### **MATERIAL SAFETY DATA SHEET**

Page 1 of 5

## SECTION I Chemical Product and Company Identification

Trade Name Appearing on Label: Nail Defense Chemical Family:Nitrocellulose Lacquer

Manufacturer/Distributor/Importers: Orly International, Inc.

7710 Haskell Ave Van Nuys, CA 91406

Emergency Phone: (800) 424-9300 Prepared By: Helga Melger Business Phone: (818) 994-1001 Date prepared: 4/9/99

Date prepared: 4/9/99 Revised By: Amy Chang Revised on: 5/6/2006

Poison Control Center - CHEMTREC: (800) 424-9300

Poison Control Center - CHEMTREC International: (703)527-3887

	Potentially Hazardous Ingredients				
	Exposure Limits in Air				
%	<b>CAS Number</b>	OSHA (PEL)	ACGIH (TLV)	Other	
29 -36	141-78-6	400 ppm	400 ppm	n/a	
15 - 19	123-86-4	150 ppm	150 ppm	n/a	
11 - 13	9004-70-0	NE	NE	n/a	
7 - 9	64-17-5	n/a	n/a	n/a	
5 - 7	108-88-3	200 ppm	100 ppm	n/a	
4 - 6	67-63-0	400 ppm	400 ppm	n/a	
4 - 6	109-60-4	150 ppm	150 ppm		
0.4 - 0.6	71-36-3	400 ppm	400 ppm	n/a	
0.3 - 0.5	50-00-0	100 ppm	100 ppm	n/a	
	29 -36 15 - 19 11 - 13 7 - 9 5 - 7 4 - 6 4 - 6 0.4 - 0.6	% CAS Number 29 -36 141-78-6 15 - 19 123-86-4 11 - 13 9004-70-0 7 - 9 64-17-5 5 - 7 108-88-3 4 - 6 67-63-0 4 - 6 109-60-4 0.4 - 0.6 71-36-3	%         CAS Number         OSHA (PEL)           29 -36         141-78-6         400 ppm           15 - 19         123-86-4         150 ppm           11 - 13         9004-70-0         NE           7 - 9         64-17-5         n/a           5 - 7         108-88-3         200 ppm           4 - 6         67-63-0         400 ppm           4 - 6         109-60-4         150 ppm           0.4 - 0.6         71-36-3         400 ppm	Exposure Limits i <b>%</b> CAS Number  OSHA (PEL)  29 -36  141-78-6  400 ppm  400 ppm  15 - 19  123-86-4  150 ppm  150 ppm  11 - 13  9004-70-0  NE  NE  7 - 9  64-17-5  n/a  n/a  5 - 7  108-88-3  200 ppm  100 ppm  4 - 6  67-63-0  400 ppm  400 ppm	Exposure Limits in Air  **CAS Number** OSHA (PEL)** ACGIH (TLV)** Other*  29 -36

#### SECTION III Hazard Identification

**HMIS Rating Scale:** 0 = Minimal 1 = Slight 2 = Moderate 4 = Severe

This Products Rating: Health: 1 Flammability: 3 Reactivity: 0

Material Appearance: slightly viscous liquid, various colors.

Primary Route of Entry: Inhalation X Skin X Ingestion X

Ingredient(s) Listed as Cancer Causing Agents?:

NTP - no LARC Monographs - no OSHA - no

Target Organs Affected: n/a when used as directed

**Short Term Effect:** Inhalation of a large quantity over a prolonged period of time may be narcotic. Ingestion of liquid will cause gastrointestinal distress, irritation and nausia.

**Eyes:** Exposure of liquid or vapor may cause mild eye irritation. Symptoms may include stinging, tearing and/or redness.

**Skin:** Exposure may cause skin irritation. Prolonged or repeated exposure may dry the skin. Symptoms may include burning, drying, cracking, skin burn and/or skin damage.

Nail Defense Page 2 of 5

**Signs and Symptoms of Over-Exposure:** Burning, tearing, and redness of the eyes, irritation of the nose and throat, skin irritation, signs of nervous system depression (e.g., drowsiness, dizziness, loss of coordination and/or fatigue).

**Medical Conditions Generally Aggravated by Exposure:** Respiratory symptoms associated with pre-existing lung disorders (e.g., asthma-like conditions) may be aggravated by exposure to the vapors of this material. Persons with pre-existing skin disorders may be more susceptible to the irritation by of this material.

## SECTION IV First Aid Measures

**Eye Contact:** Flush eyes with large amounts of water for at least fifteen minutes. If irritation persists, contact a physician.

**Skin Contact:** Wash exposed area with soap and water.

**Inhalation:** If dizziness occurs, move person away from source of exposure and into fresh air. Give oxigen if breathing is labored. Contact a physician immediately.

**Ingestion:** Seek medical attention. If person is drowsy, remove to fresh air. Only induce vomiting if directed by physician. If vomiting occurs spontaneously, keep head below hips to prevent aspiration into the lungs.

### SECTION V Fire Fighting Measures

Flash Point: 10° C, Method TCC

Flammable Limits in Air % - LEL: 1, UEL: 13

Extinguishing Media: Water Spray \_ Dry Chemical X

Carbon Dioxide X Foam X

Fire Fighting Procedure: Approach fire from upwind side. Avoid breathing smoke, fumes, mist or vapors. Fire fighters wear protective clothing and selfcontained breathing apparatus.

Do not use water, since this product will float on top of the water, causing spreading of the fire.

Unusual Fire and/or Explosion Hazards: If stored in drums: Containers may rupture from internal pressure if confined to a fire area. Keep drums cool with running cold water.

SECTION VI	Accidental Release Measures			
Spill and Leak Procedures:	Stop leak if it can be done without risk.			
Spin and Leak Frocedures.	Confine Spillage. Use absorbent material. Place into disposal drums.			
	Disnose according to local, state and federal regulations			

Nail Defense Page 3 of 5

# SECTION VII Handling and Storage

Handling: Avoid eye contact. Avoid repeated or prolonged skin contact.

Avoid breathing mist or vapors. Use only in well ventilated area.

Unvented containers may develop pressure. Open container with caution.

Storage: Keep containers cool and away from sources of ignition.

Keep containers tightly closed when not in use.. Do not store at temperatures above 35 C.

Do not store near heat, flame, sparks or any other sources of ignition.

#### **SECTION VIII**

## **Exposure Controls and Personal Protection**

When using this product in small quantities in beauty salons, the use of a fan is recommended.

When working with large quantities:

Personal Protective

Equipment (PPE) Eyes and Face: Face shield with safety glasses or safety goggles

Skin: Rubber or neoprene gloves. Wear additional clothing to protect the skin.

Engineering Controls: Closed system Filling Equipment. Use ventilation or exhoust during operations.

### **SECTION IX**

#### **Physical and Chemical Properties**

Water Solubility: Nil

Appearance: Hazy, slightly purple

Physical Form: semi-viscous Liquid

Specific Gravity: (H2O = 1): 0.85 948 - 0.984

Vapor Pressure (mm Hg): 29 mm @ 20 C

Vapor Density (air = 1): 3.04 (Ethyl Acetate)

%/Wt. Volutiles: 83 - 88 % Evaporation Rate (IPA = 1)<1
Boiling Point: 77°C (Ethyl Acetate) Flashpoint: 7.2°C (Ethyl Acetate)

Boiling Range: 77 - 130°C Flammable Limits:

Melting Point: n/a Ethyl Acetate: 11
pH: n/a Butyl Acetate 7.6
Odor: Acetate Isopropanol 12
Toluene 7

## **SECTION X**

### Stability and Reactivity

Chemical Stability: This product is stable under the recommended storage conditions.

Conditions to avoid: Storage in temperatures above 30 C. Keep away from any ignition sources.

Contact with Materials to avoid: Acids, Alkali, Metals, amines, Oxidizers

Keep containers tightly closed.

Hazardous Decomposition

Products: Oxides of nitrogen, oxides of carbon, carbon aldehydes, methane.

Hazardous Polymerization: will not occur.

Nail Defense page 4 of 5

# SECTION XI Toxicological Information

LD50(Oral Rat) LC50 (Inhal. Rat)

 Ethyl Acetate
 11300 mg/kg
 1600 ppm

 Butyl Acetate
 11400 mg/kg
 2000 ppm

 Isopropyl Alcohol
 5840 mg/kg
 16000 ppm

 Toluene
 2500 mg/kg
 NE

Ingestion: Can cause nausea, and narcosis with weekness, drowsiness and irritation

**Eyes** This product may be a temporary eye irritant.

Prolonged contact can injure the cornea.

**Dermal** Prolonged contact can cause dry skin.

**Inhalation** May cause slight dizziness and headache.

Overexposure: May cause irritation of respiratory tract, nervous system, depression, headache

Chronic Effects none known

Carcinoginity Not listed as a carcinogen by IARC, NTP, OSHA, or ACGIH

Target Organs Nervous System

SECTION XII Ecological Information

Ecotoxicity No information available

SECTION XIII Disposal Considerations

**Waste Dosposal:** Dispose of absorbed material in accordance with loca, state and federal regulations.

Pure used liquid can be recycled.

## SECTION XIV Transport Information

Road Transport: Maritime Transport:

Class: 3 UN Number: 1263

Packaging Group: III Class: 3

Label: 3 Packaging Group: III

UN Number: 1263 Label: 3

Flash Point: 10° C, Method TCC

Air Transport:

UN Number: ID8000 Class: 9 Packaging Group: II

Packaging instr.: 910 (Passenger)

Nail Defense page 5 of 5

# SECTION XV Regulatory Information

Labelling according to EEC-Directives.

Symbol: F

Indication of Danger: Highly flammable

Risk Phrases: 11

**Safety Phrases:** 7-16-23-29-33-37 and 39

SECTION XVI Other Information

**IMPORTANT NOTICE:** The information presented herein is based on experimental data submitted by the manufacturers of the raw materials and is considered scientifically correct, however, no warrant or representation, express or implied, is made as to the accuracy or suitability of this information for application to the purchaser's intended purpose or for consequences of its use. Use these materials only as directed. If you have any questions regarding the proper interoperation of this sheet or the meaning of any terms used, we strongly urge you to speak with your physician. For further information concerning product safety and proper use, call the number listed on the front of the MSDS.

These Products Are Designed and Formulated for Professional Salon Use.

They Must be Used with Adequate Ventilation and in Accordance with Manufacturers Instructions.

#### Abbreviations Used:

NE = Not Established
NKn = Not Known
n/a = Not Applicable
C = Ceiling Limit
TS = Trade Secret
EST = Estimated
N/DA = No Data Available
NTP = National Toxicology Program
IRAC = International Agency for Research on Cancer
CHEMTREC = Chemical Transportation Emergency Center
OSHA = Occupational Safety and Health Administration

IPA = Isopropyl Alcohol (Rubbing Alcohol)
mm Hg = Millimeters of Mercury
PEL = Permissible Exposure Limit
TLV = Threshold Limit Value
STEL = Short Term Exposure Limit
NEGL = Negligible
NF = None Found
CAS = Chemical Abstract Service Number
NR = Not Required