



MATERIAL SAFETY DATA SHEET

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CND-N-019

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

MSDS Revision: 7.0

MSDS Revision Date: 04/01/2008

1. PRODUCT IDENTIFICATION

1.1	Product Name: REMOVE
1.2	Chemical Name: ACETONE SOLUTION
1.3	Synonyms: Product Remover, Remove
1.4	Trade Names: Remove – Enhancement Remover
1.5	Product Use: FOR PROFESSIONAL USE ONLY
1.6	Distributor's Name: CREATIVE NAIL DESIGN, INC.
1.7	Distributor's Address: 1125 JOSHUA WAY VISTA, CA 92081 USA
1.8	Emergency Phone: CHEMTREC: +1 (800) 424-9300 / +1 (703) 527-3887
1.9	Business Phone: (800) 833-NAIL (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:1088 (2004) and ADG Code (Australia). Flammable liquid.
2.2	Routes of Entry: Inhalation: YES Absorption: YES Ingestion: YES
2.3	Effects of Exposure: INGESTION: Gastrointestinal irritation and central nervous system depressant. EYES: Mild to moderate irritant. SKIN: Potential skin sensitizer. INHALATION: Central nervous system depressant. Irritating to the upper respiratory tract.
2.4	Symptoms of Overexposure: INGESTION: Nausea, vomiting, and diarrhea. EYES: Mild irritation, redness, and watering. SKIN: Excessive use, prolonged or repeated contact may cause dermatitis (rash, redness, dry skin or itching). INHALATION: Mouth, nose, and throat irritation, dizziness, nausea, light-headedness, drunkenness, and loss of coordination.
2.5	Acute Health Effects: INGESTION: Gastrointestinal irritation and central nervous system depression. EYES: Irritation, redness and watering. SKIN: Rash, redness, dry skin or itching. INHALATION: Central nervous system depression. Upper respiratory tract irritation.
2.6	Chronic Health Effects: None known.
2.7	Target Organs: Eyes, skin and respiratory system.

NA = Not Available; ND = Not Determined; NE = Not Established; NF = Not Found; 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/m³)								OTHER
					ACGIH		NOHSC			OSHA			
					ppm		ppm			ppm			
					TLV	STEL	ES-TWA	ES-STEL	ES-PEAK	PEL	STEL	IDLH	
ACETONE	67-64-1	AL3150000	200-662-2	> 90.0	500	750	500	1000	NF	1000	1000	NE	
ISOSTEARYL ISONONANOATE	90967-66-1	NA	NA	< 5.0	NE	NE	NF	NF	NF	NE	NE	NE	
LIMONENE	5989-27-5	GW6360000	227-813-5	< 2.0	NE	NE	NF	NF	NF	NE	NE	NE	ALLERGEN
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	First Aid:	<p>EYES: Flush eyes thoroughly with copious amounts of water for at least 15 minutes, holding eyelid(s) open to ensure complete flushing. Seek immediate medical attention.</p> <p>SKIN: Remove contaminated clothing and wash affected areas with soap and water. Wash all contaminated clothing before reuse. If irritation persists, seek prompt medical attention.</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>INHALATION: Remove victim to fresh air at once. Under extreme conditions, if breathing stops, administer artificial respiration. Seek immediate medical attention.</p>
4.2	Medical Conditions Aggravated by Exposure:	Pre-existing respiratory and skin disorders.

5. FIREFIGHTING MEASURES

5.1	Flashpoint & Method:	0 °F (-18 °C), calculated
5.2	Autoignition Temperature:	869 °F (465 °C), calculated
5.3	Flammability Limits: (Acetone only)	Lower Explosive Limit (LEL): NE Upper Explosive Limit (UEL): NE
5.4	Fire & Explosion Hazards:	This product is an extremely flammable liquid. When involved in a fire, this product may ignite and decompose to form toxic gases (e.g., CO, CO₂, NO_x).
5.5	Extinguishing Methods:	CO₂, Foam, Halon, Dry Chemical or water spray, as authorized.
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. HAZCHEM CODE: 2[Y]E



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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 (3.785 liters)) 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 (3.785 liters), 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 contact with this material. Avoid breathing the vapors generated by this product. Use in a well-ventilated location (e.g., local exhaust ventilation, fans). Wash exposed skin thoroughly with plenty of soap & water after using this product. If necessary, use a moisturizer after washing. Do not eat, drink, or smoke while handling this product.**
- 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. Empty containers may retain residual amounts of product. Therefore, empty containers should be handled with care. As a precaution against exposure to the eyes, nose, throat and face, this product should not be stored higher than waist level. Keep away from children at all times!**
- 7.3 Special Precautions:
- NA**

8. EXPOSURE CONTROLS & PERSONAL PROTECTION

- 8.1 Ventilation & Engineering Controls:
- Mechanical ventilation (e.g., local exhaust ventilation, fans) is required for use with this product.**
- 8.2 Respiratory Protection:
- None required, when used with adequate ventilation (e.g., local exhaust ventilation, fans).**
- 8.3 Eye Protection:
- Wear protective eyewear (e.g., safety glasses with side-shield) at all times when handling this product. Contact lenses pose a special hazard; soft lenses may absorb and concentrate irritants.**
- 8.4 Hand Protection:
- None required under normal conditions of use. When handling large quantities (e.g., \geq 1 gallon (3.785 liters)), 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 (3.785 liters)), an apron should be worn and 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

2

FLAMMABILITY

4

REACTIVITY

0

PROTECTIVE EQUIPMENT

A

EYES

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9. PHYSICAL & CHEMICAL PROPERTIES

9.1	Density:	0.7972 for Acetone (Air=1) Calculated.
9.2	Boiling Point:	133.2 °F (56.2 °C) @ 20mmHg (Acetone) Calculated.
9.3	Melting Point:	NE
9.4	Evaporation Rate:	< 1 (n-BuAc=1) Calculated.
9.5	Vapor Pressure:	NE
9.6	Molecular Weight:	NA
9.7	Appearance & Color:	Clear, light yellow liquid with a fragrant citrus odor.
9.8	Odor Threshold:	ND
9.9	Solubility:	Moderate
9.10	pH	NA
9.11	Viscosity:	NA
9.12	Other Information:	> 2 (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).
10.3	Hazardous Polymerization:	Will not occur.
10.4	Conditions to Avoid:	Open flames, sparks, high heat (> 90 °F (32 °C) or other ignition 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 2.5
11.3	Chronic Toxicity:	See section 2.6
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 2.3
11.7	Biological Exposure Indices:	NE
11.8	Physician Recommendations:	Treat symptomatically.

12. ECOLOGICAL INFORMATION

12.1	Environmental Stability:	This product will slowly volatilize 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.


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13. DISPOSAL CONSIDERATIONS




13.1	Waste Disposal: Waste disposal must be in accordance with appropriate U.S. Federal, state, and local regulations, those of Canada and its provinces, or the applicable standards of E.C. Member States or Australia. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority.
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, SCT, ADGR and the CTDGR.

14.1	49 CFR (GND): CONSUMER COMMODITY, ORM-D (≤ 1.0 L) UN1993, FLAMMABLE LIQUID, N.O.S. (acetone, dipentene), 3, II (> 1.0 L)	
14.2	IATA (AIR): CONSUMER COMMODITY, ORM-D (≤ 0.5 L) UN1993, FLAMMABLE LIQUID, N.O.S. (acetone, dipentene), 3, II (> 0.5 L)	
14.3	IMDG (OCN): UN1993, FLAMMABLE LIQUID, N.O.S. (acetone, dipentene), 3, II, LTD QTY (≤ 1.0 L) UN1993, FLAMMABLE LIQUID, N.O.S. (acetone, dipentene), 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) UN1993, FLAMMABLE LIQUID, N.O.S. (acetone, dipentene), 3, II (> 1.0 L)	
14.5	ADR/RID (EU): UN1993 FLAMMABLE LIQUID, N.O.S. (acetone, dipentene), 3, II, ADR, LTD QTY (≤ 1.0 L)	
14.6	SCT (MEXICO): UN1993, LIQUIDOS INFLAMABLES, N.E.P. (acetone, dipentene), 3, II, CANTIDAD LIMITADA (≤ 1.0 L)	
14.7	ADGR (AUS): UN1993, FLAMMABLE LIQUID, N.O.S. (acetone, dipentene), 3, II, LTD QTY (≤ 1.0 L)	

15. REGULATORY INFORMATION

15.1	U.S. EPA SARA Title III Reporting Requirements: NA	
15.2	U.S. EPA SARA Title III Threshold Planning Quantity (TPQ): NA	
15.3	U.S. U.S. TSCA Inventory Status: All chemical substances of this product are listed on the TSCA inventory or are otherwise exempt from inventory status.	
15.4	U.S. U.S. CERCLA Reportable Quantity (RQ): Acetone: 2275 kg; 5000 lbs.	
15.5	Other U.S. 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	U.S. U.S. State Regulatory Information: Acetone is covered under specific state criteria. No components of this mixture are listed in the California Proposition 65 Lists.	
15.8	European Union 67/548/EEC and Australia NOHSC:2011 (2003) Requirements: The primary component of this product is not listed in Annex I of EU Directive 67/548/EEC. <u>Acetone:</u> Highly Flammable (F+). R: 11-36-66-67 – Highly flammable. Irritating to eyes. Repeated exposure may cause skin dryness or cracking. Vapors may cause drowsiness and dizziness. S: 9-16-23-33 - Keep container in a well-ventilated place. Keep away from sources of ignition - No smoking. Do not breathe the gas, fumes, vapor or spray. Take precautionary measures against static discharges. HAZCHEM CODE: 2IYIE . Poisons Schedule Number: S5	

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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 eye contact. If contact occurs, flush eye thoroughly with running water. Do not ingest. If swallowed, do not induce vomiting; seek medical attention. Use only in a well ventilated area. If redness or other signs of adverse reaction occur, discontinue use immediately. If irritation persists, seek medical attention.
FOR PROFESSIONAL USE ONLY.

16.2 Terms & Definitions:
Please 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 & 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.

16.4 Prepared for:
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16.5 Prepared by:
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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
<p>Note: the dotted circle indicates that this respiratory protective equipment is required for high concentrations or for large volume spills or releases of product.</p>			

FLAMMABILITY LIMITS IN AIR:

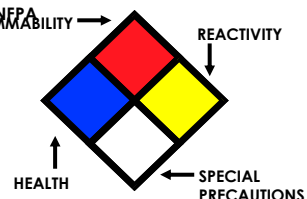
Autoignition Temperature	Minimum temperature required to initiate combustion in air with no other source of ignition
LEL	Lower Explosive Limit - lowest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source
UEL	Upper Explosive Limit - highest percent of 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, TC₁₀, 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