

8 Conara Road, Kunda Park, 4556 Queensland Australia.

Phone: (07) 5211 0031 Email: info@planetnails.com.au

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SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

CHEMICAL NAME: Methacrylate Monomer Blend

PRODUCT NAME: Crosslinked ethyl methacrylate monomer blend, tinted

TRADE NAME/PRODUCT CODE: P 785 0000

PRODUCT USE: Organic Process Chemical

MANUFACTURER: XXXXXXXXXX

ADDRESS: 8 Conara Road, Kunda Park, 4556 Queensland Australia.

WEBSITE: www.planetnails.com.au

24 HR. EMERGENCY TELEPHONE: (Outside U.S. 1-703-527-3887)

PREPARED BY: D.Beaumont, HEALTH & SAFETYDEPARTMENT

PHONE: 0752110031

E-MAIL: (sales@planetnails.com.au)

Issue Date: 01/07/2020

SECTION 2 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: WARNING – FLAMMABLE LIQUID AND VAPORS. Irritating to eyes, skin and respiratory system. May cause sensitization by skin contact. Unstable/reactive upon depletion of inhibitor.

Routes of Exposure: Inhalation, Skin or Eyes.

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

Acute Health Hazards: See section 11 for more information.

Eyes: Liquid and vapors can cause moderate irritation. Symptoms may include tears, blurred vision and redness.

Skin: May cause skin irritation and can cause skin sensitization. HPMA may cause an allergic skin reaction which becomes evident after repeat exposure. DMPT is rapidly absorbed through the skin.

Inhalation: High concentration is irritating to the respiratory tract and may cause dizziness, headache and anesthetic effects. DMPT may cause high methemoglobin levels in the blood. Additional symptoms may include blueish lips and fingernails.

Ingestion: Causes irritation, a burning sensation of the mouth, throat and gastrointestinal tract and abdominal pain.

Conditions Aggravated by Exposure: May cause more significant skin irritation in people with pre-existing skin conditions. Extensive exposure to DMPT may aggravate cardiac, respiratory and/or skin conditions.

Chronic Health Hazards: See section 11 for details.

Carcinogenicity: See section 11 details.

Potential Environmental: See section 12 for details.

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SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

ITEM	CHEMICAL NAME	CAS#:	EINECS#	R Phrases	WT/WT %
01	Ethyl Methacrylate Monomer	97-63-2	202-597-5	R11, R36/37/38, R43	60.0-100.0
02	Hydroxypropyl Methacrylate (HPMA)	27813-02-1	248-666-3	NA	10.0-30.0
03	Alkyl Dimethacrylate	109-17-1	203-653-1	NA	7.0-13.0
04	Dimethyl-p-Toluidine (DMPT)	99-97-8	202-805-4	R20/21/22, R33	1.0-5.0

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.

SECTION 4 - FIRST AID MEASURES

EMERGENCY AND FIRST AID PROCEDURES:

EYES: If product gets in the eyes, flush with lukewarm water for at least 15

minutes. Ifirritation occurs, contact aphysician.

SKIN: Rinse thoroughly with lukewarm water, followed by a thorough washing of the

affected area with soap and water. If irritation, redness or swelling persists,

contacta physician immediately.

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

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.

CLOTHING: Remove contaminated clothing, wash thoroughly before

reuse. TREATMENT: Treat symptoms conventionally, after thorough decontamination.

NOTE TO PHYSICIANS:

This product contains N,N-Dimethyl-p-Toluidine at a low concentration (Refer to Section 3). While complications from this component are not expected, the presence of this material in the body leads to formation of methemoglobin, which in sufficient concentration causes cyanosis. This is reversed spontaneously after termination of

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exposure. Treat cyanosis with supportive measures such as bedrest and oxygen inhalation. Thorough cleanse the entire contaminated area of the body. If extensive cyanosis is present, treat with methylene blue and vitamin B12.

SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT: Refer to Section 9 for details.

SUITABLE EXTINGUISHING MEDIA: Chemical foam, carbon dioxide, dry chemical.

UNSUITABLE EXTINGUISHING MEDIA: Water may not be effective in extinguishing this fire.

PRODUCTS OF COMBUSTION: Oxides of Carbon

FIRE AND EXPLOSION HAZARDS: 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. This product is a flammable liquid. 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. Vapor forms an

explosive mixture with air.

SPECIAL FIRE FIGHTING PROCEDURES: Use a water spray or fog to reduce or direct vapors, and keep

> containers cool. Water may not be effective in actually extinguishing a fire involving this product. Do not enter fire area

without proper protection. Fight fire from a safe location.

Structural firefighters must wear SCBAs and full protective equipment. Heat/impurities may cause pressure to build and/or rupture closed containers, spreading fire, increasing risk of

burns/injuries.

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

SECTION 6 - ACCIDENTAL RELEASEMEASURES

PERSONAL PRECAUTIONS: Review Section 5 before proceeding with clean-up. Individuals involved

> must wear appropriate Personal Protective Equipment that is specified in Section 8. Deny entry to all unprotected individuals. Remove any contaminated clothing and wash thoroughly before reuse.

ENVIRONMENTAL PRECAUTIONS: Keep spills and cleaning runoffs out of municipal sewers and open bodies

of water. US Regulations (CERCLA) require reporting spills and releasesto soil, water and air in excess of reportable quantities. The toll free number for the US Coast Guard National Response Center is (800) 424-8802.

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METHODS FOR CONTAINMENT: Dike and contain spill with inert, non-combustible material (e.g. sand or earth).

METHODS FOR CLEAN-UP: Evacuate personnel, maximize ventilation (open doors and windows) and secure

all sources of ignition. Use good, local ventilation with a minimum capture

velocity of 100 ft/min (30 m/min) at point of monomer release.

Place into appropriate closed container(s) for disposal in accordance with local, state and federal regulations. Refer to Section 13 for additional information. Wash all affected areas with plenty of warm water and soap.

SECTION 7- HANDLING AND STORAGE

HANDLING PROCEDURES: Keep away from heat, sparks, and flame. Keep container closed after

each use. Ground and bond all containers when transferring. Refer to Section 8 for suggested exposure controls and personal protection.

Observe precautions found on label.

STORAGE PROCEDURES: Store containers in a cool, dry location, away from direct sunlight, heat,

sparks, flame, other light sources, or sources of intense heat. Store in accordance with National Fire Protection Association recommendations. Check inhibitor levels periodically, adding to the bulk material if needed. Maintain at a minimum, the original 2-inch headspace in the product container and do not blanket or mix with oxygen-free gas as it renders the inhibitor ineffective. Vapors are uninhibited and may form polymers in vents or flame arresters, resulting in blockage of vents. Product residue may remain in empty containers. Observe all label precautions until the container is

cleaned, reconditioned, or destroyed.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

ACGIH	OSHA			
ITEM*	TLV-TWA	TLV-STEL	PEL TWA	PEL CEILING
Ethyl Methacrylate Monomer	NE	NE	NE	NE
Hydroxypropyl Methacrylate (HPMA)	NE	NE	NE	NE
Alkyl Dimethacrylate	NE	NE	NE	NE
Dimethyl-p-Toluidine	NE	NE	NE	NE

ENGINEERING CONTROLS:

Use local explosion-proof ventilation that is adequate to keep employee exposure to airborne concentrations below exposure limits. Please refer to the ACGIH document, *Industrial Ventilation, AManual of Recommended Practices*, most recent edition, for details.

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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 above. If necessary, use only respiratory protection authorized per U.S. OSHA's requirement in 29 CFR §1910.134 or other appropriate governing standard.

EYE/FACE PROTECTION:

Wear safety glasses, chemical goggles when splashing is possible, when dealing with this material. 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.

HAND/SKIN PROTECTION:

Avoid skin contact. Wear chemical resistant gloves for routine industrial use. If necessary, refer to U.S. OSHA 29 CFR §1910.138, or other appropriate governing standards. Wear impervious clothing to prevent ANY contact with this product, such as gloves, apron, boots, or whole body suit. Nitrile rubber is better than PVC.

GENERAL HYGIENE CONSIDERATIONS:

Wash thoroughly after handling. An eyewash station and a safety shower are recommended. Food, beverages, and tobacco products should not be carried, stored, or consumed where this material is in use. Wash hands thoroughly before eating, drinking, or smoking.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

For EMA: APPEARANCE/COLOR: Clear PHYSICAL STATE: Oily liquid. ODOR: Acrid odor. **ODOR THRESHOLD:** ND PH: NE **FREEZING POINT:** <-50 C **BOILING POINT:** 118 C FLASH POINT (closed cup): 19 C **EVAPORATION RATE**(BuAc =1): NE FLAMMABLE LIMIT, AIR VOL% LOWER: 1.8 FLAMMABLE LIMIT, AIR VOL% UPPER: NE **VAPOR PRESSURE:** 20 mm Hg @ 20 C, 68 F **VAPOR DENSITY (AIR=1):** 3.94 **RELATIVE DENSITY:** NF SPECIFIC GRAVITY (H₂O=1): 0.909 @ 20 C, 68 F **SOLUBILITY IN WATER:** 0.5% @ 20 C, 68 F **AUTOIGNITION TEMPERATURE:** NE

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DECOMPOSITION TEMPERATURE: ND **PERCENT VOLATILEW/**W%: NE

SECTION 10 - STABILITY AND REACTIVITY

STABILITY: Unstable/Reactive upon depletion of inhibitor and/or heat.

CONDITIONS TO AVOID: Avoid excessive temperatures, localized heat sources

(example drum or band heaters), oxidizing conditions, freezing conditions, direct sunlight, ultraviolet radiation, inert

gas blanketing.

INCOMPATIBLE MATERIALS: 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:

POSSIBILITY OF HAZARDOUS REACTIONS: MAY OCCUR: X WILL NOT OCCUR:

SECTION 11- TOXICOLOGICAL PROPERTIES

For Ethyl Methacrylate: None known. For Hydroxypropyl

Methacrylate: None known.

For Alkyl Dimethacrylate: None known.

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

SYMPTOMS: Refer to Section 2 for information.

IMMEDIATE/DELAYED EFFECTS: Refer to Section 2 for information.

TOXICITY DATA:

This product has NOT been tested on animals to obtain toxicology data. There are extensive toxicological data available on the various components of this product. An adequate representation of all these data is beyond the scope of this document. If you need more information, please contact Esschem at the telephone number found in Section 1. Some data is presented below:



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For Ethyl Methacrylate Monomer:

For HPMA:	Inhalation Rat, LC ₅₀ : Oral Rat, LD ₅₀ : Skin absorption, Rabbit, LD ₅₀ :Oral Rat, LD ₅₀ :	8300 ppm/4H. 13468 mg/kg. >10,000 mg/kg. >5000 mg/kg.
For N,N-Dimethyl-p-Toluidine:	Inhalation Rat, LC ₅₀ :Oral Rat, LD ₅₀ :	2540 ppm/4H. 1650 mg/kg.

SENSITIZATION:

For HPMA: Acute Dermal Rat, LD $_{50}$: >5000 mg/kg. For N,N-Dimethyl-p-Toluidine: Acute Dermal Rat, LD $_{50}$: >2000 mg/kg.

IRRITANCY:

No data available.

CHRONIC EXPOSURE:

Carcinogenicity: None of the components of this material are listed by IARC, NTP, OSHA, or ACGIHas

carcinogens. Ethyl Methacrylate is unlikely to present a cancer hazard to humans. Ethyl Methacrylate has been used for many years with no evidence of adverse

effects.

No data

Reproductive Toxicity:

available.Teratogenicity:

available.

Mutagenicity Data: Ethyl Methacrylate is not reported to produce mutagenic effects in humans.

NAME OF TOXICOLOGICALLY SYNERGISTIC PRODUCTS: No data available.

SECTION 12 - ECOLOGICAL INFORMATION

ECOTOXICITY:

AQUATIC:

For Ethyl Methacrylate Monomer: Daphnia Magna, EC₅₀: > 66 mg/L/48H.

Rainbow Trout, LC_{50} : 100 mg/L/96H. Algae, EC_{50} : >70 mg/L/72H.

SOIL: No data available.
AIR: No data available.

ENVIRONMENTAL FATE:

Persistence and Degradability: For Ethyl Methacrylate Monomer:

Biodegradation: Inherently biodegradable 79% in 28 days.

Bioaccumulative Potential: None known.

Mobility in soil: Not known.

Other Adverse effects: None known

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SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD:

When discarded it is a hazardous waste by the EPA under RCRA. The reportable quantity (RQ) for Ethyl Methacrylate is 1000 pounds (40 CFR Part 302). 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 – TRANSPORTATIONINFORMATION

DOT (GROUND)

PROPER SHIPPING NAME: ETHYL METHACRYLATE, STABILIZED, SOLUTION

TECHNICAL NAME: Not applicable.

DOT/UN CLASS: 3

NA/UN NUMBER: UN 2277

PACKING GROUP: ||

DOT RQ: For Ethyl Methacrylate: 1000 lb.

MARINE POLLUTANT: No.

SECTION 15 - REGULATORY INFORMATION

United States:

OSHA: This material is considered Hazardous by the OSHA Hazard

Communication Standard (29 CFR 1910.1200)

TSCA Inventory Status: The components of this product are listed or exempt from listing on he

TSCA Inventory.

SARA Section 302: There are no specific Threshold Planning Quantities for the

components of this product.

SARA Section 311/312: Immediate (Acute) Health; Reactive; Fire

SARA Section 313: There are reporting requirements for this product. ContactEsschem

if additional information is required.

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

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

specific state criteria.

California Prop 65: Alkyl Methacrylate monomer contains or may contain substances

known to the state of California to cause cancer and/or

reproductive toxicity.

Canada:

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

WHMIS Hazard Class: B2, D2B

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:

EINECS: The components of this product are listed or exempt from listing in

EINECS. Candidate List: None of the components of this product are listed on the Candidate List.

CSR Available: No.

HAZARD SYMBOLS: F- Flammable, Xi Irritant

RISK STATEMENTS: R11 – Highly Flammable

R20/21/22 - Harmful by inhalation, in contact with skin and if

swallowed.R33 - Danger of cumulative effects

R36/37/38 – Irritating to eyes, respiratory system, and skin.R43 – May cause sensitization by skin contact

SAFETY STATEMENTS: S9 – Keep container in well-ventilated place.

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

S28 - After contact with skin, wash immediately with plenty of

water.S29 – Do not empty into drains.

S33 - Take precautionary measures against static

discharges. S36/37 - Wear suitable protective clothing and

gloves.

S45 - In case of accident or if you feel unwell, seek medical advice

immediately(show the label where possible).

S61 - Avoid release to the environment. Refer to special instructions/Safety

datasheets.

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.



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NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) HAZARD IDENTIFICATION RATING:

HEALTH: 2
FLAMMABILITY: 3
REACTIVITY: 2
SPECIAL INFORMATION: NA

ABBREVIATIONS:

NA Not Applicable ND Not Determined NE Not Established

ppm parts per million G Gallon Litre mg Milligram Gram mol Mole gm Kilogram Micro kg mm Millimetre Pico p Pa **Pascals** cento С

LCLethal ConcentrationLDLethal DoseTCToxic ConcentrationTDToxic Dose

BODBiological Oxygen DemandCODChemical Oxygen DemandLoLowestThODTheoretical Oxygen DemandTLmThreshold LimitICInhibitory 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

CSR Chemical Safety Report

DOT Department of Transportation

DSL Canadian Domestic Substances List

European Inventory of Existing Commercial Chemical SubstancesI

ARC International Agency for Research for Cancer

NDSL Canadian Non-Domestic Substance List

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

TSCA Toxic Substances Control Act

WHMIS Workplace Hazardous Materials Information System



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SECTION 16 - OTHER INFORMATION CONTINUED

Reviewed By: B. Gardocki Health, Safety and Environment

Reviewed By: E. Sobolewski Technical Review

Reviewed By: S. Sheariss Senior Company Officer

Revision Information: Changes have been made to the content of this MSDS as indicated by the thick lines in

theleft margin when compared with the previously issued MSDS. The MSDS has also been formatted to comply with ANSI, GHS, and EU suggested layout. Only data change

information has been highlighted as indicated above.

THIS MATERIAL SAFETY DATA SHEET IS PREPARED IN COMPLIANCE WITH FEDERAL REGULATIONS (29 CFR 1910.1200), THE COMMONWEALTH OF PENNSYLVANIA REGULATIONS (TITLE 34. CHAPTERS 301-323) AND CANADIAN WHMIS REGULATIONS, ANY APPLICABLE STATE AND LOCAL REGULATIONS SHOULD BE CONSULTED. THE ABOVE INFORMATION MAY BE BASED IN PART ON INFORMATION PROVIDED BY COMPONENT SUPPLIERS AND IS BELIEVED TO BE CORRECT AS OF THE DATE HEREOF. HOWEVER, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY USE, OR ANY OTHER WARRANTY IS EXPRESSED OR IS TO BE IMPLIED REGARDING THE ACCURACY OF THESE DATA, THE RESULTS TO BE OBTAINED FROM THE USE OF THE MATERIAL, OR THE HAZARDS CONNECTED WITH SUCH USE. SINCE THE INFORMATION CONTAINED HEREIN MAY BE APPLIED UNDER CONDITIONS BEYOND OUR CONTROL AND WITH WHICH WE MAY BE UNFAMILIAR, AND SINCE DATA MADE AVAILABLE SUBSEQUENT TO THE DATE HEREOF MAY SUGGEST MODIFICATION OF THE INFORMATION, WE ASSUME NO RESPONSIBILITY FOR THE RESULT OF ITS USE. THIS INFORMATION AND MATERIAL IS FURNISHED ON THE CONDITION THAT THE PERSON RECEIVING IT SHALL MAKE HIS/HER OWN DETERMINATION AS TO THE SUITABILITY OF THE MATERIAL FOR HIS/HER PARTICULAR PURPOSE AND ON THE CONDITION THAT HE/SHE ASSUME THE RISK OF HIS/HER USE THEREOF.

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