

Nail Artistry – UV Clear Top Coat MSDS

Section 1: Identification of the Material and Supplier

Product Name: Nail Artistry UV Clear Top Coat

Other Names: UV Cured Nail Sealer

Proper shipping name (ADG Code): UN 1993 Flammable Liquid NOS (ethyl methacrylate, acrylic esters)

Recommended use: As a nail sealer

Supplier: The Nail Shop,
ABN 71 365 073 683
22 Pleasant Grove, Holden Hill SA 5088
Tel: 0416 157 087 (business hours)

Emergency Phone Numbers:

Transport/Fire Emergency: 000 (Emergency services)
Medical Emergency: 131126 (Poisons Information Centre)

Section 2: Hazards Identification

Hazardous according to criteria of Safe Work Australia.

Dangerous Goods.

Risk Phrases: R: 22 Harmful if swallowed.
R: 36/37/38 Irritating to eyes, respiratory system and skin.
R: 43 May cause sensitisation by skin contact.

Safety Phrases: S: 18 Handle and open container with care.
S: 24/25 Avoid contact with skin and eyes.
S: 36/37 Wear suitable protective clothing and gloves.
S: 46 If swallowed seek medical advice immediately.

Section 3: Composition/Information on Ingredients

Ingredients:

Polyurethane oligomer	NE
60-90%	
Tetraethylene glycol dimethacrylate	[109-17-1]
10-30%	
Ethyl methacrylate	[97-63-2]
10-30%	
Hydroxycyclohexyl phenyl ketone	[947-19-3]
<10%	

Section 4: First Aid Measures

For advice, contact a Poisons Information Centre (Phone 131126) or a doctor.

Swallowed: Do not induce vomiting. Give a glassful of water.

Skin: Remove contaminated clothing and wash skin thoroughly.

Eyes: Hold eyes open, flood with water for at least 15 minutes and seek medical advice.

Inhaled: Remove from exposure.

First Aid facilities:

Recommended: Eye wash. Hand wash basin.

Advice to Doctor:

Product consists mainly of acrylates. Irritant by all routes. May cause sensitisation by skin contact. Contact Poisons Information Centre.

Aggravated medical conditions:

Pre-existing skin disorders.

Previous sensitisation to methacrylates.

Section 5: Fire Fighting Measures

HAZCHEM Code: 3[Y]E

Evacuate: Yes.

Extinguishant: Foam or dry agent.

Risk of violent reaction or explosion: Yes.
Vapour is heavier than air - risk of remote ignition.

Products of combustion: Water vapour, oxides of carbon.

Protective Equipment: Breathing apparatus and protective gloves for fire only.

Section 6: Accidental Release Measures

Emergency Procedures:

Shut off all sources of ignition.

Evacuate all unnecessary personnel.

Increase ventilation.

Contain.

Prevent spillages from entering natural waters.

For large spills:

Contain spillage using sand or earth. Transfer liquid and solids to suitable closed container. Treat residues as for small spillage.

For small spills:

Absorb on inert absorbent, transfer to suitable container and arrange removal by disposals company. Wash site of spillage thoroughly with water and detergent. Ventilate area to dispel any residual vapours.

Section 7: Handling and Storage

Precautions for safe handling:

Avoid contact with skin and eyes.
Do not breathe vapour.
Keep away from sources of ignition.

Conditions for safe storage:

Store in a cool, well ventilated place, out of reach of children. Large quantities should be stored in a bunded flammables store. Store in original container. Keep container tightly closed and out of direct sunlight. Keep away from sources of ignition. Prevent vapours from collecting in enclosed or low lying places. Take precautions against static discharges. Keep away from oxidising agents. Protect from physical damage. Clean up all spills and splashes promptly; avoid secondary accidents.

Incompatibles:

Oxidising agents.

Section 8: Exposure Controls/Personal Protection

National Exposure Standards:

ES-TWA: None assigned by NOHSC, but see:
Ethyl methacrylate 50 ppm, 235 mg/m³
[Denmark, Norway]

ES-STEL: None assigned.

ES-PEAK: None.

Notations: None.

Biological Limit Values: No data found.

Engineering Controls:

Use only flame proof equipment.
Ensure adequate ventilation (same as outdoors) when using.
If handling industrial quantities or if aerosol risk exists, consider local mechanical exhaust/extraction to keep airborne contamination as low as possible.
CAUTION: Vapours will not be stabilised and may polymerise inside ventilation systems.

Personal Protective Equipment:

Avoid contact with skin and eyes. Do not breathe vapours.
Personal protection to be selected from those recommended below,
as appropriate to mode of use, quantity handled and degree of
hazard:-

Normal Use:

Eye/face protection
Gloves, rubber or plastic.

Industrial Quantities:

Positive-pressure air hood or full face respiratory fitted
with organic vapour cartridge
Face shield or safety glasses
Gloves, rubber or plastic
Plastic apron, sleeves and boots
Impervious overalls.

Section 9: Physical and Chemical Properties

Appearance:	Clear, semi viscous liquid.
Odour:	Characteristic acrylate
pH:	No data.
Vapour Pressure:	2 kPa @ 20 °C
Vapour Density:	No data (Air = 1)
Boiling Point:	118 °C
Melting Point:	-75 °C
Volatiles:	<30 %
Volatile Organic Compounds (VOC):	<30 %
Evaporation Rate:	No data.
Solubilities:	Immiscible with water.
Specific Gravity/Density:	1.15 (Water = 1)
Flash Point:	43 °C
Flammable Limits:	No data
Dust Explosion:	Not applicable.
Auto-ignition Temperature:	411 °C

Other Information:

Flammable.
Vapour mixes well with air - explosive mixtures are easily formed.
Monomer.
May polymerise violently on exposure to initiators, on warming,
under the influence of UV light, on contact with oxidising/
reducing agents or on depletion of stabiliser.
Slippery when spilled.

Section 10: Stability and Reactivity

Chemical Stability:	Stable under normal conditions.
Conditions to Avoid:	Incompatible materials, heat, UV light.
Incompatible Materials:	Oxidising agents, reducing agents.
Hazardous Decomposition Products:	Oxides of carbon.
Hazardous Reactions:	May polymerise violently on exposure to initiators, on warming, under the influence of UV light, on contact with oxidising/reducing

agents or on depletion of stabiliser.
Contact with oxidising agents may also cause fire.

Section 11: Toxicological Information

Health Effects:

No data available for the mixture. Information presented relates to individual ingredients.

Acute:	Swallowed:	Causes gastrointestinal irritation, burning sensation in the mouth and throat. May cause nausea, vomiting, abdominal pain and diarrhoea.
	Skin:	Irritating to skin. May cause redness and pain.
	Eyes:	Both liquid and concentrated vapours are irritating to eyes. Vapour is lachrymatory, may cause watering, redness and pain. Liquid in the eye may cause irritation and corneal damage.
	Inhaled:	Vapours are irritating to the respiratory system. Symptoms may include coughing and sore throat. High concentrations, or prolonged exposure, may result in central nervous system effects such as lightheadedness, dizziness, abnormal fatigue, memory difficulties, and even loss of consciousness.
Chronic:	Ethyl methacrylate may cause sensitisation by skin contact, leading to an allergic reaction, rashes, itching and swelling on further exposure.	
LD50:	Ethyl methacrylate	14,800 mg/kg oral, rat.
LC50:	Ethyl methacrylate	8,300 ppm/4 hours, rat.

Section 12: Ecological Information

Ecotoxicity:	No data.
Persistence and degradability:	No data.
Mobility:	May be readily transported by running water.
Environmental Fate:	No data.
Bioaccumulative potential:	No data.
Other adverse environmental effects:	No data.

Section 13: Disposal Considerations

The generator of any wastes from this product is responsible for its proper classification, transport and disposal.

Consult appropriate local and State regulations.

Disposal methods and containers:

Avoid disposal to drains, natural waters or the environment.

Special precautions for landfill or incineration:

High temperature incineration.

May not be suitable for landfill.

Section 14: Transport Information

UN Number:	UN 1993
UN Proper shipping name:	Flammable liquid NOS (ethyl methacrylate, acrylic esters)
Class and subsidiary risk:	3 Flammable liquid.
Packaging group:	III
Special precautions for user:	Do not transport or store with classes 1, 2.1 (in bulk), 2.3, 4.2, 5.1, 5.2, or 7. Keep away from sources of ignition. Protect from UV light.
HAZCHEM Code:	3[Y]E
Material for export:	Refer to IMO/IMDG and IATA/ICAO .

Section 15: Regulatory Information

Poisons (SUSDP):	S5 Poison			
Dangerous Goods:	Yes.	UN 1993	3/III	3[Y]E
Carcinogen:	Australia No.	IARC No.	NTP No.	RTECS No.
Agricultural and Veterinary Chemicals Act:	Not applicable.			
Australian Inventory of Chemical Substances (AICS):	Listed.			
Other National/International Regulations:	No data.			

Section 16: Other information

Date of MSDS preparation: August 2015

Abbreviations:

NOHSC - National Occupational Health and Safety Commission.
ACGIH - American Conference of Governmental Industrial Hygienists.
MAK - Maximum workplace concentration - Germany,
(*maximale Arbeitsplatzkonzentration*)
IARC - International Agency for Research on Cancer (France).
NPT - National Toxicology Program (USA).
RTECS - Registry of Toxic Effects of Chemical Substances.
HSE - Health and Safety Executive (United Kingdom).

Literature references:**Available Sources of Data:**

National Code of Practice for the Preparation of Material Safety Data Sheets 2nd Edition [2011(2003)] - NOHSC.
Australian Dangerous Goods Code.
Standard for the Uniform Scheduling of Drugs and Poisons - AHMAC.
Exposure Standards for Atmospheric Contaminants in the Occupational Environment [1003]- NOHSC.
List of Designated Hazardous Substances [10005] - NOHSC.
Merck Index - Merck Inc.
Sax's Dangerous Properties of Industrial Materials - Lewis.
Handbook of Toxic and Hazardous Chemicals and Carcinogens - Sittig.
Handbook of Reactive Chemical Hazards - Bretherick.
Hawley's Condensed Chemical Dictionary - Wiley Interscience.
AUSREG's Chemical Data Package for PCs - AUSREG Consultancy.