

Nail Solutions Prime SDS

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Section 1 - Identification of the Material and Supplier

Chemical nature: Methacrylic acid/ methacrylate ester solution
Trade Name : Nail Solutions Prime
Product Use: Priming agent prior to application of artificial nail enhancements
Creation Date : March 2013
Supplier : J & N Holdings trading as Brisbane Nail Supplies
Shop 10, 521 Beams Rd, Carseldine QLD 4034
Phone : 07 38634699
Fax : 07 38634677
Web : www.brisbanenailsupplies.com.au

Section 2 - Hazards Identification

Hazardous according to criteria of Safe Work Australia
Dangerous according to the Australia Dangerous Goods Code (ADG7)

Risk Phrases:

R: 7 May cause
R: 34 Causes burns
R: 36/37/38 Irritating to eyes, respiratory system and skin
R: 43 May cause sensitisation by skin contact

Safety Phrases:

S: 7 Keep container tightly closed.
S: 9 Keep container in a well ventilated place.
S: 15 Keep away from heat.
S: 16 Keep away from sources of ignition.
S: 26 In case of contact with eyes, rinse immediately with plenty of water & seek medical assistance.
S: 28 After contact with the skin wash with plenty of soap suds
S: 33 Take precautionary measures against static discharges.
S: 36/37/39 Wear suitable protective clothing, gloves and eye protection.
S: 45 In case of an accident or if you feel unwell, seek medical advice immediately (show the label whenever possible)



Corrosive

SUSMP: Not regulated
ADG Classification : Class 8, PGII
UN Number : UN1760 Corrosive liquids, NOS (methacrylic acid, n butyl methacrylate)
Marine Pollutant : May be toxic to marine organisms,

Section 3—Composition/Information on Ingredients

Ingredients:	CAS	Percentage
Methacrylic acid (inhibited)	[79-41-4]	55 %
n Butyl acetate	[123-85-4]	25 %
n Butyl methacrylate (inhibited)	[97-88-1]	15 %
Ethanol (denatured)	[64-17-5]	5%

Section 4 - First Aid Measures

General Information:

You should call the Poisons Information centre if you feel that you have been poisoned by this product.
Phone 13 1126 from anywhere in Australia 24 hours a day, 7 days a week. If possible have a copy of this SDS when you call.



Section 4 - First Aid Measures (Cont)

Swallowed: Do not induce vomiting. Rinse mouth with water and give a glass of water to drink.

Skin: Remove contaminated clothing and wash skin thoroughly with soap and water.

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

Inhaled: Remove from exposure, rest and keep warm.

First Aid facilities:

Recommended: Eye wash. Hand wash basin.

Advice to Doctor:

Product is a mixture containing a high proportion of methacrylic acid, moderate proportions of n butyl acetate, n Butyl methacrylate and a low proportion of ethanol. Corrosive to living tissue and may cause permanent tissue damage. May cause skin sensitisation by contact and may be harmful if absorbed through skin. Contact Poisons Information Centre Ph 13 11 26

Aggravated medical conditions:

Pre-existing skin disorders, pre-sensitisation to acrylates. Compromised respiratory function.

Section 5 - Fire Fighting Measures

HAZCHEM Code: 3 W

Evacuate: Yes.

Extinguishant: Foam or dry agent..

Risk of violent reaction or explosion: Yes. Vapours are heavier than air - risk of remote ignition. Heat may induce polymerisation with rapid release of energy. Closed containers may rupture explosively.

Products of combustion: Oxides of carbon, water vapour, black smoke.

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

Section 6 - Accidental Release Measures

Emergency Procedures:

Evacuate any unnecessary personnel.

Shut off all sources of ignition.

Increase ventilation.

Contain.

Use only non-sparking tools.

Prevent spillages from entering drains, natural waters or the environment.

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 closed 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. Ensure good ventilation to minimize inhalation of vapours. Protect from heat and direct sunlight and keep caps of containers tightly closed.

Conditions for safe storage:

Store in a cool, well ventilated place, out of reach of children. Store in original container. Keep container tightly closed out of direct sunlight in a cool place. Keep away from naked flames and other sources of ignition. Keep away from oxidising agents. Prevent vapours from collecting in enclosed or low lying places. Take precautionary measures against static discharges. Protect from physical damage. Clean up all spills and splashes promptly; avoid secondary accidents.

Incompatibles:

Oxidising agents, reducing agents, peroxides, acids, sources of ignition, heat, sunlight.

Section 8 - Exposure Control and Personal Protection

National Exposure Standards:

ES-TWA: Methacrylic acid 20ppm 70mg/m³ N Butyl Acetate 150ppm 713mg/m³
Ethanol 1000ppm 1880mg/m³
n Butyl methacrylate (none assigned by NOHSC), but see 50ppm, 290mg/m³ (Denmark)

ES-STEL: Methacrylic acid (none assigned by NOHSC) but see 40ppm 140mg/m³ HSE
n Butyl acetate 200ppm, 950mg/m³
n Butyl methacrylate (none assigned by NOHSC) but see 75ppm 450mg/m³ (Sweden)

ES-PEAK: None assigned.

Biological Limit Values: No data.

Engineering Controls:

Use only flame proof equipment and non-sparking tools. Ensure adequate ventilation (same as outdoors) when using. If handling industrial quantities or if aerosol/vapour risk exists, consider local mechanical exhaust/extraction to keep airborne contamination as low as possible.

Personal Protective Equipment:

Avoid contact with skin and eyes. Avoid breathing vapours. Personal protection should take the form of safety eye wear and the use of gloves in sensitized individuals.

Section 9 - Physical and Chemical Properties

Appearance: Clear liquid.
Odour: Pungent , irritating odour
pH: 2.0 - 2.2
Vapour Pressure: 0.97mm Hg at 20 °C
Boiling Point: 161 °C
Melting Point: 15.8 °C
Volatiles: 100
Volatile Organic Compounds (VOC): 100
Evaporation Rate: < 1 (n-butyl acetate = 1)
Solubilities: Completely soluble in water at 20C
Specific Gravity/Density: 1.015 g/mL
Flash Point: 65 °C
Flammable Limits: 1.6 - 8.8 % [methacrylic acid] , 1.2 - 7.6% [n butyl acetate], 2.0 - 8.0% [n butyl methacrylate]
3.3 - 19.0% [ethanol]
Dust Explosion: Not applicable.
Auto-ignition Temperature: 365 °C [methacrylic acid]



Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal conditions.

Conditions to Avoid: Incompatible materials, heat, light, exhaustion of inhibitors.

Incompatible Materials: Oxidising agents, reducing agents, heavy metal ions, amines, hydrochloric acid, alkalis

Hazardous Decomposition Products: Oxides of carbon when burned.

Hazardous Reactions: May polymerise violently on contact with incompatible materials, or on exposure to heat or light (including UV light). If frozen allow to thaw slowly. Do NOT apply heat. Shake gently when thawed to remix inhibitor.

Other information: Contains n butyl acetate, vapours mix readily with air and explosive mixtures are easily formed. Sensitive to light, heat. Incompatible with strong oxidants, metals, strong acids. **The liquid contains a stabiliser, but vapours will not be inhibited and may polymerise without warning in ventilation systems.**

Section 11 - Toxicological Information

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

Acute:

Swallowed: Corrosive. May cause severe and permanent damage to mouth, throat & GIT tract. May cause nausea, vomiting, abdominal pain, cramping, burning sensation, weakness & possible damage to respiratory system.

Skin: Corrosive. May cause redness, pain, blistering and permanent skin damage. Harmful if absorbed through skin.

Eyes: Corrosive. May cause severe and deep burns. May cause permanent tissue damage leading to permanently impaired vision.

Inhaled: Corrosive to lung tissues. May cause shortness of breath, burning sensation, cough and laboured breathing. Exposure to methacrylic acid fumes may cause pulmonary oedema.

Chronic: Repeated or prolonged skin contact may cause allergic skin rashes, itching and swelling which becomes evident on re-exposure to this product. Overexposure may cause liver and kidney damage. Inhalation of n butyl acetate and n butyl methacrylate has caused adverse reproductive effects and birth defects in laboratory animals. (Ref (1) and (2))

LD50: Methacrylic acid 1,060 mg/kg oral, rat, 1,250 mg/kg oral, mouse, 500mg/kg dermal rabbit
n butyl acetate 10,768 mg/kg oral, rat, 6,000mg/kg oral, mouse

TDL0: Methacrylic acid 250 µL/kg oral, child (noted structural damage to airways after systemic exposure)

TCL0: N Butyl acetate 200ppm human (eye irritation, respirator effects, sense of smell affected)

Section 12 - Ecological Information

Ecotoxicity: LC50: 85 mg/L/96 hours, fish.
EC50: 0.59 mg/L/96 hours, algae.

Persistence and degradability: No data.

Mobility: May be readily transported by water.

Environmental Fate: No data.

Bioaccumulative potential: No data.

Other adverse environmental effects: No data.



Section 13—Disposal considerations

Small Spills and empty containers: Wrap in paper and dispose with regular waste.

Large spills: Absorb with a suitable adsorbent and contain in plastic or metal container. Contact local council or a commercial waster disposal service for disposal method.

NOT suitable for disposal into drainage. Potentially toxic to marine organisms.

Section 14 - Transport Information

UN Number: UN 1760

UN Proper shipping name: Corrosive Liquid NOS (methacrylic acid, n butyl methacrylate)

Class and subsidiary risk: 8 Corrosive liquid.

Packaging group: II

Special precautions for user: Keep away from naked flames and other sources of ignition. Protect from heat and direct sunlight. Do not transport with, or store near, dangerous goods classes 1, 2.1 (bulk), 2.3, 4.2, 5.1, 5.2, 7.

HAZCHEM Code: 3 W

Material for export: Refer to **IMDG** and **IATA/ICAO**.

Section 15 - Regulatory Information

Poisons (SUSMP): Not regulated.

Dangerous Goods: Yes. UN 1760 8/II.

Carcinogen:	Australia	IARC	NTP	RTECS
All ingredients	No.	No.	No.	No.

Agricultural and Veterinary Chemicals Act: Not applicable.

Australian Inventory of Chemical Substances (AICS): Listed.

Section 16 - Other Information

Date of SDS preparation: March 2013

Literature references:

- (1) Registry of Toxic Effects of Chemical Substances.
RTECS #: AF7350000
- (2) Registry of Toxic Effects of Chemical Substances.
RTECS #: OZ3675000

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).



Section 16 - Other information (Cont)

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.

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