

## The Nail Shop Non Acetone MSDS Summary Information

### For further information: Please refer to the full MSDS

Issue: July 2014

**PRODUCT:** The Nail Shop Non Acetone

**Other Names:** Flammable Liquid NOS  
( Methyl ethyl ketone, Ethyl acetate, Isopropanol)

**Uses:** Nail polish remover.

<b>UN No.</b>	1993
<b>Dangerous Goods Class</b>	3
<b>Subsidiary Risk</b>	None
<b>Pack Group</b>	II
<b>Hazchem</b>	3[Y]E
<b>SUSMP</b>	S5

**Hazardous Nature:** This product is classified as hazardous under WorkSafe Australia criteria

**Exposure Standards:** Ethyl Acetate: TWA: 720 mg/m3 (200 ppm): STEL: 500 ppm

Isopropanol : TWA 983mg/m3 (400ppm) STEL 1230mg/m3 500ppm

Methyl Ethyl Ketone: TWA 590mg/m3 (200ppm), STEL 885 mg/m3 (300ppm)

#### Physical Characteristics (Typical)

#### Section 9 of MSDS

Appearance	Pink tinted liquid, sharp pungent odour
Boiling Point/ Range (°C):	77
Flash Point (°C):	6
Specific Gravity/ Density (g/ml @ 15°C):	0.84 @ (20oC)
Chemical Stability:	Stable under normal conditions of use
Reactivity:	No decomposition products except on burning or oxidation. See "Fire Fighting Measures" and "Hazardous Reactions"

#### Product Ingredients

#### Section 3 of MSDS

Ethyl Acetate	141-78-6	10-30%
Isopropanol	67-63-0	10-30%
Methyl Ethyl Ketone	78-93-3	10-30%
Water		10-30%

#### Risk Phrases

#### Section 2 of MSDS

R 11	Highly Flammable	R67	Vapours may cause drowsiness & dizziness
R36	Irritating to eyes	R66	Repeated exposure may cause skin dryness or cracking

For further Risk and Safety information, please refer to the full MSDS.

#### DEFINITIONS

Dangerous Goods	Products that are classified as Dangerous for Storage and Transport: these products are allocated a UN No., with accompanying Class, Pack Group, and Sub. Risk, if required. Products that do not have a specific description under the code, but have low flash points, or such, must be classified under their most significant risk, eg. Flammable Goods N.O.S. (Not otherwise specified), UN 1993
Poisonous Substance	Products that are classified under the poisons schedule are a poisonous substance. The proportion of the poison in the product will determine its numerical classification.
Hazardous Substance	Products are considered to be Hazardous if they pose an intrinsic risk to human or environmental health, such as mutagens (able to change DNA), teratogens (able to result in birth defects), carcinogens (able to generate cell abnormalities), etc. Materials are not hazardous substances if they pose risks such as potential for misuse, like flammability, or explosions when heated and ignited.

**1. IDENTIFICATION**

**Product Name:** The Nail Shop Non Acetone  
**Other Names:** Flammable Liquid NOS ( Methyl ethyl ketone, Ethyl acetate, Isopropanol)  
**Recommended Use:** Nail Polish Remover  
**Supplier:** The Nail Shop  
**ABN:** 71 365 073 683  
**Street Address:** 22 Pleasant Grove, Holden Hill SA 5088  
**Telephone:** 0416157087  
**Emergency Phone:** 000

**2. HAZARDS IDENTIFICATION****Health Hazard Classification**

This product is classified as hazardous under WorkSafe Australia criteria

**Hazard Category**

Xi : Irritant

**Risk Phrases**

R 11	Highly Flammable	R36	Irritating to eyes
R67	Vapours may cause drowsiness & dizziness		

**Safety Phrases**

S7/9	Keep container tightly closed and in a well ventilated place.	S 16	Keep away from sources of ignition - No smoking
S 23	Do not breathe gas, fumes, vapour or spray	S 24/25	Avoid contact with skin and eyes
S 26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.	S 29	Do not empty into drains
S 33	Take precautionary measures against static discharges	S43B	In case of fire use sand, earth, chemical powder or alcohol type foam

**Dangerous Goods Classification**

3

**Poisons Schedule**

5

COMPOSITION: Information on Ingredients

Chemical Ingredient	CAS No.	Proportion (%v/v)
Ethyl Acetate	141-78-6	10-30
Isopropanol	67-63-0	10-30
Methyl Ethyl Ketone	78-93-3	10-30
Balance of formulation non hazardous.		

### 3. FIRST AID MEASURES

For advice, contact Poisons Information Centre (Phone Australia: 13 1126) or a doctor.

#### Ingestion

If swallowed, DO NOT induce vomiting. Keep at rest. Seek immediate medical attention.

#### Eye Contact

Flush eyes with large amounts of water until irritation subsides. Seek immediate medical attention.

#### Skin Contact

Flush area with large amounts of water and wash area with soap if available. Remove contaminated clothing, including shoes, and launder before reuse. Seek medical attention for skin irritations.

#### Inhalation

Using proper respiratory protection, immediately remove the affected victim from exposure. Administer artificial respiration if breathing is stopped. Keep at rest. Seek immediate medical attention.

#### First Aid facilities

Provide eye baths and safety showers.

#### Medical Attention

Treat according to symptoms. Avoid gastric lavage: risk of aspiration of product to the lungs with the potential to cause chemical pneumonitis.

### 4. FIRE FIGHTING MEASURES

Shut off product that may 'fuel' a fire if safe to do so. Allow trained personnel to attend a fire in progress, providing firefighters with this Material Safety Data Sheet. Prevent extinguishing media from escaping to drains and waterways.

#### Suitable extinguishing media

Dry chemical or foam

#### Hazards from combustion products

Carbon monoxide and carbon dioxide

#### Precautions for fire fighters and special protective equipment

Full protective clothing and self-contained breathing apparatus

#### Hazchem Code:

3[Y]E

### 5. ACCIDENTAL RELEASE MEASURES

#### Emergency Procedures

Prevent fluid from escaping to drains and waterways. Contain leaking packaging in a containment drum. Prevent vapours from building up in confined areas. Ensure that drain valves are closed at all times. Clean up and report spills immediately.

#### Methods and materials for containment

##### **Major Land Spill**

- Eliminate sources of ignition.
- Warn occupants of downwind areas of possible fire and explosion hazard.
- Prevent liquid from entering sewers, watercourses, or low-lying areas.
- Keep the public away from the area.
- Shut off the source of the spill if possible and safe to do so.

- Advise authorities if substance has entered a watercourse or sewer or has contaminated soil or vegetation.
- Take measures to minimise the effect on the ground water.
- Contain the spilled liquid with sand or earth.
- Recover by pumping – use explosion proof pump or hand pump – or with a suitable absorbent material.
- Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.
- See “First Aid Measures” and “Stability and Reactivity”

## 6. HANDLING AND STORAGE

### Precautions for safe handling

This product is flammable. Do not open near open flame, sources of heat or ignition. No smoking. Keep container closed. Handle containers with care. Open slowly to control possible pressure release. Material will accumulate static charge. Use grounding leads to avoid discharge (electrical spark).

### Conditions for safe storage

Store in a cool, dry place away from direct sunlight. Do not pressurise, cut, heat or weld containers - residual vapours are flammable. This product is flammable and will fuel a fire in progress.

### Incompatible materials

Natural rubbers, polystyrene, vinyl plastics, EDPM

## 7. EXPOSURE CONTROLS: PERSONAL PROTECTION

### National Exposure Standards

Ethyl Acetate : TWA 720mg/m<sup>3</sup> (200ppm), STEL 500ppm

Isopropanol : TWA 983mg/m<sup>3</sup> (400ppm), STEL 500ppm

Methyl Ethyl Ketone: TWA 590mg/m<sup>3</sup> (200ppm), STEL 300ppm

Where the TWA is the highest allowable exposure concentration in a 8 hour day for a five day working week. STEL is the maximum allowable exposure concentration at any time.

### Biological limit values

Not available

### Engineering Controls: Ventilation

The use of local exhaust ventilation is recommended to control process emissions near the source. Provide mechanical ventilation of confined spaces. Use explosion-proof ventilation equipment.

### Personal Protective Equipment

**Respiratory Protection:** Where concentrations in air may exceed the limits described in the National Exposure Standards, it is recommended to use a half-face filter mask to protect from overexposure by inhalation. A type “A” filter material is considered suitable for this product.

**Eye Protection:** Always use safety glasses or a face shield when handling this product.

**Skin/ Body Protection:** Always wear long sleeves and long trousers or coveralls, and enclosed footwear or safety boots when handling this product

## PHYSICAL AND CHEMICAL PROPERTIES

Property	Unit of measurement	Typical value
Appearance	-	Pinked tinted liquid sharp pungent odour
Boiling Point/ Range	°C	77
Flash Point	°C	6
Density @ 15°C	g/ml	0.84 @ (20oC)
Vapour Pressure @ 20°C	kPa	100mm Hg
Explosive Limits (LEL – UEL)	%	1.7 – 12.0
Vapour Density @ 20°C	kPa	Not available
Autoignition Temperature	°C	>350
Viscosity @ 20°C	cSt	Not applicable
Percent Volatiles	%	90
Solubility with Water	% w/w	Miscible

The values listed are indicative of this product's physical and chemical properties. For a full product specification, please consult the Product Data Sheet.

**8. STABILITY AND REACTIVITY****Chemical Stability**

Stable under normal conditions of use

**Conditions to avoid**

Sources of heat and ignition, open flames.

**Hazardous decomposition products**

No decomposition products except on burning or oxidation. See "Fire Fighting Measures" and "Hazardous Reactions"

**Hazardous reactions**

Strong oxidising agents such as hydrogen peroxide, nitric acid, perchloric acid, chromium trioxide.  
Metal acids, alkalis and heat.

**9. TOXICOLOGICAL INFORMATION****Acute Effects*****Ingestion***

Swallowing can result in nausea, vomiting, shortness of breath, headache, drowsiness, and dizziness, loss of consciousness and possible death. Respiratory and CNS depression may occur. Aspiration of ingested product into the lungs may cause chemical pneumonitis.

***Eye Contact***

Vapour and liquid are eye irritants. Symptoms include redness, swelling and temporary corneal damage. Corneal burns are possible with this product.

***Skin Contact***

Contact with skin may result in irritation. Will have a degreasing action on the skin. Repeated or prolonged skin contact may lead to irritant contact dermatitis.

***Inhalation***

Vapour may be irritating to the mucose membranes and respiratory tract. Inhalation of high concentrations can produce central nervous system depression including impaired judgement, loss of coordination, dizziness, nausea, and if exposure is prolonged, loss of consciousness

**Chronic Effects**

Absorption via the skin can produce narcotic effects. People with pre existing disease of the liver and/or kidneys should avoid unnecessary exposure to the product. Long term skin contact may product defatting of the skin and irritant contact dermatitis.

**Other Health Effects Information**

Symptoms of exposure include cough, shortness of breath and dizziness. Questionable carcinogen. Mutation data reported. Experimental teratogenic and reproductive effects reported.

**Toxicological Information**

LD50	Ethyl Acetate: 5620mg/kg oral, rat Isopropanol: 5045 mg/kg oral, rat Methyl Ethyl Ketone: 2,737 mg/kg oral, rat
LC50	Ethyl Acetate: 1,600 ppm/8 hrs, rat Isopropanol: 4,650 ppm/4hrs, rat
TCLo	Ethyl Acetate : 400ppm, human N Butyl Acetate: 200ppm, human Methyl Ethyl Ketone: 100ppm/5 minutes, human

**10. ECOLOGICAL INFORMATION****Ecotoxicity****Aquatic Toxicity**

No data available, but based upon data for similar preparations and components this product is expected to be toxic to aquatic organisms.

**Persistence/ degradability**

This product can degrade rapidly in air. This substance is expected to be removed in wastewater treatment. Based upon data for a similar components or estimated data, this product is expected to biodegrade rapidly and be 'readily' biodegradable according to OECD guidelines.

**Mobility**

Product is highly volatile, but may contaminate groundwater upon entering soil.

**11. DISPOSAL CONSIDERATIONS****Disposal Methods**

Empty packaging should be taken for recycling, recovery or disposal through a suitably qualified or licensed contractor. Care should be taken to ensure compliance with national and local authorities. Packaging may still contain fumes and vapours that are flammable and harmful. Ensure that empty packaging is allowed to dry.

**Special Precautions for Landfill or Incineration**

This product is NOT suitable for disposal by either landfill or via municipal sewers, drains, natural streams or rivers. This product is ashless and can be burned directly in appropriate equipment.

**12. TRANSPORT INFORMATION**

Road and Rail Transport		Marine Transport		Air Transport	
UN No.	1993	UN No.	1993	UN No.	1993
Proper Shipping Name	Flammable Liquid NOS	Proper Shipping Name	Flammable Liquid NOS	Proper Shipping Name	Flammable Liquid NOS
DG Class	3	DG Class	3	DG Class	3
Sub. Risk	None	Sub. Risk	None	Sub. Risk	None
Pack Group	II	Pack Group	II	Pack Group	II
Hazchem	3[Y]E				

**Dangerous Goods Segregation**

This product is classed as Dangerous Goods Class 3, packing group II. Please consult the Australian Dangerous Goods Code for Transport by Road and Rail for information.

**13. REGULATORY INFORMATION**

**Country/ Region:** Australia

**Inventory:** AICS

**Status:** Listed

**Poisons Schedule:** S5

**14. OTHER INFORMATION**

**Reasons for Issue:** Scheduled Review

**Abbreviations:**

AICS: Australian Inventory of Chemical Substances

CAS Number: Chemical Abstracts Number

IARC: International Agency for Research on Cancer

NOHSC: National Occupational Health and Safety Council

**References:**

- Supplier Material Safety Data Sheets
- Sax's Dangerous Properties of Industrial Materials, Richard J. Lewis Snr., pub. Canada (2000)

The information sourced for the preparation of this document was correct and complete at the time of writing to the best of the writer's knowledge. The document represents the commitment to the company's responsibilities surrounding the supply of this product, undertaken in good faith. This document should be taken as a safety guide for the product and its recommended uses, but is in no way an absolute authority. Please consult the relevant legislation and regulations governing the use and storage of this type of product.