

NOTE: all WHMIS required information is included. It is located in appropriate sections based on the ANSI Z400.1-2003 format.



MATERIAL SAFETY DATA SHEET

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

MSDS Revision: 2.1

MSDS Revision Date: 01/15/2004

3. HAZARD IDENTIFICATION

3.1	Hazard Identification: NA						
3.2	Routes of Entry:	Inhalation:	YES	Absorption:	YES	Ingestion:	YES
3.3	Effects of Exposure: INGESTION: Gastrointestinal irritation and central nervous system depression. EYES: Mild to moderate irritation. SKIN: Irritant and potential skin sensitizer. Prolonged or repeated contact may cause contact dermatitis (localized redness or rash). INHALATION: Central nervous system depressant. Irritating to the upper respiratory tract.						
3.4	Symptoms of Overexposure: INGESTION: Nausea, vomiting, and diarrhea. EYES: Mild irritation, redness, and watering. SKIN: Contact dermatitis, characterized by localized red or puffy dry skin and itching. INHALATION: Mouth, nose, and throat irritation, dizziness, nausea, light-headedness, drunkenness, and loss of coordination.						
3.5	Acute Health Effects: INGESTION: Gastrointestinal irritation and central nervous system depression. EYES: Mild to moderate irritation. SKIN: Irritant and potential skin sensitizer. Prolonged or repeated contact may cause contact dermatitis (localized redness or rash). INHALATION: Central nervous system depressant. Irritating to the upper respiratory tract.						
3.6	Chronic Health Effects: INGESTION: Gastrointestinal irritation and central nervous system depression. EYES: Mild to moderate irritation. SKIN: Irritant and potential skin sensitizer. Prolonged or repeated contact may cause contact dermatitis (localized redness or rash). INHALATION: Central nervous system depressant. Irritating to the upper respiratory tract.						
3.7	Target Organs: Eyes, skin and respiratory system.						

4. FIRST AID MEASURES

4.1	First Aid:							
	INGESTION:	DO NOT INDUCE VOMITING. Contact Rocky Mountain Poison Control at 303-623-5716 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.						
	EYES:	Flush eyes thoroughly with copious amounts of water for at least 15 minutes, holding eyelid(s) open to ensure complete flushing. If irritation persists, seek immediate medical attention.						
	SKIN:	Remove contaminated clothing and wash affected areas with soap and water. If irritation persists, seek prompt medical attention. Do not wear contaminated clothing until after it has been properly cleaned.						
	INHALATION:	Remove victim to fresh air at once. If breathing is difficult, administer supplemental oxygen and seek immediate medical attention. If breathing stops, perform artificial respiration.						
4.2	Medical Conditions Aggravated by Exposure:							
	Pre-existing respiratory and skin disorders.							
		HEALTH					2	
		FLAMMABILITY					3	
		REACTIVITY					0	
		PROTECTIVE EQUIPMENT					B	
		EYES	SKIN					

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5. FIREFIGHTING MEASURES

5.1	Flashpoint & Method: 64.3°F (18.0°C) TCC
5.2	Autoignition Temperature: NA
5.3	Flammability Limits: Lower Explosive Limit (LEL): 3.3% Upper Explosive Limit (UEL): 19%
5.4	Fire & Explosion Hazards: Vapors are heavier than air. If involved in a fire, toxic gases can form.
5.5	Extinguishing Methods: CO₂, Foam, Halon, Dry Chemical, and water spray.
5.6	Firefighting Procedures: Fire should be fought from a safe distance. Keep containers cool until well after the fire is out. Prevent runoff from fire control or dilution from entering sewers, drains, drinking water supply, or any natural waterway. Firefighters should wear full face, self-contained breathing apparatus (MSHA/NIOSH approved or the equivalent) and impervious protective clothing.



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 ≥ 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.
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7. HANDLING & STORAGE INFORMATION

7.1	Work & Hygiene Practices: Wash hands thoroughly after using this product and before eating, drinking, or smoking.
7.2	Storage & Handling: Use and store in a cool, dry, well-ventilated location (e.g., local exhaust ventilation, fans). Keep away from excessive heat, open flames, sparks, and other possible sources of ignition. Keep away from incompatible materials listed in Section 10. Do not store in damaged or unmarked containers or storage devices. Keep containers securely closed when not in use. Open slowly on a level, stable surface.
7.3	Special Precautions: Empty containers may retain residual amounts of product.

8. EXPOSURE CONTROLS & PERSONAL PROTECTION

8.1	Ventilation & Engineering Controls: Use in a chemical fume hood. Use with adequate ventilation (e.g., open doors and windows, local exhaust ventilation). Ensure appropriate decontamination equipment is available (e.g., sink, safety shower, eye-wash station).
8.2	Respiratory Protection: None required, when used with adequate ventilation.
8.3	Eye Protection: Safety glasses with side shields should be used with this product.
8.4	Hand Protection: None required under normal conditions of use. However, may cause skin irritation in some sensitive individuals. When handling large quantities (e.g., ≥ 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., ≥ 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.



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9. PHYSICAL & CHEMICAL PROPERTIES

9.1	Density:	0.8 (water=1)
9.2	Boiling Point:	174°F (79°C) @ 20mmHg
9.3	Melting Point:	-130°F (-90°C)
9.4	Evaporation Rate:	2.0 (n-BuAc=1)
9.5	Vapor Pressure:	25 @ 70°F
9.6	Molecular Weight:	NA
9.7	Appearance & Color:	Clear, colorless liquid with a mild alcohol odor
9.8	Odor Threshold:	NE
9.9	Solubility:	Complete
9.10	pH	7-9
9.11	Viscosity:	Mobile liquid
9.12	Other Information:	1.6 (Air=1) vapor density

10. STABILITY & REACTIVITY

10.1	Stability:	Stable under normal conditions of use (see section 7).
10.2	Hazardous Decomposition Products:	Irritating vapors and toxic gases (e.g., carbon monoxide and carbon dioxide) when involved in fire.
10.3	Hazardous Polymerization:	Will not occur.
10.4	Conditions to Avoid:	Use or storage near open flames, sparks, high heat (>100°F) or other heat sources, and proximity to incompatible substances and heavily trafficked areas.
10.5	Incompatible Substances:	Strong oxidizing agents, nitrates, strong acids and bases.

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 3.5
11.3	Chronic Toxicity:	See section 3.6
11.4	Suspected Carcinogen:	NE
11.5	Reproductive Toxicity:	This product is not reported to produce 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 produce teratogenic effects in humans.
	Reproductive Toxicity:	This product is not reported to produce reproductive effects in humans.
11.6	Irritancy of Product:	See Section 3.3
11.7	Biological Exposure Indices:	NE
11.8	Physician Recommendations:	Treat symptomatically.

12. ECOLOGICAL INFORMATION

12.1	Environmental Stability:	This product will slowly volatile from soil. Components of this product will slowly decompose into organic compounds.
12.2	Effects on Plants & Animals:	There is no specific data available for this product.
12.3	Effects on Aquatic Life:	Releases of large volumes of this product are expected to be harmful or fatal to overexposed aquatic life.

13. DISPOSAL CONSIDERATIONS

13.1	Waste Disposal:	Dispose of in accordance with federal, state or local regulations.
13.2	Special Considerations:	U.S. EPA WASTE NUMBER: D001 (characteristic - ignitable)

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14. TRANSPORTATION INFORMATION

The basic description (proper shipping name, hazard class & division, ID Number, 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) FLAMMABLE LIQUID, N.O.S. (ethanol, butyl acetate), 3, UN1993, II (> 1.0 L)
14.2	IATA (AIR): CONSUMER COMMODITY, 9, ID8000 (≤ 0.5 L) FLAMMABLE LIQUID, N.O.S. (ethanol, butyl acetate), 3, UN1993, II (> 0.5 L)
14.3	IMDG (OCN): FLAMMABLE LIQUID, N.O.S. (ethanol, butyl acetate), 3, UN1993, II, LTD QTY (≤ 1.0 L) FLAMMABLE LIQUID, N.O.S. (ethanol, butyl acetate), 3, UN1993, 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) FLAMMABLE LIQUID, N.O.S. (ethanol, butyl acetate), 3, UN1993, II (> 1.0 L)
14.5	ADR/RID (EU): 1993 FLAMMABLE LIQUID, N.O.S. (ethanol, butyl acetate), 3, 3°(b), ADR, LTD QTY (≤ 1.0 L)



15. REGULATORY INFORMATION

15.1	SARA Reporting Requirements: NA
15.2	SARA Threshold Planning Quantity: NA
15.3	TSCA Inventory Status: All chemical substances of this product are listed on the TSCA inventory or are otherwise exempt from inventory status.
15.4	CERCLA Reportable Quantity (RQ): NA
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 Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR. The components of this product are listed on the DSL/NDL. None of the components of this product are listed on the Priorities Substances List. Class B2 Flammable Liquid.
15.7	State Regulatory Information: Ethanol and Butyl Acetate is covered under specific state criteria. No components of this product are listed on the California Proposition 65 lists.
15.8	67/548/EEC (European Union) Requirements: The primary component of this product is listed in Annex I of EU Directive 67/548/EEC: Ethanol: Flammable (F): R: 11-20/21/22-36/37/38-40 - Highly flammable. Harmful by inhalation, in contact with skin and if swallowed. Irritating to eyes, respiratory system and skin. S: 7-16-24/25-36/37/39-45 - Keep container tightly closed. Keep away from sources of ignition -- No smoking. Avoid contact with skin and eyes. Wear suitable protective clothing, gloves and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately. Butyl 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.





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16. OTHER INFORMATION

16.1 Other Information:
Warning: Precisely follow directions and MSDS (available through your supplier) for use. **EXTREMELY FLAMMABLE!** Keep away from heat or flame. **Avoid all skin contact.** If redness or other signs of adverse reaction occur, discontinue use immediately. Avoid eye contact. Do not ingest. If swallowed, do not induce vomiting, seek medical attention. **KEEP OUT OF REACH OF CHILDREN.** FOR PROFESSIONAL USE ONLY.

16.2 Terms & Definitions:
See page 7 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 & Creative Nail Design'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.

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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



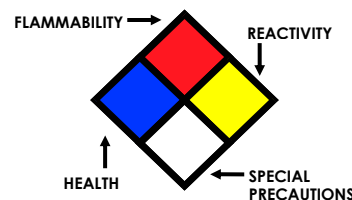
NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

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

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
TLm	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)

EC INFORMATION:

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

PERSONAL PROTECTION RATINGS:

A				
B				
C				
D				
E				
F				

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

OTHER STANDARD ABBREVIATIONS:

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