

**SAFETY DATA SHEET**

Revision Date: 10/15/2013

Print Date: 10/15/2013

LACQUER THINNER SCAQMD/CARB

**1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

Mad Chemist

14271 Corporate Drive #C  
Garden Grove, CA 92843

Telephone

1-800-535-5053

Emergency telephone number

1-714-265-3744

Product name

LACQUER THINNER SCAQMD/CARB

Product code

MC-LACQUER-LV

Product Use Description

No data

**2. HAZARDS IDENTIFICATION****Emergency Overview**

Appearance: liquid, Water-white

DANGER! EXTREMELY FLAMMABLE LIQUID AND VAPOR. VAPOR MAY CAUSE FLASH FIRE. MAY AFFECT THE CENTRAL NERVOUS SYSTEM CAUSING DIZZINESS, HEADACHE OR NAUSEA. MAY CAUSE EYE IRRITATION. MAY CAUSE SKIN AND RESPIRATORY TRACT IRRITATION. PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE DERMATITIS AND BURNS.

**Potential Health Effects****Exposure routes**

Inhalation, Skin absorption, Skin contact, Eye Contact, Ingestion

**Eye contact**

Can cause eye irritation. Symptoms include stinging, tearing, redness, and swelling of eyes.

**Skin contact**

Can cause skin irritation. Symptoms may include redness and burning of skin, and other skin damage. Prolonged or repeated contact may dry the skin. Symptoms may include redness, burning, and drying and cracking of skin, skin burns, and other skin damage.

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**Ingestion**

Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful. This material can get into the lungs during swallowing or vomiting. This results in lung inflammation and other lung injury.

**Inhalation**

Breathing of vapor or mist is possible. Breathing small amounts of this material during normal handling is not likely to cause harmful effects. Breathing large amounts may be harmful. Symptoms are not expected at air concentrations below the recommended exposure limits, if applicable (see Section 8.). Breathing air containing n-butyl acetate, which results from its use in aerosol applications, may cause delayed lung injury.

**Aggravated Medical Condition**

Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material: Skin, Upper respiratory tract, lung (for example, asthma-like conditions), Kidney, Central nervous system, blood-forming system, auditory system, Individuals with preexisting heart disorders maybe more susceptible to arrhythmias (irregular heartbeats) if exposed to high concentrations of this material.

**Symptoms**

Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: metallic taste, stomach or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat, airways), runny nose, central nervous system excitation (giddiness, liveliness, light-headed feeling) followed by central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness) and other central nervous system effects, temporary changes in mood and behavior, Lack of coordination, confusion, irregular heartbeat, high blood sugar, narcosis (dazed or sluggish feeling), coma

**Target Organs**

This material (or a component) shortens the time of onset or worsens the liver and kidney damage induced by other chemicals., Prolonged intentional toluene abuse may lead to damage to many organ systems having effects on: central and peripheral nervous systems, vision, hearing, liver, kidneys, heart and blood. Such abuse has been associated with brain damage characterized by disturbances in gait, personality changes and loss of memory. Comparable central nervous system effects have not been shown to result from occupational exposure to toluene., Prolonged intentional toluene abuse may lead to hearing loss progressing to deafness. In addition, while noise is known to cause hearing loss in humans, it has been suggested that workers exposed to organic solvents, including toluene, along with noise may suffer greater hearing loss than would be expected from exposure to noise alone., Overexposure to this material (or its components) has been suggested as a cause of the following effects in laboratory

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animals:, mild, reversible liver effects, mild, reversible kidney effects, blood abnormalities, respiratory tract damage (nose, throat, and airways), effects on hearing, central nervous system damage, Overexposure to this material (or its components) has been suggested as a cause of the following effects in humans:, kidney damage

**Carcinogenicity**

This material is not listed as a carcinogen by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP), or the Occupational Safety and Health Administration (OSHA).

**Reproductive hazard**

This material (or a component) has been shown to cause harm to the fetus in laboratory animal studies. Harm to the fetus occurs only at exposure levels that harm the pregnant animal. The relevance of these findings to humans is uncertain., Toluene may be harmful to the human fetus based on positive test results with laboratory animals. Case studies show that prolonged intentional abuse of toluene during pregnancy can cause birth defects in humans.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

<b>Hazardous Components</b>	<b>CAS-No.</b>	<b>Concentration</b>
ACETONE	67-64-1	>=90-<=100%
TOLUENE	108-88-3	>=1.5-<5%
N-BUTYL ACETATE	123-86-4	>=1-<1.5%

**4. FIRST AID MEASURES****Eyes**

If symptoms develop, immediately move individual away from exposure and into fresh air. Flush eyes gently with water for at least 15 minutes while holding eyelids apart; seek immediate medical attention.

**Skin**

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Remove contaminated clothing. Flush exposed area with large amounts of water. If skin is damaged, seek immediate medical attention. If skin is not damaged and symptoms persist, seek medical attention. Launder clothing before reuse.

**Ingestion**

Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. Contact a physician, medical facility, or poison control center for advice about whether to induce vomiting. If possible, do not leave individual unattended.

**Inhalation**

If symptoms develop, move individual away from exposure and into fresh air. If symptoms persist, seek medical attention. If breathing is difficult, administer oxygen. Keep person warm and quiet; seek immediate medical attention.

**Notes to physician**

**Hazards:** This material (or a component) has produced hyperglycemia and ketosis following substantial ingestion. Inhalation of high concentrations of this material, as could occur in enclosed spaces or during deliberate abuse, may be associated with cardiac arrhythmias. Sympathomimetic drugs may initiate cardiac arrhythmias in persons exposed to this material. This material is an aspiration hazard. Potential danger from aspiration must be weighed against possible oral toxicity (See Section 2 - Swallowing) when deciding whether to induce vomiting.

**Treatment:** No information available.

**5. FIRE-FIGHTING MEASURES****Suitable extinguishing media**

Dry chemical, Carbon dioxide (CO<sub>2</sub>), Water spray

**Hazardous combustion products**

carbon dioxide and carbon monoxide, Hydrocarbons

**Precautions for fire-fighting**

Material is volatile and readily gives off vapors which may travel along the ground or be moved by ventilation and ignited by pilot lights, flames, sparks, heaters, smoking, electric motors, static discharge or other ignition sources at locations near the material handling point. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively. Wear full firefighting turn-out gear (full Bunker gear), and respiratory protection (SCBA).

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Water may be ineffective for extinguishment unless used under favorable conditions by experienced fire fighters. Use water spray to cool fire exposed containers and structures until fire is out if it can be done with minimal risk. Avoid spreading burning material with water used for cooling purposes.

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions**

For personal protection see section 8. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Ensure adequate ventilation. Eliminate all ignition sources (flares, flames including pilot lights, electrical sparks). Pay attention to the spreading of gases especially at ground level (heavier than air) and to the direction of the wind.

**Environmental precautions**

Prevent spreading over a wide area (e.g. by containment or oil barriers). Do not let product enter drains. Do not flush into surface water or sanitary sewer system. Local authorities should be advised if significant spillages cannot be contained.

**Methods for cleaning up**

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

**Other information**

Comply with all applicable federal, state, and local regulations. Suppress (knock down) gases/vapours/mists with a water spray jet.

**7. HANDLING AND STORAGE****Handling**

Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed. Static ignition hazard can result from handling and use. Electrically bond and ground all containers, personnel and equipment before transfer or use of material. Special precautions may be necessary to dissipate static electricity for non-conductive containers. Use proper bonding and grounding during product transfer as described in National Fire Protection Association document NFPA 77.

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**Storage**

Store in a cool, dry, ventilated area, away from incompatible substances.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Exposure Guidelines**

<b>ACETONE</b>		<b>67-64-1</b>
ACGIH	time weighted average	500 ppm
ACGIH	Short term exposure limit	750 ppm
NIOSH	Recommended exposure limit (REL):	250 ppm
NIOSH	Recommended exposure limit (REL):	590 mg/m3
OSHA Z1	Permissible exposure limit	1,000 ppm
OSHA Z1	Permissible exposure limit	2,400 mg/m3
<b>TOLUENE</b>		<b>108-88-3</b>
ACGIH	time weighted average	20 ppm
NIOSH	Recommended exposure limit (REL):	100 ppm
NIOSH	Recommended exposure limit (REL):	375 mg/m3
NIOSH	Short term exposure limit	150 ppm
NIOSH	Short term exposure limit	560 mg/m3
OSHA Z2	time weighted average	200 ppm
OSHA Z2	Ceiling Limit Value:	300 ppm
OSHA Z2	Maximum concentration:	500 ppm
<b>N-BUTYL ACETATE</b>		<b>123-86-4</b>
ACGIH	time weighted average	150 ppm
ACGIH	Short term exposure limit	200 ppm
NIOSH	Recommended exposure limit (REL):	150 ppm
NIOSH	Recommended exposure limit (REL):	710 mg/m3
NIOSH	Short term exposure limit	200 ppm
NIOSH	Short term exposure limit	950 mg/m3
OSHA Z1	Permissible exposure limit	150 ppm
OSHA Z1	Permissible exposure limit	710 mg/m3

**General advice**

These recommendations provide general guidance for handling this product. Personal protective equipment should be selected for individual applications and should consider factors which affect

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exposure potential, such as handling practices, chemical concentrations and ventilation. It is ultimately the responsibility of the employer to follow regulatory guidelines established by local authorities.

**Exposure controls**

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

**Eye protection**

Wear chemical splash goggles when there is the potential for exposure of the eyes to liquid, vapor or mist.

**Skin and body protection**

Wear normal work clothing including long pants, long-sleeved shirts and foot covering to prevent direct contact of the product with the skin. Launder clothing before reuse. If skin irritation develops, contact your facility health and safety professional or your local safety equipment supplier to determine the proper personal protective equipment for your use.

Wear resistant gloves (consult your safety equipment supplier).

Discard gloves that show tears, pinholes, or signs of wear.

**Respiratory protection**

A NIOSH-approved air-purifying respirator with an appropriate cartridge and/or filter may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits (if applicable) or if overexposure has otherwise been determined. Protection provided by air-purifying respirators is limited. Use a positive pressure, air-supplied respirator if there is any potential for uncontrolled release, exposure levels are not known or any other circumstances where an air-purifying respirator may not provide adequate protection.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Physical state</b>	liquid
<b>Form</b>	no data available
<b>Colour</b>	Water-white
<b>Odour</b>	no data available
<b>Boiling point/boiling range</b>	no data available
<b>Melting point/range</b>	no data available
<b>Sublimation point</b>	no data available
<b>pH</b>	no data available

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<b>Flash point</b>	-4.00 °F / -20.00 °C Tag closed cup
<b>Ignition temperature</b>	no data available
<b>Evaporation rate</b>	no data available
<b>Lower explosion limit/Upper explosion limit</b>	no data available
<b>Particle size</b>	no data available
<b>Vapour pressure</b>	307.969 hPa @ 77 °F / 25 °C Calculated Vapor Pressure
<b>Relative vapour density</b>	no data available
<b>Density</b>	0.793 g/cm <sup>3</sup> @ 68 °F / 20 °C 6.610 lb/gal @ 68 °F / 20 °C
<b>Bulk density</b>	No data
<b>Water solubility</b>	no data available
<b>Solubility(ies)</b>	no data available
<b>Partition coefficient: n-octanol/water</b>	no data available
<b>log Pow</b>	no data available
<b>Autoignition temperature</b>	no data available
<b>Viscosity, dynamic</b>	no data available
<b>Viscosity, kinematic</b>	no data available
<b>Solids in Solution</b>	no data available
<b>Decomposition temperature</b>	no data available
<b>Burning number</b>	no data available
<b>Dust explosion constant</b>	no data available
<b>Minimum ignition energy</b>	no data available

**10. STABILITY AND REACTIVITY****Stability**

Stable.

**Conditions to avoid**

Heat, flames and sparks.

**Incompatible products**

Acids, alkalis, Amines, Ammonia, halogens, nitrates, organic absorbents such as sawdust, peat moss, ground corn cobs, etc., peroxides, Reducing agents, Strong oxidizing agents

**Hazardous decomposition products**

carbon dioxide and carbon monoxide, Hydrocarbons



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**Hazardous reactions**

Product will not undergo hazardous polymerization.

**Thermal decomposition**

No data

**11. TOXICOLOGICAL INFORMATION****Acute oral toxicity**

ACETONE : LD 50 Rat: 5,800 mg/kg

TOLUENE : LD 50 Rat: 2.6 g/kg

N-BUTYL ACETATE : LD 50 Rat: 10.8 g/kg

**Acute inhalation toxicity**

ACETONE : LC 50 Rat: > 16000 ppm; 4 h

TOLUENE : LC 50 Rat: 8000 ppm; 4 h  
LC 50 Rat: 8,000 mg/l; 4 h  
LC 50 Rat: 12,200 mg/l; 2 h

N-BUTYL ACETATE : LC 50 Wistar rat: 160 mg/l; 4 h

**Acute dermal toxicity**

ACETONE : LD 50 Rabbit: > 20,000 mg/kg

TOLUENE : LD 50 Rabbit: 12,124 mg/kg

N-BUTYL ACETATE : LD 50 Rabbit: 17,600 mg/kg

**12. ECOLOGICAL INFORMATION****Biodegradability**

ACETONE : no data available

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TOLUENE : no data available

N-BUTYL ACETATE : no data available

**Bioaccumulation**

ACETONE : no data available

TOLUENE : Species: Ide, silver or golden orfe (*Leuciscus idus*)  
Exposure time: 3 d  
Dose: 0.05 mg/l  
Bioconcentration factor (BCF): 94  
Method: Not reported

N-BUTYL ACETATE : no data available

**Ecotoxicity effects**

**Toxicity to fish**

ACETONE : 96 h static test LC 50 Rainbow trout,donaldson trout  
(*Oncorhynchus mykiss*): 4,740.00 - 6,330.00 mg/l  
96 h static test LC 50 Bluegill (*Lepomis macrochirus*):  
8,300.00 mg/l  
96 h flow-through test LC 50 Fathead minnow  
(*Pimephales promelas*): 8,733.00 - 9,482.00 mg/l

TOLUENE : 96 h Renewal LC 50 Rainbow trout,donaldson trout  
(*Oncorhynchus mykiss*): 5.80 mg/l  
96 h static test LC 50 Fathead minnow (*Pimephales*  
*promelas*): 12.60 mg/l

N-BUTYL ACETATE : 96 h LC 50 *Pimephales promelas* (fathead minnow):  
17.00 - 19.00 mg/l Method: Flow through; Mortality  
96 h LC 50 Fathead minnow (*Pimephales promelas*):  
17.00 - 19.00 mg/l Method: Flow through; Mortality  
96 h LC 50 *Danio rerio* (zebra fish): 62.00 mg/l  
Method: Static; Mortality

**Toxicity to daphnia and other aquatic invertebrates.**

ACETONE : no data available

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TOLUENE : 48 h static test EC 50 Water flea (Daphnia magna):  
6.00 mg/l

N-BUTYL ACETATE : 24 h LC 50 Water flea (Daphnia magna): 205.00 mg/l  
Method: Static Mortality

**Toxicity to algae**

ACETONE : no data available

TOLUENE : no data available

N-BUTYL ACETATE : no data available

**Toxicity to bacteria**

ACETONE : no data available

TOLUENE : no data available

N-BUTYL ACETATE : no data available

**Biochemical Oxygen Demand (BOD)**

ACETONE : no data available

TOLUENE : no data available

N-BUTYL ACETATE : no data available

**Chemical Oxygen Demand (COD)**

ACETONE : no data available

TOLUENE : no data available

N-BUTYL ACETATE : no data available

**Additional ecological information**

ACETONE : no data available

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TOLUENE : no data available

N-BUTYL ACETATE : no data available

**13. DISPOSAL CONSIDERATIONS**

**Waste disposal methods**

For assistance with your waste management needs - including disposal, recycling and waste stream reduction, contact MADCHEMIST's Regulatory Department at 714-265-3744. Dispose of in accordance with all applicable local, state and federal regulations.

**14. TRANSPORT INFORMATION**

**REGULATION**

ID NUMBER	PROPER SHIPPING NAME	*HAZARD CLASS	SUBSIDIARY HAZARDS	PACKING GROUP	MARINE POLLUTANT / LTD. QTY.
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**U.S. DOT - ROAD**

UN 1993	Flammable liquids, n.o.s. (ACETONE, TOLUENE)	3		II	
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**U.S. DOT - RAIL**

UN 1993	Flammable liquids, n.o.s. (ACETONE, TOLUENE)	3		II	
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**U.S. DOT - INLAND WATERWAYS**

UN 1993	Flammable liquids, n.o.s. (ACETONE, TOLUENE)	3		II	
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**TRANSPORT CANADA - ROAD**

UN 1993	FLAMMABLE LIQUID, N.O.S. (ACETONE, TOLUENE)	3		II	
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**TRANSPORT CANADA - RAIL**

UN	1993	FLAMMABLE LIQUID, N.O.S. (ACETONE, TOLUENE)	3	II
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**TRANSPORT CANADA - INLAND WATERWAYS**

UN	1993	FLAMMABLE LIQUID, N.O.S. (ACETONE, TOLUENE)	3	II
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**INTERNATIONAL MARITIME DANGEROUS GOODS**

UN	1993	FLAMMABLE LIQUID, N.O.S. (ACETONE, TOLUENE)	3	II
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**INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO**

UN	1993	Flammable liquid, n.o.s. (ACETONE, TOLUENE)	3	II
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**INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER**

UN	1993	Flammable liquid, n.o.s. (ACETONE, TOLUENE)	3	II
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**MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND WASTES**

UN	1993	LIQUIDO INFLAMABLE, N.E.P. (ACETONE, TOLUENE)	3	II
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\*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

**15. REGULATORY INFORMATION**

**California Prop. 65**

WARNING! This product contains a chemical known to the State of California to cause cancer.	BENZENE ETHYL BENZENE
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WARNING! This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

TOLUENE  
BENZENE

**SARA Hazard Classification**

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Fire Hazard  
Acute Health Hazard  
Chronic Health Hazard

**SARA 313 Component(s)**

TOLUENE 1.73 %

**New Jersey RTK Label Information**

ACETONE 67-64-1  
TOLUENE 108-88-3  
N-BUTYL ACETATE 123-86-4

**Pennsylvania RTK Label Information**

ACETONE 67-64-1  
TOLUENE 108-88-3  
N-BUTYL ACETATE 123-86-4

**Notification status**

US. Toxic Substances Control Act y (positive listing)  
Canada. Canadian Environmental Protection Act (CEPA). y (positive listing)  
Domestic Substances List (DSL). (Can. Gaz. Part II, Vol. 133)  
Australia. Industrial Chemical (Notification and Assessment) Act y (positive listing)  
New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand y (positive listing)

Japan. Kashin-Hou Law List y (positive listing)  
Korea. Toxic Chemical Control Law (TCCL) List y (positive listing)  
Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act y (positive listing)

China. Inventory of Existing Chemical Substances y (positive listing)

**Reportable quantity - Product**

US. EPA CERCLA Hazardous Substances (40 CFR 302) 5158 lbs

**Reportable quantity-Components**

ACETONE 67-64-1 5000 lbs



	<b>HMIS</b>	<b>NFPA</b>
Health	2*	2

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Flammability	3	3
Physical hazards	0	
Instability		0
Specific Hazard	--	--

**16. OTHER INFORMATION**

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This MSDS has been prepared by MAD CHEMIST's Regulatory Department (1-714-265-3744).