### The Nail Shop – Brush on Activator MSDS Summary Information

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

**Issue:** August 2014

<table>
<thead>
<tr>
<th>PRODUCT</th>
<th>UN No.</th>
<th>Dangerous Goods Class</th>
<th>Subsidiary Risk</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Nail Shop Brush On Activator</td>
<td>1090</td>
<td>3</td>
<td>None</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Other Names:</th>
<th></th>
<th>Pack Group</th>
<th>Hazchem</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resin activator</td>
<td></td>
<td>II</td>
<td>2[Y]E</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Uses:</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Curing brush on nail resins</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Pack Sizes:</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>15ml</td>
<td></td>
<td></td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Hazardous Nature:</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>This product is classified as hazardous under SafeWork Australia criteria</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Exposure Standards:</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>TWA (Acetone): 1185 mg/m3 (500 ppm). Vapour Threshold (Acetone): 100 -140 ppm: STEL(Acetone): 2375 mg/m3 (1000 ppm)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Physical Characteristics (Typical):</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance: Clear, colourless liquid</td>
<td></td>
</tr>
<tr>
<td>Boiling Point/ Range (°C): 77</td>
<td></td>
</tr>
<tr>
<td>Flash Point (°C): 20</td>
<td></td>
</tr>
<tr>
<td>Specific Gravity/ Density (g/ml @ 15°C):  Not determined</td>
<td></td>
</tr>
<tr>
<td>Chemical Stability: Stable under normal conditions of use</td>
<td></td>
</tr>
<tr>
<td>Reactivity: Carbon oxides on burning</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Product Ingredients:</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone 67-64-1</td>
<td>&gt; 70</td>
</tr>
<tr>
<td>Ethyl Acetate 141-78-6</td>
<td>&lt; 30</td>
</tr>
<tr>
<td>N,N Dimethyl-p-Toluidine 99-97-8</td>
<td>&lt;1</td>
</tr>
<tr>
<td>Non hazardous components</td>
<td>&lt;1</td>
</tr>
</tbody>
</table>

For further ingredients information, please refer to the full MSDS.

<table>
<thead>
<tr>
<th><strong>Risk Phrases:</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>R 11 Highly flammable</td>
<td>R 36</td>
</tr>
<tr>
<td>R 66 Repeated exposure may cause skin dryness or cracking</td>
<td>R 67 Vapours may cause drowsiness and dizziness</td>
</tr>
</tbody>
</table>

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. |

**SUMMARY INFORMATION ONLY**
1. **IDENTIFICATION**

Product Name: The Nail Shop Brush On Activator  
Other Names: Resin activator, Amine + solvent system  
Chemical Family: Ketones/amines  
Recommended Use: Curing brush on nail resin systems  
Supplier: The Nail Shop  
ABN: 71 365 073 683  
Street Address: 22 Pleasant Grove, Holden Hill SA 5088  
Telephone: 0416 157087

2. **HAZARDS IDENTIFICATION**

Health Hazard Classification  
This product is classified as hazardous under SafeWork Australia criteria  
Hazard Category  
Xi: Irritant  
Risk Phrases  
R 11 Highly flammable  
R 66 Repeated exposure may cause skin dryness or cracking  
R 36 Irritating to eyes  
R 67 Vapours may cause drowsiness and dizziness  
Safety Phrases  
S 2 Keep out of reach of children  
S 9 Keep container in a well ventilated place  
S 16 Keep away from sources of ignition - No smoking  
S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

Dangerous Goods Classification  
3  
Poisons Schedule  
5

3. **COMPOSITION: Information on Ingredients**

<table>
<thead>
<tr>
<th>Chemical Ingredient</th>
<th>CAS No.</th>
<th>Proportion (%v/v)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone</td>
<td>67-64-1</td>
<td>&gt; 99.5</td>
</tr>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>&lt; 0.5</td>
</tr>
</tbody>
</table>

4. **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.

5. 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
Water fog or fine spray mist

Hazards from combustion products
Carbon dioxide, carbon monoxide

Precautions for fire fighters and special protective equipment
Fully self-contained breathing apparatus, overalls, and safety boots

Hazchem Code:
3[Y]E

6. 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.
7. 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 combustible. This product will fuel a fire in progress.

Incompatible materials
Painted surfaces, natural rubber, polystyrene, EDPM, neoprene

8. EXPOSURE CONTROLS: PERSONAL PROTECTION

National Exposure Standards
The time weighted average concentration (TWA) for this product is: 1185 mg/m3 (500 ppm). Vapour Threshold: 100 -140 ppm, which means the highest allowable exposure concentration in an eight-hour day for a five-day working week. The short-term exposure limit (STEL) is: 2375 mg/m3 (1000 ppm), which is the maximum allowable exposure concentration at any time.

Biological limit values
None established

Engineering Controls: Ventilation
The use of local exhaust ventilation is recommended to control process emissions near the source. Laboratory samples should be handled in a fume hood. 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. It is recommended that chemical resistant gloves be worn when handling this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Unit of measurement</th>
<th>Typical value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>-</td>
<td>Clear, colourless liquid</td>
</tr>
<tr>
<td>Boiling Point/ Range</td>
<td>°C</td>
<td>56</td>
</tr>
<tr>
<td>Flash Point</td>
<td>°C</td>
<td>-17</td>
</tr>
<tr>
<td>Density @ 15°C</td>
<td>g/ml</td>
<td>0.792</td>
</tr>
<tr>
<td>Vapour Pressure @ 20°C</td>
<td>kPa</td>
<td>180 mmHg</td>
</tr>
<tr>
<td>Explosive Limits (LEL – UEL)</td>
<td>%</td>
<td>2.2 – 13.0</td>
</tr>
<tr>
<td>Vapour Density @ 20°C</td>
<td>kPa</td>
<td>Not available</td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td>°C</td>
<td>465</td>
</tr>
<tr>
<td>Viscosity @ 20°C</td>
<td>cSt</td>
<td>Not available</td>
</tr>
<tr>
<td>Percent Volatiles</td>
<td>%</td>
<td>100%</td>
</tr>
<tr>
<td>Solubility with Water</td>
<td>% w/w</td>
<td>Miscible with Water</td>
</tr>
</tbody>
</table>

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

10. STABILITY AND REACTIVITY

Chemical Stability
Stable under normal conditions of use

Conditions to avoid
Sources of heat and ignition, open flames.

Hazardous decomposition products
Carbon oxides on burning

Hazardous reactions
Strong oxidising agents, strong alkalis and strong mineral acids and bromine.

11. TOXICOLOGICAL INFORMATION

Acute Effects

Ingestion
This material will cause irritation to the throat, trachea and respiratory tract. It may cause nausea. Swallowing large amounts will have a narcotic effect: headaches, dizziness, euphoria, loss of appetite and possibly loss of consciousness. Vomiting may cause the product to be aspirated to the lungs resulting in chemical pneumonitis.

Eye Contact
Liquid may cause moderate to severe eye irritation and corneal damage. Most subjects exposed to vapour concentrations of 500 - 1000 ppm experience irritation to the eyes.
**Skin Contact**

Brief contact may cause mild irritation. Prolonged or repeated exposure may cause defatting resulting in dryness or cracking of the skin (irritant contact dermatitis). Due to its low toxicity and high volatility, this product is unlikely to be absorbed through the skin in harmful amounts unless evaporation is prevented.

**Inhalation**

Vapour concentrations above 500 ppm are irritating to the nose and throat. High vapour concentrations (above 1000 ppm) result in narcotic effects including possible headaches, dizziness, loss of coordination, nausea, loss of appetite and possibly loss of consciousness.

**Chronic Effects**

Repeated or prolonged skin contact with the liquid may cause irritant contact dermatitis. A study of 800 workers occupationally exposed to these vapours (600 - 2150 ppm) over an 18 year period revealed no significant adverse health effects compared with unexposed workers.

**Other Health Effects Information**

Exposure to this product potentiates (greatly enhances) the liver and kidney toxicity of chlorinated hydrocarbon solvents such as trichloroethylene and chloroform. Fasting and diabetes increases the normal levels of acetone in the body. Dieters and diabetics exposed to levels of acetone may feel overexposure effects at lower levels of occupational exposure. Exposure to high concentrations of acetone may aggravated pre-existing skin, respiratory, blood, liver, kidney and reproductive disorders in humans.

**Toxicological Information**

Oral: 5.8 - 8.4 g/kg (rat); dermal: 20 g/kg (rabbit).

Inhalation: LC50: 32000 ppm for 4 hours (rat)

### 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

Aquatic Toxicity

- Fish Toxicity (rainbow trout, goldfish, bluegill): LC50(96hr): 5000 - 13000 mg/L
- Daphnia Magna EC50 (24 hr): > 10000 mg/L
- Daphnia Magna EC50 (48 hr): 13500 mg/L
- Blue-green algae (Toxicity threshold 7-8 days): 530 mg/L
- Green algae (Toxicity threshold 7-8 days): 7500 mg/L

**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**

In soil, this product will evaporate and leach readily in most types of soil. Acetone has a negligible tendency to bioaccumulate.

### 13. 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.

14. TRANSPORT INFORMATION

<table>
<thead>
<tr>
<th>Road and Rail Transport</th>
<th>Marine Transport</th>
<th>Air Transport</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN No.</td>
<td>1090</td>
<td>UN No.</td>
</tr>
<tr>
<td>Proper Shipping Name</td>
<td>Acetone</td>
<td>Proper Shipping Name</td>
</tr>
<tr>
<td>DG Class</td>
<td>3</td>
<td>DG Class</td>
</tr>
<tr>
<td>Sub. Risk</td>
<td>None</td>
<td>Sub. Risk</td>
</tr>
<tr>
<td>Pack Group</td>
<td>II</td>
<td>Pack Group</td>
</tr>
<tr>
<td>Hazchem</td>
<td>2[Y]E</td>
<td></td>
</tr>
</tbody>
</table>

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.

15. REGULATORY INFORMATION

Country/ Region: Australia
Inventory: AICS
Status: Listed
Poisons Schedule: 5

16. OTHER INFORMATION

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

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. For further information, please contact The Nail Shop.