

MMA SYSTEM - FINISHING SOLVENT

Manufacturer/ Multi-Tech Products
 Distributor 41519 Cherry St.
 Murrieta, CA 92562
 Phone: (951) 834-9066

TCSA Inventory Status: Reported/Included.
 NPCA-HMIS Ratings: Health: 2 Flammability: 3
 Reactivity: 0. Personal protection rating to be
 supplied by user depending on use conditions.

PRODUCT NAME: FINISHING SOLVENT

COMPONENTS

<u>Material</u>	<u>CAS NUMBER</u>	<u>%</u>
*Acetone	67-64-1	9
*Toluene	108-88-3	10
2,2,4-Trimethyl-1 3-Pentanediolmonoisobutyrate	25265-77-4	
*Diethylene Glycol Monobutyl Ether	112-34-5	5
Mixed Dibasic Ethers	NONE	
Propylene Glycol Monomethyl Ether Acetate	108-65-6	
*Ethylene Glycol Monobutyl Ether Acetate	112-07-2	7
VM&P Naphtha	64742-89-8	
Medium Mineral Spirits	64742-88-7	
Aromatic Hydrocarbon	64742-94-5	

*Regulated as a Toxic Chemical under Section 313 of
 Title III of the Superfund Amendments and
 Reauthorization Act of 1986 and 40 CFR part 372.

PHYSICAL DATA

Boiling Point - 54 to 245 degrees C
 % Volatiles - 100 WT %
 Water Solubility - Appreciable
 Density - 6.80 lb/gal
 V.O.C. Theoretical - 6.80 lb/gal

HAZARDOUS REACTIVITY

Instability: Stable at normal temperatures and storage
 conditions.
 Incompatibility: None reasonably foreseeable.
 Decomposition: Decomposes with heat. Hazardous
 gases/vapors produced are carbon monoxide.
 Polymerization: Polymerization will not occur.

FIRE AND EXPLOSION DATA

Flash Point: Below 20 degrees F
 Method: Closed Cup
 Flammable Limits in Air, % by Volume
 LEL: 0.6
 UEL: 13.1

Fire and Explosion Hazards

When heated above the flash point, emits flammable
 vapors which, when mixed with air, can burn or be
 explosive. Fine mist of sprays may be flammable at
 temperatures below the flash point.

Extinguishing Media

Foam. Dry Chemical. CO2.

Special Fire Fighting Instructions

Full protective equipment, including self-contained
 breathing apparatus, is recommended. Water from
 fog nozzles may be used to prevent pressure build-up.

HEALTH HAZARD INFORMATION**ACETONE**

Acetone has very-low toxicity on skin, inhalation, and
 oral exposure. However, prolonged exposures at high
 concentrations, may cause drying of the skin,
 irritation of the eyes, nose and throat; nausea,
 headache, weakness, dizziness, drowsiness,
 confusion, incoordination and loss of consciousness.

TOLUENE

May cause aspiration (liquid entering the lungs during
 ingestion or vomiting) with symptoms of coughing,
 gasping, choking, shortness of breath, bluish
 discoloration of the skin, rapid breathing and heart
 rate and fever. Pulmonary edema or bleeding with
 drowsiness, confusion, coma and seizures may occur.
 Symptoms may be delayed.

May irritate skin, eyes, nose and throat. Inhalation
 may cause nausea, headache, weakness, dizziness,
 confusion, incoordination and loss of consciousness.
 Ingestion may cause upper abdominal pain, "heart
 burn", nausea, vomiting and diarrhea. High and
 prolonged exposures may cause liver, kidney or
 neurological effects and heart irregularities. Gross
 overexposure may cause death.

ETHYLENE GLYCOL MONOBUTYL ETHER ACETATE

In acute toxicity testing in animals, this compound
 was of very low to moderate toxicity by inhalation,
 moderate toxicity by skin contact and slight toxicity
 by ingestion.

It is a skin and eye irritant. Skin permeation may
 occur in toxic amounts.

Based on animal data, high exposures may lead to
 abnormal kidney function and red blood cell
 destruction leading to anemia.

VM&P Naptha

Studies with rats have shown that petroleum
 distillates cause kidney damage and kidney or liver
 tumors. These effects were not seen in similar
 studies with guinea pigs, dogs or monkeys. Studies
 evaluating petroleum workers have not shown a
 significant increase of kidney damage or an increase
 in kidney or liver tumors.

AROMATIC HYDROCARBON

This compound is a skin, eye, nose and throat
 irritant. Skin permeation may occur in toxic
 amounts. Ingestion may cause nausea, headache,
 weakness, dizziness, confusion, incoordination and
 loss of consciousness.

MINERAL SPIRITS

Aspiration (liquid entering the lungs during ingestion or vomiting) may occur if ingested which may result in coughing, gasping, choking, shortness of breath, bluish discoloration of the skin, rapid breathing and heart rate, and fever. Pulmonary edema or bleeding, drowsiness, confusion, coma and seizures may occur. Symptoms may be delayed. Ingestion may cause Nausea, headache, weakness, upper abdominal pain, "heart burn", vomiting and diarrhea. Inhalation may cause dizziness, headache, confusion, incoordination and loss of consciousness. Mineral spirits may irritate skin, eyes, nose and throat.

2,2,4-TRIMETHYL-1, 3-PENTANEDIOL MONOISOBUTYRATE

May irritate skin and eyes.

DIETHYLENE GLYCOL MONOBUTYL ETHER

This compound is a skin and eye irritant. At high or prolonged exposures it may cause dizziness, headache, confusion, incoordination and loss of consciousness. It may cause kidney and liver changes or hematological effects.

MIXED DIBASIC ESTERS

High airborne levels in rats have shown mild injury to olfactory region of the nose.

PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE

May cause moderate eye burning. Recurrent overexposure may result in liver and kidney injury.

CARCINOGENICITY

None of the components in this material is listed by IARC, NTP, OSHA, OR ACGIH as a carcinogen.

APPLICABLE EXPOSURE LIMITS**ACETONE**

AEL * : None Established
 TLV (ACGIH) : 750ppm, 1,780 mg/m³, 8 Hr. TWA
 STEL 1,000ppm, 2,380 mg/m³
 PEL (OSHA) : 750ppm, 1,800 mg/m³, 8 Hr. TWA
 STEL 1,000ppm, 2,400 mg/m³

TOLUENE

AEL * : 100ppm – 8 & 12 Hr. TWA
 TLV (ACGIH) : 100ppm, 377 mg/m³ – 8 Hr. TWA
 STEL 150ppm, 565 mg/m³
 See notice of Intended Changes (1991-92)
 50ppm, 147 mg/m³–8 Hr TWA, skin
 PEL (OSHA) : 100ppm, 375 mg/m³–8 Hr TWA
 STEL 150ppm, 560 mg/m³

DIETHYLENE GLYCOL MONOBUTYL ETHER

AEL * : 5ppm – 8 Hr. TWA
 TLV (ACGIH) : None Established
 PEL (OSHA) : None Established

PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE

AEL * : 10ppm (8 & 12 Hr. TWA)
 TLV (ACGIH) : None Established
 PEL (OSHA) : None Established
 WEEL (AIHA) : 100ppm (8 Hr. TWA)

ETHYLENE GLYCOL MONOBUTYL ETHER ACETATE

AEL * : 20ppm, 8 Hr. TWA, skin

VM&P Naptha

AEL * : 100ppm – 8 Hr. TWA (Varsol 1)
 TLV (ACGIH) : 300ppm, 1,370 mg/m³ – 8 Hr. TWA
 PEL (OSHA) : 300ppm, 1,350 mg/m³ – 8 Hr. TWA
 STEL 400ppm, 1,800 mg/m³

AROMATIC HYDROCARBON

AEL * : 100ppm, 8 Hr. TWA
 TLV (ACGIH) : None Established
 PEL (OSHA) : None Established

*AEL is an Industry Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.

SAFETY PRECAUTIONS

No information available.

FIRST AID**INGESTION: Gastro-intestinal Distress**

In the unlikely event of ingestion, call a physician immediately and have names of ingredients available.

INHALATION

If affected by inhalation of vapor or spray mist, remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing difficulty persists, or occurs later, consult a physician.

SKIN OR EYE CONTACT

May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis. In case of eye contact, immediately flush with plenty of water for at least for 15 minutes, and call a physician. In case of skin contact, wash with soap and water. If irritation occurs, contact a physician.

PROTECTION INFORMATION**Generally Applicable Control Measures and Precautions**

Observe label precautions. Keep away from heat, sparks and flame. Close container after each use. Ground container when pouring. Wash thoroughly after handling and before eating or smoking. Do not store above 120 degrees F.

Do not sand, flame cut, braze or weld dry coating without a NIOSH/MSHA approved respirator or appropriate ventilation.

Personal Protective Equipment
Respiratory

Do not breathe vapors or mists. When this product is used with a paint requiring isocyanate hardener or activator, wear a continuous flow supplied air respirator (NIOSH/MSHA TC-19C approved) when mixing the hardener/activator with the paint, during application and until all vapor and spray mists are exhausted. Do not permit anyone without respiratory protection in the painting area. Refer to the hardener/activator label instructions and MSDS for further information. Follow the respirator manufacturer's directions for respirator use.

Ventilation

Provide sufficient ventilation in volume and pattern to

TLV (ACGIH) : None Established
PEL (OSHA) : None Established

keep contaminants below applicable OSHA requirements.

Protective Clothing

Neoprene gloves and coveralls are recommended.

Eye Protection

Desirable in all industrial situations. Include splash guards or side shields.

The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

DISPOSAL INFORMATION

Aquatic Toxicity

Highly toxic to aquatic life.

Spill, Leak or Release

NOTE: Review FIRE AND EXPLOSION HAZARDS and SAFETY PRECAUTIONS before proceeding with clean up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean up.

Ventilate area. Remove sources of ignition. Prevent skin contact and breathing of vapor. Confine and remove with inert absorbant.

Waste Disposal

Do not allow material to contaminate ground water systems. Incinerate absorbed material in accordance with Federal, State and Local requirements. Do not incinerate in closed containers.

SHIPPING INFORMATION

DOT

Proper Shipping Name: Flammable Liquid N.O.S.
UN/NA No. : UN1993

ADDITIONAL INFORMATION

NA = Not Applicable

NE = Not Established

= New or revised information in this section.

STATE RIGHT-TO-KNOW LAWS

No substances on the state hazardous substances list, for the states indicated below, are used in the manufacture of products on this Material Safety Data Sheet, with the exceptions indicated. While we do not specifically analyze these products, or the raw materials used in their manufacture, for substances on various state hazardous substances lists, to the best of our knowledge the products on this Material Safety Data Sheet contain no such substances except for those specifically listed below:

SUBSTANCES ON THE PENNSYLVANIA HAZARDOUS SUBSTANCES LIST PRESENT AT A CONCENTRATION OF 1% OR MORE (0.1% FOR SPECIAL HAZARDOUS SUBSTANCES): Toluene, Acetone.

WARNING: SUBSTANCES KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER: None known.

WARNING: SUBSTANCES KNOWN TO THE STATE OF CALIFORNIA TO CAUSE BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM: Toluene.

SUBSTANCES ON THE NEW JERSEY WORKPLACE HAZARDOUS SUBSTANCE LIST PRESENT AT A

**CONCENTRATION OF 1% OR MORE (0.1% FOR
SUBSTANCES IDENTIFIED AS CARCINOGENS,
MUTAGENS OR TERATOGENS): Toluene, Acetone.**