



MATERIAL SAFETY DATA SHEET

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CND-N-078

Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS & 2001/58 EC Standards

MSDS Revision: 5.0

MSDS Revision Date: 05/01/2007

1. PRODUCT IDENTIFICATION

1.1	Product Name: REVIVANAIL SIGNATURE
1.2	Chemical Name: SOLVENT MIXTURE
1.3	Synonyms: NA
1.4	Trade Names: REVIVANAIL SIGNATURE
1.5	Product Use: COSMETIC USE ONLY
1.6	Distributor's Name: COLOMER U.S.A., INC.
1.7	Distributor's Address: 5433 OVERMYER DRIVE JACKSONVILLE, FL USA 32254
1.8	Emergency Phone: CHEMTREC: +1 (800) 424-9300 / +1 (703) 527-3887
1.9	Business Phone: 800-833-6245, 760-599-2900

2. HAZARD IDENTIFICATION

2.1	Hazard Identification: This product is classified as a hazardous substance and as dangerous goods according to the classification criteria of NOHSC and ADG Code (Australia). Flammable liquid.						
2.2	Routes of Entry:	Inhalation:	YES	Absorption:	YES	Ingestion:	YES
2.3	Effects of Exposure: INGESTION: If product is swallowed, may cause nausea, vomiting and/or diarrhea and central nervous system depression. EYES: Mildly to moderately irritating to the eyes. Symptoms of overexposure may include redness, itching, irritation and watering. SKIN: May be irritating to skin in some sensitive individuals, especially after prolonged and/or repeated contact. INHALATION: Vapors of this product may be slightly irritating to the nose, throat and other tissues of the respiratory system. Symptoms of overexposure can include coughing, wheezing, nasal congestion, and difficulty breathing. Inhalation of vapors exceeding the levels listed in Section 2 (Composition & Ingredient Information) can cause central nervous system depression (e.g., drowsiness, dizziness, headaches, nausea).						
2.4	Symptoms of Overexposure: EYES: Overexposure in eyes may cause redness, itching and watering. SKIN: Symptoms of skin overexposure in some sensitive individuals may include redness, itching, and irritation of affected areas.						
2.5	Acute Health Effects: EYES: Mild to moderate irritation to eyes near affected areas. SKIN: Mild to moderate irritation to skin near affected areas. INHALATION: High concentrations of vapors can cause drowsiness, dizziness, headaches and nausea.						
2.6	Chronic Health Effects: None known.						
2.7	Target Organs: Eyes, skin & respiratory system.						

NA = Not Available; ND = Not Determined; NE = Not Established; C = Ceiling Limit; See Section 16 for Additional Definitions of Terms Used

NOTE: all WHMIS required information is included. It is located in appropriate sections based on the ANSI Z400.1-2004 format.

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3. COMPOSITION & INGREDIENT INFORMATION

CHEMICAL NAME(S)	CAS No.	RTECS No.	EINECS No.	%	EXPOSURE LIMITS IN AIR (mg/m ³)					
					ACGIH		OSHA			OTHER
					TLV ppm	STEL ppm	PEL ppm	STEL ppm	IDLH ppm	
PROPYL ACETATE	109-60-4	AJ3675000	203-686-1	< 30.0	200	NA	200	NA	NA	
NITROCELLULOSE	9004-70-0	QW0970000	NA	< 25.0	(10)	NA	(10)	NA	NA	
ETHYL ACETATE	141-78-6	AH5425000	201-550-6	< 20.0	400	NA	400	NA	2000	400 TWA
HEPTANE	142-82-5	MI7700000	205-563-8	≤ 15.0	(400)	NA	(400)	NA	NA	
ISOPROPYL ALCOHOL	67-63-0	NT8050000	200-661-7	< 10.0	400	500	400	500	2000	400 TWA
METHYL ETHYL KETONE	78-93-3	EL6475000	201-159-01	≤ 5.0	200	2000	200	3000	3000	
TOSYLAMIDE RESIN	25035-71-6	NA	NA	< 5.0	NA	NA	NA	NA	NA	
TITANIUM DIOXIDE	13463-67-7	XR2275000	236-675-5	< 5.0	(10)	NA	(15)	NA	NA	
N-BUTYL ALCOHOL	71-36-3	EO1400000	200-751-6	≤ 2.0	20	NA	100	NA	NA	50 CLG
STEARALKONIUM HECTORITE	12173-47-6	NA	NA	≤ 2.0	(15)	NA	(5)	NA	NA	As a dust
FORMALDEHYDE	50-00-0	LP8925000	200-001-8	≤ 1.0	0.3	0.37	0.75	2.0	NA	
OTHER COMPONENTS PRESENT IN LESS THAN 1% CONCENTRATION				BAL	THE REMAINING COMPONENTS DO NOT CONTRIBUTE ANY SIGNIFICANT ADDITIONAL HAZARDS					

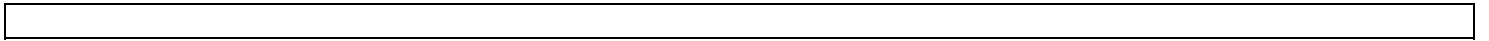
4. FIRST AID MEASURES

4.1	<p>First Aid:</p> <p>INGESTION: DO NOT INDUCE VOMITING. Contact ChemTrec at +1 (703) 527-3887 or the nearest Poison Control Center or local emergency telephone number for assistance and instructions. Seek immediate medical attention. If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the risk of aspiration.</p> <p>EYES: Splashes are not likely; however, if product gets in the eyes, flush with copious amounts of lukewarm water for at least 15 minutes. Open and close eyelid(s) to ensure thorough irrigation. If irritation occurs, contact a physician.</p> <p>SKIN: If irritation occurs and product is on the skin, rinse thoroughly with lukewarm water, followed by a thorough washing of the affected area with soap and water. Do not wear contaminated clothing until after it has been properly cleaned. If irritation, redness or swelling persists, contact a physician immediately.</p> <p>INHALATION: Remove victim to fresh air at once. Under extreme conditions, if breathing has stopped, perform artificial respiration. Seek immediate medical attention.</p>
4.2	<p>Medical Conditions Aggravated by Exposure:</p> <p>May aggravate preexisting conditions, e.g. asthma, in some sensitive individuals.</p>

5. FIREFIGHTING MEASURES

5.1	Flashpoint & Method: 24 °F (-4 °C) Calculated based on Ethyl Acetate.
5.2	Autoignition Temperature: NA
5.3	Flammability Limits: Lower Explosive Limit (LEL): NE Upper Explosive Limit (UEL): NE
5.4	Fire & Explosion Hazards: WARNING: Extremely Flammable! Keep away from heat, lit cigarettes, sparks & open flame. Keep container closed.
5.5	Extinguishing Methods: CO₂, Halon, Dry Chemical, Foam
5.6	Firefighting Procedures: This product is a Class IB flammable liquid. When involved in a fire, this product will ignite readily and decompose to produce carbon oxides. First responders should wear eye protection. Structural firefighters must wear SCBAs and full protective equipment. Use a water spray or fog to reduce or direct vapors. Water may not be effective in actually extinguishing a fire involving this product.







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6. ACCIDENTAL RELEASE MEASURES

6.1 Spills:
Before cleaning any spill or leak, individuals involved in spill cleanup must wear appropriate personal protective equipment.
For small spills (e.g., <1 gallon) wear appropriate personal protective equipment (e.g., goggles, gloves). Maximize ventilation (open doors and windows) and secure all sources of ignition. Remove spilled material with absorbent material and place into appropriate closed container(s) for disposal. Dispose of properly in accordance with local, state and federal regulations. Wash all affected areas and outside of container with plenty of warm water and soap. Remove any contaminated clothing and wash thoroughly before reuse.
For spills \geq 1 gallon, deny entry to all unprotected individuals. Dike and contain spill with inert material (e.g., sand or earth). Use ONLY non-sparking tools for recovery and cleanup. Transfer liquid to containers for recovery or disposal and solid diking material to separate containers for proper disposal. Remove contaminated clothing promptly and wash affected skin areas with soap and water. Keep spills and cleaning runoffs out of municipal sewers and open bodies of water.

7. HANDLING & STORAGE INFORMATION

7.1 Work & Hygiene Practices:
Avoid prolonged inhalation and skin contact with the product. Avoid breathing vapors of this product. Use in a well-ventilated location (e.g., local exhaust ventilation, fans). After handling large quantities, wash hands and exposed skin with soap & water. Do not eat, drink or smoke while handling product.

7.2 Storage & Handling:
Keep this material away from heat, sparks and open flame. Open containers slowly on a stable surface. Keep container closed tightly when not in use. Empty container may contain residual amounts of this product; therefore, empty containers should be handled with care.
Store containers in a cool, dry location, away from direct sunlight, other light sources, or sources of intense heat.

7.3 Special Precautions:

8. EXPOSURE CONTROLS & PERSONAL PROTECTION

8.1 Ventilation & Engineering Controls:
When working with large quantities of product, provide adequate ventilation (e.g., local exhaust ventilation, fans). Ensure that an eyewash station, sink or washbasin is available in case of exposure to eyes.

8.2 Respiratory Protection:
No special respiratory protection is required under typical circumstances of use or handling. If necessary, use only respiratory protection authorized per U.S. OSHA's requirement in 29 CFR §1910.134, or applicable U.S. state regulations, or the appropriate standards of Canada, its provinces, E.C. member states, or Australia.

8.3 Eye Protection:
None required under normal conditions of use. Avoid eye contact. When handling large quantities (e.g., \geq 1 gallon), safety glasses with side shields should be used.

8.4 Hand Protection:
None required under normal conditions of use. May cause skin irritation in some sensitive individuals.
When handling large quantities (e.g., \geq 1 gallon), wear rubber or impervious plastic gloves.

8.5 Body Protection:
No apron required when handling small quantities.
When handling large quantities (e.g., \geq 1 gallon), eye wash stations and deluge showers should be available. Upon completion of work activities involving large quantities of this product, wash any exposed areas thoroughly with soap and water.

HEALTH	1
FLAMMABILITY	3
REACTIVITY	0
PROTECTIVE EQUIPMENT	A
EYES	

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9. PHYSICAL & CHEMICAL PROPERTIES

9.1	Density:	.98
9.2	Boiling Point:	170 °F
9.3	Melting Point:	NA
9.4	Evaporation Rate:	2-3 (n-Butyl Acetate = 1) Calculated
9.5	Vapor Pressure:	NE
9.6	Molecular Weight:	NA
9.7	Appearance & Color:	Light colored liquid with a strong ester-like odor.
9.8	Odor Threshold:	ND
9.9	Solubility:	Moderately soluble in water.
9.10	pH	NA
9.11	Viscosity:	NA
9.12	Other Information:	Vapor Density = 3.2-3.6@20 °C (68 °F) (Air = 1) Calculated

10. STABILITY & REACTIVITY

10.1	Stability:	Stable under ambient conditions when stored properly (see Section 7, Storage and Handling).
10.2	Hazardous Decomposition Products:	If exposed to extremely high temperatures, the products of thermal decomposition may include irritating vapors and carbon oxide gases (e.g., CO, CO₂).
10.3	Hazardous Polymerization:	Will not occur.
10.4	Conditions to Avoid:	Exposure to or contact with extreme temperatures, strong light sources or incompatible materials.
10.5	Incompatible Substances:	This product is incompatible with strong oxidizers (e.g., peroxides, superoxides), strong acids (e.g., hydrochloric or muriatic acids), or strong bases (e.g., lye, potassium hydroxide).

11. TOXICOLOGICAL INFORMATION

11.1	Toxicity Data:	This product has not been tested on animals to obtain toxicological data. There are toxicology data for the components of this product, which are found in the scientific literature. These data have not been presented in this document.
11.2	Acute Toxicity:	See section 2.5
11.3	Chronic Toxicity:	See section 2.6
11.4	Suspected Carcinogen:	This product contains Isopropyl Alcohol, which is not carcinogenic to humans but is listed as a Group 3 carcinogen by the IARC.
11.5	Reproductive Toxicity:	This product is not reported to cause reproductive toxicity in humans.
	Mutagenicity:	This product is not reported to produce mutagenic effects in humans.
	Embryotoxicity:	This product is not reported to produce embryotoxic effects in humans.
	Teratogenicity:	This product is not reported to cause teratogenic effects in humans.
	Reproductive Toxicity:	This product is not reported to cause reproductive effects in humans.
11.6	Irritancy of Product:	See section 2.3
11.7	Biological Exposure Indices:	NE
11.8	Physician Recommendations:	Treat symptomatically.

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12. ECOLOGICAL INFORMATION


12.1	Environmental Stability:	<p>The components of this product will slowly degrade over time into a variety of organic compounds. Specific environmental data available for the components of this product are as follows:</p> <p>Ethyl Acetate: $K_{OC} = 0.73$. Water solubility: 64,000 mg/l. Bioconcentration Factor = 4-14. Bioconcentration is not anticipated to be significant. This compound can be removed from contaminated environments through volatilization, and biodegradation. This compound's half-life in water is 6.1 hours.</p> <p>Isopropyl Alcohol: $\log K_{OW} = 0.05-0.14$. Isopropyl alcohol occurs naturally; it is generated during microbial degradation of plant and animal wastes. When released on land or water, it is apt to volatilize and biodegrade. The estimated half-life in water is 5.4 days. Isopropyl alcohol is not expected to bioconcentrate.</p>
12.2	Effects on Plants & Animals:	There are no specific data available for this product.
12.3	Effects on Aquatic Life:	There are no specific data available for this product; however, very large releases of this product may be harmful or fatal to overexposed aquatic life.

13. DISPOSAL CONSIDERATIONS

13.1	Waste Disposal:	Waste disposal must be in accordance with appropriate Federal, state, and local regulations.
13.2	Special Considerations:	U.S. EPA WASTE NUMBER: D001 (characteristic - ignitable)



14. TRANSPORTATION INFORMATION

The basic description (ID Number, proper shipping name, hazard class & division, packing group) is shown for each mode of transportation. Additional descriptive information may be required by 49 CFR, IATA/ICAO, IMDG and the CTDGR.



14.1	49 CFR (GND): CONSUMER COMMODITY, ORM-D (≤ 1.0 L) UN1263, PAINT, 3, II (> 1.0 L)	
14.2	IATA (AIR): CONSUMER COMMODITY, 9, ID8000 (≤ 0.5 L) UN1263, PAINT, 3, II (> 0.5 L)	
14.3	IMDG (OCN): UN1263, PAINT, 3, II, LTD QTY (≤ 1.0 L) UN1263, PAINT, 3, II (> 1.0 L)	
14.4	TDGR (Canadian GND): MARK PACKAGE "LIMITED QUANTITY" or "QUANTITÉ LIMITÉE" or "LTD QTY" or "QUANT LTÉE" (≤ 1.0 L) UN1263, PAINT, 3, II (> 1.0 L)	
14.5	ADR/RID (EU): UN1263, PAINT, 3, 3 °(b), ADR, LTD QTY (≤ 1.0 L)	
14.6	SCT (MEXICO): UN1263, PINTURA (INFLAMMABLE), 3, II, CANTIDAD LIMITADA (≤ 1.0 L)	

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15. REGULATORY INFORMATION

15.1	SARA Reporting Requirements: SARA 304 (40 CFR Table 302.4) - Ethyl Acetate	
15.2	SARA Threshold Planning Quantity: There are no specific Threshold Planning Quantities for the components of this product.	
15.3	TSCA Inventory Status: The components of this product are listed on the TSCA Inventory.	
15.4	CERCLA Reportable Quantity (RQ): Ethyl Acetate: 5000 lbs.	
15.5	Other Federal Requirements: This product complies with the appropriate sections of the Food and Drug Administration's 21 CFR subchapter G (Cosmetics).	
15.6	Other Canadian Regulations: This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR. The components of this product are listed on the DSL/NDSL. None of the components of this product are listed on the Priorities Substances List. Class B2 Flammable Liquid.	
15.7	State Regulatory Information: Toluene, Ethyl Acetate, Formaldehyde and Isopropyl Alcohol are covered under specific state criteria. Components of this product are not listed on the California Proposition 65 lists or they are exempt from the requirements.	
15.8	67/548/EEC (European Union) Requirements: The primary component of this product is not listed in Annex I of EU Directive 67/548/EEC: Propyl Acetate: Flammable (F). R: Flammable. S: 9-16-33 - Keep container in a well-ventilated place. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Ethyl Acetate: Flammable (F). R: 11-36/37/38 - Highly flammable. Irritating to eyes, respiratory system and skin. S: 2-16-23-29-33 - Keep out of the reach of children. Keep away from sources of ignition - No smoking. Do not breathe gas, fumes, vapor or spray. Do not empty into drains. Take precautionary measures against static discharges.	

16. OTHER INFORMATION

16.1	Other Information: WARNING: EXTREMELY FLAMMABLE! Keep away from heat or flame. Use only as directed. If redness or other signs of adverse reaction occur, discontinue use immediately. Avoid inhalation. Store in a cool place. Keep out of reach of children.	
16.2	Terms & Definitions: See last page of this MSDS.	
16.3	Disclaimer: This Material Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR §1910.1200. Other government regulations must be reviewed for applicability to this product. To the best of ShipMate's & Colomer U.S.A.'s knowledge, the information contained herein is reliable and accurate as of this date; however, accuracy, suitability or completeness are not guaranteed and no warranties of any type, either expressed or implied, are provided. The information contained herein relates only to the specific product(s). If this product(s) is combined with other materials, all component properties must be considered. Data may be changed from time to time. Be sure to consult the latest edition.	
16.4	Prepared for: Colomer U.S.A., Inc. 5344 Overmyer Drive Jacksonville, FL 32254 800-833-6245 phone 760-599-2900 760-599-4005 fax	
16.5	Prepared by: ShipMate, Inc. 18436 Hawthorne Boulevard, Suite 201 Torrance, CA 90504 310-360-3700 phone 310-360-5700 fax http://www.shipmate.com/	

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DEFINITION OF TERMS

A large number of abbreviations and acronyms appear on a MSDS. Some of these that are commonly used include the following:

GENERAL INFORMATION:

CAS No.	Chemical Abstract Service Number
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EXPOSURE LIMITS IN AIR:

ACGIH	American Conference on Governmental Industrial Hygienists
TLV	Threshold Limit Value
OSHA	U.S. Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
IDLH	Immediately Dangerous to Life and Health

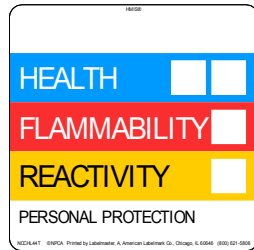
FIRST AID MEASURES:

CPR	Cardiopulmonary resuscitation - method in which a person whose heart has stopped receives manual chest compressions and breathing to circulate blood and provide oxygen to the body.
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HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

0	Minimal Hazard
1	Slight Hazard
2	Moderate Hazard
3	Severe Hazard
4	Extreme Hazard



PERSONAL PROTECTION RATINGS:

A		G	
B		H	
C		I	
D		J	
E		K	
F		X	Consult your supervisor or S.O.P. for special handling directions.

Safety Glasses	Splash Goggles	Face Shield & Eye Protection	Gloves
Boots	Synthetic Apron	Full Suit	Dust Respirator
Vapor Respirator	Dust & Vapor Respirator	Full Face Respirator	Airline Hood/Mask or

Note: the dotted circle indicates that this respiratory protective equipment is required for high concentrations or for large volume spills or releases of product.

FLAMMABILITY LIMITS IN AIR:

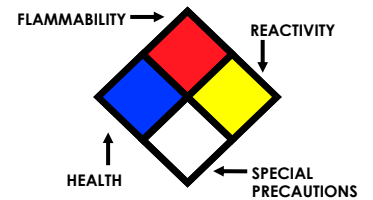
Autoignition Temperature	Minimum temperature required to initiate combustion in air with no other source of ignition
LEL	Lower Explosive Limit - lowest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source
UEL	Upper Explosive Limit - highest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source

OTHER STANDARD ABBREVIATIONS:

NA	Not Available
NR	No Results
NE	Not Established
ND	Not Determined
ML	Maximum Limit
SCBA	Self-Contained Breathing Apparatus

NATIONAL FIRE PROTECTION ASSOCIATION: NFPA HAZARD RATINGS:

0	Minimal Hazard
1	Slight Hazard
2	Moderate Hazard
3	Severe Hazard
4	Extreme Hazard
ACD	Acidic
ALK	Alkaline
COR	Corrosive
-W	Use No Water
OX	Oxidizer



TOXICOLOGICAL INFORMATION:

LD₅₀	Lethal Dose (solids & liquids) which kills 50% of the exposed animals
LC₅₀	Lethal concentration (gases) which kills 50% of the exposed animal
ppm	Concentration expressed in parts of material per million parts
TD₁₀	Lowest dose to cause a symptom
TCLO	Lowest concentration to cause a symptom
TD₁₀, LD₁₀, & LD₅₀ or TC, TC₀, LC₁₀, & LC₅₀	Lowest dose (or concentration) to cause lethal or toxic effects
IARC	International Agency for Research on Cancer
NTP	National Toxicology Program
RTECS	Registry of Toxic Effects of Chemical Substances
BCF	Bioconcentration Factor
TL_m	Median threshold limit
log K_{ow} or log K_{oc}	Coefficient of Oil/Water Distribution

REGULATORY INFORMATION:

WHMIS	Canadian Workplace Hazardous Material Information System
DOT	U.S. Department of Transportation
TC	Transport Canada
EPA	U.S. Environmental Protection Agency
DSL	Canadian Domestic Substance List
NDSL	Canadian Non-Domestic Substance List
PSL	Canadian Priority Substances List
TSCA	U.S. Toxic Substance Control Act
EU	European Union (European Union Directive 67/548/EEC)
CPR	Canada's Controlled Product Regulations

EC INFORMATION:

C	E	F	N	O	T+	Xi	Xn
Corrosive	Explosive	Flammable	Harmful	Oxidizing	Toxic	Irritant	Harmful

WHMIS INFORMATION:

A	B	C	D1	D2	D3	E	F
Compressed	Flammable	Oxidizing	Toxic	Irritation	Infectious	Corrosive	Reactive