

# Material Safety Data Sheet

## 1. PRODUCT AND COMPANY IDENTIFICATION

### Material Identification

**Product ID:** AL – ACRYLIC LACQUER  
Product Name: ACRYLIC LACQUER  
Product Use: Paint product.  
Date Published: 1/21/2008

### Company Identification

TCP Global  
6695 RASHA STREET  
SAN DIEGO, CA 92121  
Manufacturer's Phone: 1-858-909-2110

### 24-Hour Medical Emergency

**US Phone (CHEMTREC):** 1-800-424-9300  
**International Phone (CHEMTREC):** 1-703-527-3887

## 2. COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS

	Approx Wt%	Hazardous
METHYL ETHYL KETONE 78-93-3	10 - 30	X
TOLUENE 108-88-3	10 - 30	X
1-METHOXY-2-PROPYL ACETATE 108-65-6	10 - 30	X
TITANIUM DIOXIDE 13463-67-7	10 - 30	X
METHYL ISOBUTYL KETONE 108-10-1	3 - 7	X
OXO-HEPTYL ACETATE 90438-79-2	1 - 5	X
CARBON BLACK 1333-86-4	1 - 5	X
2-METHOXY-1-PROPYL ACETATE 70657-70-4	0.1 - 1.0	X

If this section is blank there are no hazardous components per OSHA guidelines.

## 3. HAZARDS IDENTIFICATION

### ACUTE OVEREXPOSURE EFFECTS

#### EYE CONTACT:

Causes severe eye irritation. Redness, itching, burning sensation and visual disturbances may indicate excessive eye contact.

**SKIN CONTACT:**

May cause moderate skin irritation. Dryness, itching, cracking, burning, redness, and swelling are conditions associated with excessive skin contact.

**SKIN ABSORPTION:**

May be absorbed through the skin.

**INHALATION:**

Vapor and/or spray mist may be harmful if inhaled. Vapor irritates eyes, nose, and throat.

**INGESTION:**

Harmful if swallowed.

**SIGNS & SYMPTOMS OF OVEREXPOSURE:**

Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Eye watering, headaches, nausea, dizziness and loss of coordination are indications that solvent levels are too high. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. Dryness, itching, cracking, burning, redness, and swelling are conditions associated with excessive skin contact.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** Not applicable.

**CHRONIC OVEREXPOSURE EFFECTS**

Avoid long-term and repeated contact.

Repeated exposure to vapors above recommended exposure limits (see Section 8) may cause irritation of the respiratory system and permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. This product contains toluene. Toluene inhalation in animals (greater than 1500 ppm) and intentional inhalation of toluene-containing products by humans (e.g. glue) has caused adverse fetal development effects. It has been reported in occupational studies that inhalation exposures to toluene are associated with reproductive effects including spontaneous abortion. However, the methodology and reliability of the results for the studies are questionable. Several other occupational studies indicated that toluene exposure has been associated with impaired color vision. There is some evidence that repeated exposure to organic solvent vapors in combination with constant loud noise can cause greater hearing loss than expected from exposure to noise alone.

The effects of long-term, low level exposures to this product have not been determined. Safe handling of this material on a long-term basis should emphasize the prevention of all contact with this material to avoid any effects from repetitive acute exposures. See Section 11, of this MSDS for a detailed list of chronic health effects information available on individual ingredients in this product.

**4. FIRST AID MEASURES**

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Material Safety Data Sheet information available.

**EYE CONTACT:**

Remove contact lens and pour a gentle stream of warm water through the affected eye for at least 15 minutes. If irritation persists, contact a poison control center, emergency room, or physician as further treatment may be necessary.

**SKIN CONTACT:**

Run a gentle stream of water over the affected area for 15 minutes. A mild soap may be used if available. If any symptoms persist, contact a poison control center, emergency room, or physician as further treatment may be necessary.

**INHALATION:**

Remove from area to fresh air. If symptomatic, contact a poison control center, emergency room or physician for treatment information.

**INGESTION:**

Gently wipe or rinse the inside of the mouth with water. Sips of water may be given. Never give anything by mouth to an unconscious person. Contact a poison control center, emergency room or physician right away as further treatment may be necessary.

## 5. FIRE FIGHTING MEASURES

### FLAMMABLE PROPERTIES

**FLASHPOINT:** 27 Degrees F ( -3 Degrees C)

**FLASHPOINT TEST METHOD:** Pensky-Martens Closed Cup

**UEL:** Not Available.

**LEL:** 1.7

### AUTOIGNITION TEMPERATURE:

Not Available.

### EXTINGUISHING MEDIA:

Use National Fire Protection Association (NFPA) Class B extinguishers (carbon dioxide, dry chemical, or universal aqueous film forming foam) designed to extinguish NFPA Class IB flammable liquid fires. Water spray may be ineffective. Water spray may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

### PROTECTION OF FIREFIGHTERS:

Fire-fighters should wear self-contained breathing apparatus and full protective clothing.

### UNUSUAL FIRE AND EXPLOSION HAZARDS:

Keep this product away from heat, sparks, flame, and other sources of ignition (i.e., pilot lights, electric motors, static electricity). Invisible vapors can travel to a source of ignition and flash back. Do not smoke while using this product. Keep containers tightly closed when not in use. Closed containers may explode when overheated. Do not apply to hot surfaces.

Toxic gases may form when this product comes in contact with extreme heat. May produce hazardous decomposition products when exposed to extreme heat. Extreme heat includes, but is not limited to, flame cutting, brazing, and welding.

## 6. ACCIDENTAL RELEASE MEASURES

### Action to be taken if material is released or spilled:

Provide maximum ventilation. Only personnel equipped with proper respiratory, skin, and eye protection should be permitted in the area. Remove all sources of ignition. Take up spilled material with sand, vermiculite, or other noncombustible absorbent material and place in clean, empty containers for disposal. Only the spilled material and the absorbant should be placed in this container.

## 7. HANDLING AND STORAGE

### PRECAUTIONS TO BE TAKEN DURING HANDLING AND STORAGE:

Vapors may collect in low areas. If this material is part of a multiple component system, read the Material Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts. Containers should be grounded when pouring. Avoid free fall of liquids in excess of a few inches.

### STORAGE:

Do not store above 120 degrees F.(48 degrees C.). Store large quantities in buildings designed and protected for storage of NFPA Class IB flammable liquids.

## 8. PERSONAL PROTECTIVE EQUIPMENT AND EXPOSURE CONTROLS

### ENGINEERING CONTROLS:

Provide general dilution or local exhaust ventilation in volume and pattern to keep the concentration of ingredients listed in Section 8 below the lowest suggested exposure limits, the LEL below the stated limit, and to remove decomposition products during welding or flame cutting.

### PERSONAL PROTECTIVE EQUIPMENT

#### EYES:

Wear chemical-type splash goggles when possibility exists for eye contact due to splashing or spraying liquid, airborne particles, or vapors.

**SKIN/GLOVES:**

Wear protective clothing to prevent skin contact. Apron and gloves should be constructed of: neoprene rubber. No specific permeation/degradation testing have been done on protective clothing for this product. Recommendations for skin protection are based on infrequent contact with this product. For frequent contact or total immersion, contact a manufacturer of protective clothing for appropriate chemical impervious equipment. Clean contaminated clothing and shoes.

**RESPIRATOR:**

Overexposure to vapors may be prevented by ensuring proper ventilation controls, vapor exhaust or fresh air entry. A NIOSH- approved air purifying respirator with the appropriate chemical cartridges or a positive pressure, air-supplied respirator may also reduce exposure. Read the respirator manufacturer's instructions and literature carefully to determine the type of airborne contaminants against which the respirator is effective, its limitations, and how it is to be properly fitted and used. Provide general dilution or local exhaust ventilation in volume and pattern to keep the concentration of ingredients listed in Section 2 below the lowest suggested exposure limits, the LEL below the stated limit, and to remove decomposition products during welding or flame cutting.

**GENERAL HYGIENE - ESTABLISHED EXPOSURE LIMITS**

If Threshold Limit Values (TLVs) have been established by ACGIH, OSHA, Ontario or PPG, they will be listed below. These limits are intended for use in the practice of industrial hygiene as guidelines or recommendations in the control of potential workplace health hazards.

These limits are not a relative index of toxicity and should not be used by anyone without industrial hygiene training.

**Exposure Guidelines****OSHA Permissible Exposure Limits (PEL's)**

Material/ CAS Number	Percent	ACGIH TLV	ACGIH STEL	OSHA PEL	OSHA STEL
METHYL ETHYL KETONE 78-93-3	10 - 30	200 ppm	300 ppm	200 ppm	300 ppm
TOLUENE 108-88-3	10 - 30	20 PPM	Not established	100 ppm	150 ppm
TITANIUM DIOXIDE 13463-67-7	10 - 30	10 mg/m <sup>3</sup>	Not established	10 mg/m <sup>3</sup>	Not established
METHYL ISOBUTYL KETONE 108-10-1	3 - 7	50 PPM	75 PPM	50 ppm	75 ppm
CARBON BLACK 1333-86-4	1 - 5	3.5 mg/m <sup>3</sup>	Not established	3.5 mg/m <sup>3</sup>	Not established

Material/ CAS Number	Percent	Ontario TWA	Ontario STEL
METHYL ETHYL KETONE 78-93-3	10 - 30	200 ppm	300 ppm
TOLUENE 108-88-3	10 - 30	50 PPM	Not established
1-METHOXY-2- PROPYL ACETATE 108-65-6	10 - 30	50 PPM	Not established
TITANIUM DIOXIDE 13463-67-7	10 - 30	10 mg/m <sup>3</sup>	Not established

METHYL ISOBUTYL KETONE 108-10-1	3 - 7	50 PPM	75 PPM
OXO-HEPTYL ACETATE 90438-79-2	1 - 5	50 PPM	Not established
CARBON BLACK 1333-86-4	1 - 5	3.5 mg/m3	Not established

**Key:** ACGIH=American Conference of Governmental Industrial Hygienists; OSHA=Occupational Safety and Health Administration; TLV=Threshold Limit Value; TWA=Time Weighted Average; PEL=Permissible Exposure Limit (1989 Vacated values); IPEL=Internal Permissible Exposure Limit; Ceiling=TLV or PEL Ceiling Limit; STEL=TLV or PEL Short-Term Exposure Limit; Skin= Skin Absorption Designation. [C-Ceiling Limit; S-Potential Skin Absorption; R-Respirable Dust]

**Additional Information** Not applicable.

## 9. PHYSICAL PROPERTIES

(FORMULA VALUES, NOT SALES SPECIFICATIONS)

<b>SPECIFIC GRAVITY:</b>	.786
<b>PHYSICAL STATE:</b>	Liquid
<b>Percent Solids:</b>	54.60
<b>Percent Volatile by Volume:</b>	76.580
<b>pH:</b>	Not available.
<b>ODOR THRESHOLD:</b>	Not available.
<b>Vapour Pressure:</b>	40.8 mmHg
<b>ODOR/APPEARANCE:</b>	Viscous liquid with an odor characteristic of the solvents listed in Section 2.
<b>VAPOR DENSITY:</b>	HEAVIER THAN AIR
<b>Evaporation Rate:</b>	371
<b>BOILING POINT OR RANGE:</b>	172 - 392Degrees F
<b>Freezing Point or Range:</b>	Not Applicable.
<b>Melting Point or Range(°C):</b>	Not Applicable.
<b>Partition coefficient (noctanol/water):</b>	Not Applicable.
<b>WEIGHT PER GALLON:</b>	6.55 (U.S.) / 7.8 (IMPERIAL)

## 10. STABILITY AND REACTIVITY

### STABILITY:

This product is normally stable and will not undergo hazardous reactions.

### CONDITIONS TO AVOID:

None Known.

### INCOMPATIBLE MATERIALS:

Avoid contact with strong alkalis, strong mineral acids, or strong oxidizing agents.

### HAZARDOUS POLYMERIZATION:

None Known.

### HAZARDOUS DECOMPOSITION PRODUCTS:

- Carbon monoxide - Carbon dioxide - Lower molecular weight polymer fractions

## 11. TOXICOLOGICAL INFORMATION

### ACUTE TOXICITY

Material/ CAS Number	Percent	ORAL LD50 (g/kg)	DERMAL LD50 (g/kg)	INHALATION LC50 (mg/l)
METHYL ETHYL KETONE 78-93-3	10 - 30	2.74 g/kg	13.00 g/kg	Not Available
TOLUENE 108-88-3	10 - 30	.64 g/kg	8.39 g/kg	12.50 mg/l 4 hr
1-METHOXY-2- PROPYL ACETATE 108-65-6	10 - 30	8.53 g/kg	5.00 g/kg	Not Available
TITANIUM DIOXIDE 13463-67-7	10 - 30	10.00 g/kg	Not Available	Not Available
METHYL ISOBUTYL KETONE 108-10-1	3 - 7	2.08 g/kg	Not Available	32.77 mg/l 4 hr
CARBON BLACK 1333-86-4	1 - 5	15.40 g/kg	3.00 g/kg	Not Available

### CHRONIC TOXICITY

#### Ingredient Target Organ/Chronic Effects:

- Carcinogen - Reproductive - Ear - Embryotoxin - Teratogen - Brain - Central nervous system - Lung

#### Mutagenicity Toxicity:

This has not been tested for this product.

#### Reproductive Toxicity:

This has not been tested for this product.

### SUPPLEMENTAL HEALTH INFORMATION:

Material/ CAS Number	Percent	Ingredient Specific Animal Data:
METHYL ETHYL KETONE 78-93-3	10 - 30	This product contains methyl ethyl ketone (MEK). MEK has been shown to cause minor embryotoxic/fetotoxic effects in laboratory animals exposed for prolonged periods at high concentrations via inhalation. The potential for human exposure to high concentrations is expected to be low due to the irritating effects of MEK at low concentrations
TITANIUM DIOXIDE 13463-67-7	10 - 30	This product contains titanium dioxide. Animals inhaling massive quantities of titanium dioxide dust in a long-term study developed lung tumors. Studies with humans involved in manufacture of this pigment indicate no increased risk of cancer from exposure.
CARBON BLACK 1333-86-4	1 - 5	This product contains carbon black which has been rated an IARC 2B carcinogen due to animal data.
METHOXY-1- PROPYL ACETATE 70657-70-4	0.1-1.0	Possible reproductive hazard. An ingredient(s) in this product has adversely affected reproductive tissues and fetal development in test animals.

## 12. ECOLOGICAL DATA

### POTENTIAL ENVIRONMENTAL EFFECTS

**Ecotoxicity:** No Information Available.

### ENVIRONMENTAL FATE

**Mobility:** No information available.

**Biodegradation:** No information available.

**Bioaccumulation:** No Information Available.

### PHYSICAL/CHEMICAL

**Hydrolysis:** No information available.

**Photolysis:** No information available.

## 13. DISPOSAL CONSIDERATIONS

Provide maximum ventilation, only personnel equipped with proper respiratory and skin and eye protection should be permitted in the area. Take up spilled material with sawdust, vermiculite, or other absorbent material and place in containers for disposal.

Waste material must be disposed of in accordance with federal, state, provincial and local environmental control regulations. Empty containers should be recycled by an appropriately licensed reconditioner/salvager or disposed of through a permitted waste management facility.

## 14. TRANSPORTATION INFORMATION

**Proper Shipping Name:** PAINT  
**NOS Technical Name:** NONE  
**Hazard Class:** 3  
**Subsidiary Class(es):** NONE  
**UN Number:** UN1263.  
**Packing Group:** II  
**Marine Pollutant Name:** NONE

## 15. REGULATORY INFORMATION

### U.S. FEDERAL REGULATIONS:

Material/ CAS Number	Percent	CERCLA HS – RQ (LBS)	SARA EHS -- TPQ (LBS)	SARA 313
METHYL ETHYL KETONE 78-93-3	10 - 30	5000 lbs	Not Listed	Not Listed
TOLUENE 108-88-3	10 - 30	1000 lbs	Not Listed	Listed
1-METHOXY-2- PROPYL ACETATE 108-65-6	10 - 30	Not Listed	Not Listed	Not Listed

TITANIUM DIOXIDE 13463-67-7	10 - 30	Not Listed	Not Listed	Not Listed
METHYL ISOBUTYL KETONE 108-10-1	3 - 7	5000 lbs	Not Listed	Listed
OXO-HEPTYL ACETATE 90438-79-2	1 - 5	Not Listed	Not Listed	Not Listed
CARBON BLACK 1333-86-4	1 - 5	Not Listed	Not Listed	Not Listed
2-METHOXY-1-PROPYL ACETATE 70657-70-4	0.1-1.0	Not Listed	Not Listed	Not Listed

**SARA 311/312**

Health (acute): Yes  
 Health (chronic): Yes  
 Fire (flammable): Yes  
 Pressure: No  
 Reactivity: No

**WHMIS HAZARD CLASS:** - Class B, Division 2 - Class D, Division 2, Subdivision A - Class D, Division 2, Subdivision B

**STATE/PROVINCIAL REGULATIONS**

**California Proposition 65:**

WARNING: This product contains a chemical(s) known to the State of California to cause cancer and birth defects or other reproductive harm.

Material/ CAS Number	Percent	IARC Group 1 (Known Human Carc.)	IARC Group 2A (Probable Carc.)	IARC 2B (Suspected Carc.)	ACGIH Carc.	NTP Known Carc.	OSHA Carc.
TITANIUM DIOXIDE 13463-67-7	10 - 30	N	N	Y	N	N	N
CARBON BLACK 1333-86-4	1 - 5	N	N	Y	N	N	Y



**Key:** IARC- International Agency on the Research of Cancer; ACGIH American Conference of Governmental Industrial Hygienists; NTP National Toxicology Program \*Denotes chemical as NTP Known Carcinogen; + Denotes NTP Possible Carcinogen; OSHA Occupational Safety and Health Administration.

## 16. OTHER INFORMATION

### Hazard Rating Systems

**NFPA Rating:** 2 30

**HMIS Rating:** 2\*30

**Rating System:** 0=Minimal, 1=Slight, 2=Moderate, 3=Serious, 4=Severe,  
\*=Chronic Effects.

HMIS=Hazardous Materials Identification System; NFPA=National Fire Protection Association;

Safe handling of this product requires that all of the information on the MSDS be evaluated for specific work environments and conditions of use.

**PREPARED BY:** Product Safety Department

**REASON FOR REVISION:** Date. Edition. Updated MSDS format.

This Material Safety Data Sheet has been prepared in accordance with Canada's Workplace Hazardous Materials Information System (WHMIS) and the OSHA Hazard Communication Standard (29 CFR 1910.1200), the supplier notification requirements of SARA Title III, Section 313 and other applicable right-to-know regulations.

### Disclaimer:

The data on this sheet represent typical values. Since application variables are a major factor in product performance, this information should serve only as a general guide. TCP Global assumes no obligation or liability for use of this information.

UNLESS TCP GLOBAL AGREES OTHERWISE IN WRITING, TCP GLOBAL MAKES NO WARRANTIES, EXPRESS OR IMPLIED, AND DISCLAIMS ALL IMPLIED WARRANTIES INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR FREEDOM FROM PATENT INFRINGEMENT. TCP GLOBAL WILL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES. Your only remedy for any defect in this product is the replacement of the defective product, or a refund of its purchase price, at our option. This MSDS contains additional information required by the state of California.