

**MATERIAL SAFETY DATA SHEET**

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**SECTION I Chemical Product and Company Identification**Trade Name Appearing on Label: **Calcium Shield** Chemical Family: Nitrocellulose LacquerManufacturer/Distributor/Importers: Orly International, Inc.  
7710 Haskell Ave  
Van Nuys, CA 91406Emergency Phone: (800) 424-9300  
Business Phone: (818) 994-1001Prepared By: Helga Melger  
Date prepared: 4/9/99  
Revised By: Amy Chang  
Revised on: 5/3/2006Poison 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
Butyl Acetate	23 - 26	123-86-4	150 ppm	150 ppm	n/a
Alcohol Denat.	16 - 20	64-17-5	n/a	n/a	n/a
Ethyl Acetate	16 - 20	141-78-6	400 ppm	400 ppm	n/a
Nitrocellulose	10 - 13	9004-70-0	NE	NE	n/a
Isopropyl Alcohol	5 - 6	67-63-0	400 ppm	400 ppm	n/a
Camphor	0.7 - 0.9	76-22-2	n/a	n/a	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.

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#### SECTION IV

#### First Aid Measures

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**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.

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#### SECTION V

#### Fire Fighting Measures

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**Flash Point:** 10° C, Method TCC

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

<b>Extinguishing Media:</b>	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.

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#### SECTION VI

#### Accidental Release Measures

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**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.

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**SECTION VII Handling and Storage**


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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.

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**SECTION VIII Exposure Controls and Personal Protection**


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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.

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**SECTION IX Physical and Chemical Properties**


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Water Solubility: Nil

Appearance: Opaque, white

Physical Form: semi-viscous Liquid

%/Wt. Volatiles: 83 - 88 %

Boiling Point: 77°C (Ethyl Acetate)

Boiling Range: 77 - 130°C

Melting Point: n/a

pH: n/a

Odor: Acetate

Specific Gravity: (H<sub>2</sub>O = 1): 0.85 948 - 0.984

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

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

Evaporation Rate (IPA = 1)<1

Flashpoint: 7.2°C (Ethyl Acetate)

Flammable Limits:

Ethyl Acetate: 11

Butyl Acetate 7.6

Isopropanol 12

Toluene 7

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**SECTION X Stability and Reactivity**


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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.

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**SECTION XI****Toxicological Information**

	<b>LD50(Oral Rat)</b>	<b>LC50 (Inhal. Rat)</b>
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
<b>Ingestion:</b>	Can cause nausea, and narcosis with weekness, drowsiness and irritation	
<b>Eyes</b>	This product may be a temporary eye irritant. Prolonged contact can injure the cornea.	
<b>Dermal</b>	Prolonged contact can cause dry skin.	
<b>Inhalation</b>	May cause slight dizziness and headache.	
<b>Overexposure:</b>	May cause irritation of respiratory tract, nervous system, depression, headache	
<b>Chronic Effects</b>	none known	
<b>Carcinoginity</b>	Not listed as a carcinogen by IARC, NTP, OSHA, or ACGIH	
<b>Target Organs</b>	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:**

Class:                                      3  
Packaging Group:                      III  
Label:                                        3  
UN Number:                                1263

**Maritime Transport:**

UN Number:                                1263  
Class:                                        3  
Packaging Group:                        III  
Label:                                        3  
Flash Point:                                10° C, Method TCC

**Air Transport:**

UN Number:                                ID8000  
Class:                                        9  
Packaging Group:                        II  
Packaging instr.:                        910 (Passenger)

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**SECTION XV****Regulatory Information**

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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

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**SECTION XVI****Other Information**

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**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.*

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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