1. Product and Company Identification

1.1 PRODUCT NAME: B & B LACQUER

1.2 USE OF PRODUCT Clear coating for bronze, brass and other non-ferrous metals.

1.3 SUPPLIER:

Equus Industries Ltd
Sheffield Street
Riverlands Industrial Estate
Blenheim, Marlborough, New Zealand
Telephone: +64 3 578 0214
Fax: +64 3 578 0919

1.4 EMERGENCY CONTACT:

National Poison Centre
Telephone: 0800 764 766

Information about Safety Data Sheet: Telephone: +64 3 578 0214 8:00am – 6:00pm Mon - Fri

2. Hazards Identification

2.1 Classification:
Dangerous Goods – classification according to New Zealand Dangerous Goods Code.

2.2 Risk & Safety Phrases:
R11,20,45,65,66
S9,16,23,24,33,45,53,62

The full text of each R & S phrases are listed in Section 16.

3. Composition/Information on Ingredients

3.1 Chemical Characterization (Preparation):
This product is a preparation.

3.2 Hazardous Ingredients:

CAS NO.	COMPONENT	CONCENTRATION %	CLASSIFICATION
108-88-3	Toluene	40-60%	R11/20/45/65/66
1330-20-7	Xylene	20-40%	R10/20/21/38
108-65-6	1-Methoxy-2-propanol acetate	<10%	R10/36

3.3 Only ingredients, additives and impurities which are classified and contribute to the classification of the product are included in this section.

4. First Aid Measures

In case of doubt or persistent symptoms, call a doctor. Never give anything by mouth to an unconscious person.

4.1 After Inhalation:
Move to fresh air. Give oxygen or artificial respiration as needed. Obtain medical attention immediately. Prompt action is essential.

4.2 After Skin Contact:
Remove contaminated clothing. Wash thoroughly with soap and water. Flush with lukewarm water for 15 minutes. Seek medical advice if irritation or discomfort develops.

4.3 After Eye Contact:
Immediately flush eyes with large amounts of clean low pressure water for at least 15 minutes, occasionally lifting the upper and lower lids. If pain persists, obtain medical attention promptly.

4.4 After Ingestion:
If swallowed, do not induce vomiting. Seek medical attention immediately.

4.5 Advice to Doctor:
Symptoms and findings:

4.5.1 Oral:
Gastrointestinal discomfort, nausea, vomiting, lethargy or diarrhea. Treatment should be directed at the control of symptoms and the clinical condition of the patient.

4.5.2 Inhalation:
Prolonged over exposure to either vapour or mist can cause coughing, shortness of breath, dizziness and drunkenness.

5. Fire Fighting Measures

5.1 Suitable Extinguishing Media:
Use dry chemical, carbon dioxide, water spray or foam.

5.2 Protective Equipment:
Use positive pressure self-contained breathing apparatus and wear full body protective clothing.

5.3 Specific Hazards:
Highly flammable liquid. Leaks of spills of liquid can readily form flammable mixtures at temperatures at, or above the flash point. Product can accumulate static discharges which can cause an incendiary electrical discharge.

5.4 Combustion Products:
Carbon monoxide, carbon dioxide, fumes and smoke. May produce acrylic monomers.

5.5 Precaution in Connection with Fire:
Use water spray to cool fire exposed surfaces and to protect personnel. Shut off fuel to fire. If a leak or spill has not ignited use water to disperse the vapours and to protect personnel attempting to stop a leak. Either allow fire to burn under controlled conditions or extinguish. Cover any liquid spills with foam.

6. Accidental Release Measures

6.1 Preliminary Action and Precautions:

6.1.1 Extinguish or remove all sources of ignition.

6.1.2 Wear appropriate protective equipment to protect eyes, skin and to avoid inhalation of gases, vapours or aerosols.

6.1.3 Clear area of all unprotected personnel.

6.1.4 If safe to do so, shut off sources of leak.

6.1.5 Avoid spill/leak from entering sewers, storm water drains and open bodies of water by containing the spill/leak with sand or earth.

6.1.6 Recover free liquid, then apply absorbent material (sand, earth, sawdust etc) to spill area.

6.1.7 Place spent absorbent into suitable sealable container, properly labelled.

6.1.8 Store away from heat source, sparks and naked flames ready for recycle or disposal.

7. Handling and Storage

7.1 Handling:

7.1.1 Ensure adequate ventilation at all times.

7.1.2 Avoid contact with eyes, skin and clothing.

7.1.3 Avoid inhaling vapours or mist.

7.1.4 Wash hands thoroughly after handling. Especially before eating, drinking, smoking or using the toilet.

7.1.5 Handle containers with care. Open slowly in order to control possible pressure release.

7.1.6 Precautions required in the handling of solvents must be taken.

7.1.7 Use special care to avoid static electric discharges.

7.1.8 Handle empty container with care. Flammable/combustible residue remains after emptying.

7.1.9 Use adequate personal protective equipment and observe precautions pertaining to use in confined spaces.

7.1.10 Do not pressurize, cut, heat or weld containers and do not open near an open flame, or sources of heat or ignition.

7.2 Storage:

7.2.1 Store in a cool, well ventilated, fire proof place.

7.2.2 Store away from sources of ignition, (ie sparks, open flames, heat etc.)

7.2.3 Store away from oxidizing agents.

7.2.4 Keep containers tightly closed at all times.

7.2.5 Store away from direct sunlight.

8. Exposure Controls and Personal Protection Equipment

8.1 Exposure Limits:

1-methoxy-2-propanol acetate	Cas – 108-65-6	TLV/TWA (ACGIH): 50ppm (274mg/m^3) STEL (ACGIH): 100ppm (548mg/m^3)
Xylene	Cas – 1330-20-7	TLV/TWA (ACGIH): 50ppm (210mg/m^3) STEL (ACGIH): 100ppm (442mg/m^3)
Toluene	Cas – 108-88-3	TLV/TWA (ACGIH): 50ppm (188mg/m^3)

8.2 Exposure Controls:

8.2.1 Exposure Controls in the Work Place:
Local exhaust and general ventilation must be adequate to meet exposure limit(s). Use explosion proof ventilation equipment.

8.2.2 Personal Protection Equipment:

Respiratory Protection - Wear appropriate, properly fitted NIOSH/MSHA, approved organic vapour or supplied air respirator when airborne contaminant level(s) are expected to exceed exposure limits indicated on the MSDS. Follow manufacturers directions for respirator use.

Hand Protection – Wear chemically resistant gloves such as neoprene. Gloves should be replaced immediately if signs of degradation are observed.

Eye Protection – Wear chemical splash goggles and/or face shield. Must be worn when possibility exists for eye contact due to splashing or spraying liquid, airborne particles or vapour.

Skin/Body Protection – When handling this product, it is recommended to wear chemical resistant clothing.

8.2.3 Additional Remarks:
Selection of appropriate personal protective equipment should be based on an evaluation of the performance characteristics of the protective equipment, relative to the task to be performed, conditions present, duration of use and the hazards and/or potential hazards that may be encountered during use.

9. Physical and Chemical Properties

9.1 General Information:

Physical State/Form	Liquid	
Colour	Clear	
Odour	Hydrocarbon solvent	
Flash Point	32^0C (closed cup)	
Boiling Point/Range	110 – 111^0C	***Toluene***
Vapour Pressure	7 mm Hg (1 atmosphere)	***Toluene***
Vapour Density	Not available	
pH	Not applicable	
Water Solubility/Miscibility	Negligible.	
Specific Gravity	0.90	
VOC	683 g/l	

10. Stability and Reaction

10.1 General Information:
This material is stable when properly handled and stored. No hazardous reactions are known.

10.2 Conditions to Avoid:
Heat, sparks, open flame and other ignition sources and oxidizing conditions.

10.3 Material to Avoid:
Strong oxidizing agents.

10.3 Hazardous Decomposition Products:
None expected when material properly handled and stored. For thermal decomposition see Section 5.

11. Toxicological Information

11.1 General Information:
No toxicity data is available for this product.

11.2 Skin Contact:
May cause slight irritation through skin contact. Possible systemic toxicity by skin absorption.

11.3 Eye Contact:
May cause moderate irritation, including burning sensation, tearing, redness or swelling.

11.4 Ingestion:
Harmful if swallowed. Small amounts of liquid aspirated into the respiratory system during ingestion of from vomiting may cause bronchopneumonia or pulmonary oedema.

11.5 Inhalation:
Harmful by inhalation. Vapour concentrations above recommended exposure level may be irritating to the eyes and respiratory tract, may cause headaches and dizziness, could be anesthetic and may have other central nervous system effects.

11.6 Chronic Effects:
Harmful by inhalation and in contact with skin. Aromatic hydrocarbons, such as xylene and toluene, irritate the skin and mucous membranes and are narcotic if inhaled in high concentrations. The product may cause central nervous system depression resulting in disturbances of equilibrium and lowering of the reaction velocity. Risk of cutaneous absorption. Alcohol will intensify the harmful action.

12. Ecological Information

12.1 Environment Protection:
Prevent product from entering drains, sewers and waterways.

12.2 Ecotoxicity:
Xylene:
LC50 (Fish, 96 h): 3,77 – 13,5 mg/l
EC50 (Daphnia magna, 48 h): 7,4 mg/l

1-Methoxy-2-propanol acetate:
LC50 (Fish, 96 h): 161 mg/l
EC50 (Daphnia magna, 48 h): >500 mg/l

12.3 Persistence and degradability:
Data not available.

12.4 Bioaccumulative Potential:
Data not available.

13. Disposal Consideration

13.1 Material
Dispose of according to regulations by incineration in a special waste incinerator or landfill at a permitted facility in accordance with local/national regulations.

14. Transport Information

14.1 Land Transport:

Road: Flammable liquid. (Class: 3 , GP III, HAZ CHEM 3Y)

Rail: Flammable liquid. (Class: 3 , GP III, HAZ CHEM 3Y)

14.2 Sea Transport: Flammable liquid. (Class:3.3 , GP III, HAZ CHEM 3Y)

14.3 Air Transport: Flammable liquid. (Class: 3 , GP III, HAZ CHEM 3Y)

14.4 Postal and Courier Service: This product cannot be transported by courier.

15. Regulatory Information

This product is hazardous and Flammable.

16. Other Information

16.1 Full Text of R-Phrases Contained in Section 2:

R11	Highly flammable
R20	Harmful by inhalation
R65	Harmful: may cause lung damage if swallowed
R66	Repeated exposure may cause skin dryness or cracking

16.2 Full Text of S-Phrases Contained in Section 2:

S9	Keep container in a well ventilated place.
S16	Keep away from sources of ignition
S23	Do not breathe vapour
S24	Avoid contact with skin
S33	Take precautionary measures against static discharges
S45	In case of accident or if you feel unwell, seek medical advice immediately
S53	Avoid exposure – obtain special instructions before use.
S62	If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label.

16.3 The information contained in this Data Sheet relates only to the specific material identified. Equus Industries Ltd believes the information to be accurate and reliable as at the date of this Data Sheet. No Warranty, Guarantee or representation is expressed or implied by the Company as to the absolute correctness or completeness of any representation contained in this Data and assumes no legal responsibility in connection therewith. It can not be assumed that all acceptable safety measures are contained in this Data Sheet, or that additional measures may not be required under particular or exceptional circumstances or conditions.