

MATERIAL SAFETY DATA SHEET

HAZARD RATING

FIRE:	0	0 = Insignificant
TOXICITY:	1	1 = Slight
REACTIVITY:	1	2 = Moderate
SPECIAL:		3 = High
		4 = Extreme

Lamour Professional Products
Division of Zotos International Inc.
100 Tokeneke Road, Darien, CT 06820
Phone No.: 203-656-7821
Monday Thru Friday (8:30 a.m. – 5:00 p.m. EST)

24 HOUR EMERGENCY NO.: ([800] 228-5635 Ext. 019)

Prepared: 01/07/00

Current MSDS update: 02/26/03

I. MATERIAL IDENTIFICATION

PRODUCT NAME: APPLE PECTIN® Acid pH Perm (Including Concentrate, Activator and Neutralizer)
CHEMICAL FORMULA: Mixture **CAS NUMBER:** None
DOT PROPER SHIPPING NAME: Not regulated **DOT HAZARD CLASS/I.D. NO:** None
U. S. SURFACE FREIGHT CLASSIFICATION: Toilet Preparation, NOI **DOT LABELING:** None

II. INGREDIENTS

<u>MATERIALS</u>	<u>CAS NUMBER</u>	<u>PERCENT</u>	<u>TVL (units)</u>	<u>HAZARD DATA</u>
APPLE PECTIN® Concentrate Glycerol Monothioglycolate	30618-84-9	> 60	None established. Eye and skin irritant.	ACGIH Mfr.
Thioglycolic Acid	68-11-1	< 2	3.8 mg/m ³ TWA Eye and skin irritant.	ACGIH Mfr.
APPLE PECTIN® Perm Activator Solution Urea Prilled	57-13-6	> 8	None established. Eye and skin irritant.	ACGIH Mfr.
Ammonium Hydroxide	1336-21-6	< 2	None established. Eye and skin irritant.	ACGIH Mfr.
APPLE PECTIN® Apple Cider Neutralizer Ethanol 40B	64-17-5	< 15	1000 ppm TWA Eye irritant	ACGIH Mfr.
Hydrogen Peroxide	7722-84-1	< 2	1 ppm TWA 1.4 mg/m ³ TWA Eye irritant.	ACGIH Mfr.
Adipic Acid	124-04-9	< 1	5 mg/m ³ TWA. Eye and skin Irritant.	ACGIH Mfr.
N-Cetyl-N-Ethylmorpholinium Ethosulfate	78-21-7	< 1	None established. Eye and skin irritant.	ACGIH Mfr.

Also contains water, nonionic surfactant, silicone, preservatives, fragrance, and other essential ingredients.

Ingredients not precisely identified are proprietary and non-hazardous.

na = not applicable; ca = approximately; < = less than; > = greater than

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Page 2 of 3

III. PRECAUTIONARY STATEMENTS

FOR PROFESSIONAL USE ONLY. CAUTION: Do not give this or any other perm if scalp is sensitive or abraded, or if your client has a history of allergic reaction to a permanent wave or other cosmetic products. Be sure to ask first! Always wear gloves when preparing or applying perm. All neck and ear jewelry should be removed by client. Do not allow perm solution to contact skin, eyes, or ears. If contact occurs, flush repeatedly with clean, cool water. Change neck towel or cotton band immediately if it becomes saturated with lotion. If waving mixture contacts skin or scalp, blot (do not wipe) with cotton saturated in cool water.

IV. PHYSICAL DATA

COMPONENT:	BOILING POINT, 760 mm Hg:	SPECIFIC GRAVITY (H ₂ = 1):	VAPOR DENSITY (air = 1):	VOLATILES BY VOLUME, %:	APPEARANCE AND ODOR:	VAPOR PRESSURE at 20°C:	SOLUBILITY IN WATER:	EVAPORATION RATE (water = 1):	pH:
APPLE PECTIN® Perm Concentrate	na	ca 1	> 1	na	Clear viscous liquid.	na	Complete	1	ca 1.0
APPLE PECTIN® Perm Activator Solution	na	ca 1	> 1	na	Clear, caramel colored liquid with an ammonia odor.	na	Complete	1	10.0-11.0
APPLE PECTIN® Apple Cider Neutralizer	na	ca 1	> 1	na	Opaque, non-viscous liquid.	na	Complete	1	3.35-3.85

V. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: APPLE PECTIN® Perm Concentrate > 212°F FLAMMABLE LIMITS IN AIR: na
APPLE PECTIN® Perm Activator Solution > 212°F
APPLE PECTIN® Apple Cider Neutralizer 100°F (closed cup)

EXTINGUISHING MEDIA: Water, ABC all purpose extinguisher or CO₂ extinguisher.

SPECIAL FIRE FIGHTING PROCEDURES: None UNUSUAL FIRE AND EXPLOSION HAZARDS: None

VI. HEALTH HAZARD INFORMATION

Consumer experience with these types of personal care products indicate these formulations are expected to have the following hazard information:

COMPONENT:	HAZARD DATA:	EFFECTS OF OVEREXPOSURE:
APPLE PECTIN® Perm Concentrate	Skin and eye irritant.	May cause skin and eye irritation.
APPLE PECTIN® Perm Activator Solution	Eye irritant.	May cause skin and eye irritation.
APPLE PECTIN® Apple Cider Neutralizer	Eye irritant.	May cause skin and eye irritation.

EMERGENCY AND FIRST AID PROCEDURES: If contact with skin or eyes occurs, flush repeatedly with clean, cool water. If irritation persists seek medical attention immediately. INHALATION: Avoid further breathing of vapors

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Page 3 of 3

VII. REACTIVITY DATA

STABILITY: Stable.

INCOMPATIBILITY: Metallic bowls or stirrers, metallic or organic contamination, reducing agents, and oxidizing materials such as bleaches and Hydrogen Peroxide

HAZARDOUS POLYMERIZATION: Will not occur.

COMPONENT:	CONDITIONS TO AVOID:	HAZARDOUS DECOMPOSITION PRODUCTS:
APPLE PECTIN® Perm Concentrate	Heavy metals, oxidizing materials, and acids.	Hydrogen Sulfide, and Sulfur Oxides.
APPLE PECTIN® Perm Activator Solution	Heavy metals, oxidizing materials, and acids. Avoid impact.	Ammonia, Hydrogen Sulfide, and Sulfides.
APPLE PECTIN® Apple Cider Neutralizer	Heavy metals, reducing agents. Avoid excessive heat.	Oxygen (which supports combustion and will build pressure within closed containers).

VIII. SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Small Spill: Using gloves, mop up excess material and dispose of material properly. Flush with large volume of water.

Large Spill: Immediately dike far ahead of spill and notify treatment plant. Persons not wearing protective equipment should be excluded from area of spill until cleanup has been completed. Absorb remaining liquid with sand, clay, earth, or other absorbent material and dispose of material properly. Flush residual with large volumes of water.

WASTE DISPOSAL: Follow all local, state and federal regulations and notify treatment plant in case of large spill.

IX. SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Not required.

VENTILATION: To avoid irritating fumes adequate use exhaust system.

PROTECTIVE GLOVES: Use rubber or plastic gloves.

EYE PROTECTION: Not required. Avoid contact with eyes

OTHER PROTECTIVE MEASURES: None.

X. SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Store in a dry, well ventilated area, away from sunlight, radiators, and heating elements.

OTHER PRECAUTIONS: None.

PREPARED BY: RRN
REVIEWED BY: RRN, CLP

PREPARED: 10/98
SUPERSEDES: 02/96

SECTIONS REVISED: Company name change

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