The Nail Superstore. MATERIAL SAFETY DATA SHEET

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

CHEMICAL NAME: Methacrylate Monomer

PRODUCT NAME: Artisan UltiMax Liquid

ITEM NUMBER: 119017-20

PRODUCT USE: Organic Process Chemical

DISTRIBUTOR: The Nail Superstore
ADDRESS: 3804 Carnation St.
Franklin Park, IL 60131

24 HR. EMERGENCY TELEPHONE: (800) 535-5053

PREPARATION/UPDATE DATE: 06/04/08 PRINT DATE: 6/30/08

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

ITEM	CHEMICAL NAME	CAS NUMBER:	WT/WT %
01	Ethyl Methacrylate Monomer	97-63-2	60.0-100.0
02	Mono Methacrylate	27813-02-1	0.0-20.0
03	Alkyl Dimethacrylate	109-17-1	0.0-20.0
04	N,N-Dimethyl-p-Toluidine	99-97-8	0.0-2.0

ACGIH		OSHA		Company		
ITEM	TLV-TWA	TLV-STEL	PEL TWA	PEL CEILING	Recommendation	SKIN
01	NE	NE	NE	NE	100 ppm	NE
02	NE	NE	NE	NE	100 ppm	NE
03	NE	NE	NE	NE	100 ppm	NE
04	NE	NE	NE	NE	NE	NE

Note this material contains an inhibitor (HQ, MEHQ, etc) at <1%. The type and amount meet product specifications. Contact manufacturer for exact concentration and details on inhibitor level maintenance.

See Section 16 for Abbreviations.

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

For Monomer:

Physical Hazards: Unstable/Reactive upon depletion of inhibitor. Check

inhibitor levels periodically.

Acute Hazards: Ingestion: Causes irritation, a burning sensation of the mouth, throat

and respiratory tract and abdominal pain.

Eyes: Eye contact may cause irritation with discomfort, tearing,

or blurring of vision.

Inhalation: High concentrations can be irritating to the respiratory tract

and may cause dizziness, headache and anesthetic

effects.

Skin: May cause skin irritation and skin sensitization.

Extensive/prolonged or repeated exposure to this material may result in a more severe skin response. Symptoms

may be delayed.

Chronic Hazards: None Listed.

Note to Physicians:

This product contains N,N-Dimethyl-p-Toluidine at a low concentration (Refer to Section 2). While complications from this component are not expected, absorption leads to formation of methemoglobin, which in sufficient concentration causes cyanosis. Symptoms may include headaches, weakness and dizziness, and can be recognized by the blue color of the lips, fingernails, nose and earlobes. Reversion of methemoglobin to hemoglobin occurs spontaneously after termination of exposure, moderate degree of cyanosis need to be treated only by supportive measures such as bed rest and oxygen inhalation. Thorough cleansing of the entire contaminated area of the body is of utmost importance. If cyanosis is severe, intravenous injection of methylene blue, 1-2 mg/kg body weight over a 5 minute period as a 1 % solution may be of value. If elevated methemoglobin persists after an hour, the treatment may be repeated, but the total dose should not exceed 7 mg/kg body weight. Cyanocobalmin (Vitamin B-12), 1 mg intramuscularly is reported to speed recovery. Intravenous fluids and blood transfusions may be indicated in very severe exposures.

CARCINOGENICITY:

Alkyl Dimethacrylate may contain trace quantities of substances known to the state of California to cause cancer and/or reproductive toxicity. None of the other components of this material are listed by IARC, NTP, OSHA, or ACGIH as carcinogens.

PRIMARY ROUTES OF ENTRY: Inhalation, Skin or Eyes.

SECTION 4 - FIRST AID MEASURES

EMERGENCY AND FIRST AID PROCEDURES:

EYES: If product gets in the eyes, flush with copious amounts of lukewarm water for at

least 15 minutes. If irritation occurs, contact a physician.

INGESTION: If ingested, do not induce vomiting. If product has been swallowed, drink plenty of

water or milk IMMEDIATELY. If the patient is vomiting, continue to offer water or milk. Never give anything by mouth to an unconscious person. Provide an estimate of the time at which the material was ingested and the amount of the substance

that was swallowed. Get medical attention immediately.

INHALATION: Remove to fresh air. Seek immediate medical attention.

SKIN: If irritation occurs and product is on the skin, rinse thoroughly with lukewarm water,

followed by a thorough washing of the effected area with soap and water. If

irritation, redness or swelling persists, contact a physician immediately.

CLOTHING: Remove contaminated clothing, wash thoroughly before reuse. TREATMENT: Treat symptoms conventionally, after thorough decontamination.

SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT: 19 °C, 67°F

FLAMMABLE LIMIT, AIR VOL% LOWER: 1.8

UPPER: Saturation concentration.

AUTOIGNITION TEMPERATURE: 411 °C, 771 °F

EXTINGUISHER METHOD: Chemical foam, carbon dioxide, dry chemical, water spray. FIRE AND EXPLOSION HAZARDS: High temperatures, inhibitor depletion, accidental impurities,

High temperatures, inhibitor depletion, accidental impurities, or exposure to radiation or oxidizers may cause spontaneous

polymerizing reaction generating heat/pressure. Closed containers may rupture or explode during a runaway polymerization. Use a water spray or fog to reduce or direct vapors. Water may not be effective in actually extinguishing a fire involving this product.

SPECIAL FIRE FIGHTING PROCEDURES: This product is a flammable liquid. When involved in a fire, this

product may ignite readily and decompose to produce carbon oxides. Vapors of this product are heavier than air and may travel

to a source of ignition and flash back to a leaking or open container. Do not enter fire area without proper protection. Fight fire from a safe location. Heat/impurities may cause pressure to build and/or rupture closed containers, spreading fire, increasing risk of burns/injuries. Structural firefighters must wear SCBAs and

full protective equipment.

SENSITIVE TO MECHANICAL IMPACT: No. SENSITIVE TO STATIC DISCHARGE: Yes.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE:

Before cleaning any spill or leak, individuals involved must wear appropriate Personal Protective Equipment (e.g., goggles, gloves). 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. Maximize ventilation (open doors and windows) and secure all sources of ignition. Place into appropriate closed container(s) for disposal in accordance with local, state and federal regulations. Wash all affected areas with plenty of warm water and soap. Remove any contaminated clothing and wash thoroughly before reuse. Keep spills and cleaning runoffs out of municipal sewers and open bodies of water.

SECTION 7- HANDLING AND STORAGE

PRECAUTIONS FOR HANDLING: Use local explosion-proof ventilation with a minimum capture

velocity of 100 ft/min (30 m/min) at point of material release. Refer to Industrial Ventilation: A Manual of Recommended Practice published by the American Conference of Governmental Hygienist.

Observe precautions found on label.

PRECAUTIONS FOR STORAGE: Store containers in a cool, dry location, away from direct sunlight,

heat, sparks, flame, other light sources, or sources of intense heat. Keep container closed after each use. Ground and bond all

containers when transferring. Check inhibitor levels

periodically, add to the bulk material if needed. Maintain at a minimum, the original 2-inch headspace in the product container. Do not blanket or mix with oxygen-free gas as it renders the

inhibitor ineffective.

INDUSTRIAL HYGIENE PRACTICES: Avoid contact with skin, eyes, clothing, and prolonged contact with

the product. Use good personal hygiene and housekeeping. After use, wash hands and exposed skin with soap and water. Do not

eat, drink or smoke while handling product.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

VENTILATION: Refer to Section 7 regarding the ventilation requirements for

working with this product. Use explosion-proof local exhaust at processing equipment, including buffers, sanders, grinders and polishers. High temperature processing equipment should be well

ventilated.

RESPIRATORY PROTECTION: A respirator should be worn whenever workplace conditions

warrant a respirators use. None required if airborne

concentrations are maintained below the exposure limit listed in Section 2. If necessary, use only respiratory protection authorized per U.S. OSHA's requirement in 29 CFR §1910.134 or other

appropriate governing standard.

EYE PROTECTION: Depending on the use of this product, splash or safety glasses

may be worn. If necessary, refer to U.S. OSHA 29 CFR

§1910.133, or other appropriate governing standard. Ensure that an eyewash station, sink or washbasin is available in case of

exposure to eyes.

PROTECTIVE GLOVES: If anticipated that prolonged & repeated skin contact will occur

during use of this product, wear chemical resistant gloves for routine industrial use. If necessary, refer to U.S. OSHA 29 CFR

§1910.138, or other appropriate governing standards.

OTHER PROTECTIVE EQUIPMENT: No special body protection is required under typical circumstances

of use and handling. If necessary, refer to appropriate governing

standards. An eyewash station and a safety shower are

recommended.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Clear, colorless liquid.
ODOR: Acrid, ester-like.

pH: ND ODOR THRESHOLD: ND

BOILING POINT: 118 °C, 246 °F **FREEZING POINT:** < -50 °C

VISCOSITY: NE SPECIFIC GRAVITY (H₂O=1): NE

VAPOR PRESSURE: 20 mm/Hg @ 20 °C, 68 °F

PERCENT VOLATILE W/W%: NE VAPOR DENSITY (AIR=1): 3.94 EVAPORATION RATE (BuAc =1): NE

SOLUBILITY IN WATER: 0.5% @ 20 °C, 68 °F

COEFFICIENT OF WATER/OIL DISTRIBUTION: NE

SECTION 10 - STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Temperatures above 21°C, 70°F, localized heat sources (example

drum or band heaters) oxidizing conditions, freezing conditions,

direct sunlight, ultraviolet radiation, inert gas blanketing.

INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers, strong reducers, free radical initiators, inert

gases, oxygen scavengers. Material has strong solvent properties

and can soften paint and rubber.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of Carbon when burned.

HAZARDOUS POLYMERIZATION: MAY OCCUR: X WILL NOT OCCUR:

STABILITY: Unstable/Reactive upon depletion of inhibitor.

SECTION 11- TOXICOLOGICAL PROPERTIES

TARGET ORGANS:

For Ethyl Methacrylate Monomer:

For Mono Methacrylate:

None Listed.

None Listed.

None Listed.

For N,N-Dimethyl-p-Toluidine: Liver, Central Nervous System, Blood and Skin.

REPRODUCTIVE:

For Ethyl Methacrylate Monomer: No information available.

SECTION 11- TOXICOLOGICAL PROPERTIES CONTINUED

TOXICITY DATA:

This product has NOT been tested on animals to obtain toxicology data. There is toxicology data for the components of the product, which is found in scientific literature. Some of this data is presented below.

For Ethyl Methacrylate Monomer:

For N,N-Dimethyl-p-Toluidine:

Inhalation Rat LC_{50} : 254 ppm/4H. Acute Dermal Rat LD_{50} : >2000 mg/kg. Ingestion Rat LD_{50} : 1650 mg/kg.

SECTION 12 - ECOLOGICAL INFORMATION

AQUATIC TOXICITY:

For Monomer: There is no specific data available for this product; however, very large releases of this product may

be harmful or fatal to overexposed aquatic life. There is ecological data for the components of the

product, which is found in scientific literature. Some of this data is presented below.

For Ethyl Methacrylate Monomer:

Daphnia Magna EC_{50} : > 66 mg/L/48H. Rainbow Trout LC_{50} : 100 mg/l/96H. Algae EC_{50} : > 0.70 mg/L/72H.

ENVIRONMENTAL FATE:

For Ethyl Methacrylate Monomer:

Biodegradation: Inherently biodegradable 79% in 28 days.

SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: When discarded it is a characteristic hazardous waste by the EPA

under RCRA with the reportable quantity (RQ) of 1000 pounds (40 CFR Part 302) for the ethyl methacrylate monomer. After addition of excess inhibitor, dispose waste material in accordance with

Federal, State, and Local regulations.

DISPOSAL OF EMPTY CONTAINERS: Reuse of empty drums or containers is not recommended.

Employees should be advised of the potential hazards due to residual flammable material, associated with empty containers Dispose of all empty containers properly, in accordance with

Federal, State and Local regulations.

SECTION 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 and IMDG.

14.1	49 CFR (GND):
	CONSUMER COMMODITY, ORM-D (≤ 1.0 L)
	UN2277, FLAMMABLE LIQUID, N.O.S.(ETHYL METHACRYLATE), 3, II (> 1.0 L)
14.2	IATA (AIR):
	ID8000, 9, CONSUMER COMMODITY (≤ 0.5 L)
	UN2277, FLAMMABLE LIQUID, N.O.S.(ETHYL METHACRYLATE), 3, II (> 0.5 L)
14.3	IMDG (OCN):
	UN2277, FLAMMABLE LIQUID, N.O.S.(ETHYL METHACRYLATE), 3, II, LTD QTY (< 1L)
	UN2277, FLAMMABLE LIQUID, N.O.S.(ETHYL METHACRYLATE), 3, II (> 1.0 L)
	1

SECTION 15 - REGULATORY INFORMATION

US:

TSCA Inventory Status: The components of this product are listed on the TSCA Inventory. There are not any specific Threshold Planning Quantities for the SARA Section 302:

components of this product.

SARA Section 311/312: Immediate (Acute), Delayed (Chronic)

There are not any reporting requirements for this product. SARA Section 313:

CERCLA Reportable Quantity (RQ): For Ethyl Methacrylate: 1000 lb.

State Regulatory Information: This product may contain components that are covered under

specific state criteria.

CANADA:

DSL/NDSL: The components of this product are listed on the DSL.

WHMIS Hazard Class:

Other: 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. None of the components of this product are listed

on the Priorities Substances List.

EUROPE:

The components of this product are listed on EINECS. EINECS:

F- Flammable, Xi - Irritant **HAZARD SYMBOLS:**

RISK STATEMENTS: R11 - Highly Flammable

R36/37/38 - Irritating to eyes, respiratory system, and skin.

R43 - May cause sensitization by skin contact

SAFETY STATEMENTS:

S3 - Keep in a cool place.

S7/9 - Keep container tightly closed and in a well-ventilated place.

S16 - Keep away from sources of ignition - No smoking.

S20 - When using do not eat or drink. S29 - Do not empty into drains.

S33 - Take precautionary measures against static discharges.

S37/39 - Wear suitable gloves and eye/face protection.

SECTION 16 - OTHER INFORMATION

HAZARDOUS MATERIAL IDENTIFICATION SYSTEM (HMIS) RATING:

HEALTH: 2
FLAMMABILITY: 3
REACTIVITY: 2

PERSONAL PROTECTIVE EQUIPMENT: Gloves and Safety Glasses or Chemical Splash Goggles.

ND

Not Determined

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) HAZARD IDENTIFICATION RATING:

HEALTH: 2
FLAMMABILITY: 3
REACTIVITY: 2

ABBREVIATIONS:

Not Applicable

NA

Not Established NE parts per million G Gallon ppm mg Milligram L Liter gm Gram mol Mole kg Kilogram Micro μ mm Millimeter Pico р Pa **Pascals** С cento

LCLethal ConcentrationLDLethal DoseTCToxic ConcentrationTDToxic Dose

BOD Biological Oxygen Demand
Lo Lowest Tho Threshold Limit IC Inhibitory Concentration

COD Chemical Oxygen Demand
Tho Theoretical Oxygen Demand
The Inhibitory Concentration

DOC Dissolved Organic Carbon

H Hours M Months D Days Y Years

W Weeks

ACGIH American Conference of Governmental Industrial Hygienist

CPR Controlled Product's Regulation
DSL Canadian Domestic Substances List
NDSL Canadian Non-domestic Substance List
IARC International Agency for Research for Cancer

NOEL No Observed Effect Level

NOAEL No Observed Adverse Effect Level

OSHA Occupational Safety and Health Administration

PEL Permissible Exposure Limit TLV Threshold Limit Value

The data contained herein is based upon information that The Nail Superstore believes to be reliable. Users of this product have the responsibility to determine the suitability of use and to adopt all necessary precautions to ensure the safety and protection of property and involved in said use. All statements or suggestions are made without warranty, express or implied, regarding accuracy of the information, the hazards connected with the use of the material or results to be obtained form the use thereof.