, D2B, F

EINECS: European Inventory: **Natural Nail Strengthener:**

HAZARD SYMBOLS: **Xn, F: Harmful, Highly Flammable**
 RISK PHRASES: **R11, highly flammable, R20: Harmful by inhalation, R36/37/38: Irritating to eyes, respiratory system and skin**

□ SAFETY PHRASES: **S7/9:** *keep container tightly closed and in a well ventilated place*, **S16:** *keep away from sources of ignition- no smoking*, **S24/25:** *In case of contact with eyes, rinse immediately with plenty of water and seek medical advise*, **S33:** *take precautionary measures against static discharges*, **S37/39:** *wear suitable protective clothing & gloves*, **S45:** *In case of accident or if you feel unwell, seek medical advise immediately (show the label where possible)*, **S61:** *Avoid release to the environment. Refer to special instruction/Safety data sheets*

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