

MATERIAL SAFETY DATA SHEET

SECTION I Chemical Product and Company Identification

Trade Name Appearing on Label:	Tough Cookie	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: 11/26/2003
		Revised By: Amy Chang
		Revised on: 5/6/2006
Poison Control Center - CHEMTREC:	(800) 424-9300	
Poison Control Center - CHEMTREC International:	(703)527-3887	

SECTION II Potentially Hazardous Ingredients

Chemical Identity	%	CAS Number	OSHA (PEL)	Exposure Limits in Air	
				ACGIH (TLV)	Other
Ethyl Acetate	28 - 34	141-78-6	400 ppm	400 ppm	n/a
Butyl Acetate	20 - 25	123-86-4	150 ppm	150 ppm	n/a
Isopropyl Alcohol	9 - 11	67-63-0	400 ppm	400 ppm	n/a
Alcohol Denat.	9 - 11	64-17-5	n/a	n/a	n/a
Nitrocellulose	5 - 7	9004-70-0	NE	NE	n/a
Camphor	0.6 - 0.8	76-22-2	3 ppm	2 ppm	n/a

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 nausea.

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.

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 oxygen 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 self-contained 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. Confine Spillage. Use absorbent material. Place into disposal drums. Dispose according to local, state and federal regulations.

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 exhaust during operations.

SECTION IX Physical and Chemical Properties

Water Solubility: Nil	Specific Gravity: (H ₂ O = 1): 0.85 948 - 0.984
Appearance: Hazy, slightly purple	Vapor Pressure (mm Hg): 29 mm @ 20 C
Physical Form: semi-viscous Liquid	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

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.

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

Ingestion: Can cause nausea, and narcosis with weakness, 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

Carcinogenicity 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 Disposal: Dispose of absorbed material in accordance with local, 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)

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