SAFETY DATA SHEET

Section 1. Identification of the Preparation and Company	
Product name	B-I-N® Primer Sealer
Intended use	A pigmented shellac based primer and sealer. This material can be applied using a brush, roller, or sprayer.
Responsible person in EU	Zinsser UK Ltd Wetherby House 7 Market Place Wetherby West Yorkshire LS22 6LG England
Telephone number	01937 584411
Emergency telephone	As above
E-mail address	sales@zinsseruk.com

Section 2. Composition / Information on Ingredients

2.1 Substances present in concentrations requiring classification under CHIP 3 Regulations or for which there are Community workplace exposure limits.

Substance name	Conc. Range (wt. %)	EC No. (CAS No.)	Classification
Ethanol	30 - 50	200-578-6 (64-17-5)	F R11

2.2 Substances present in concentrations that do not require classification but are indicated in the Approved Supply List.

Substance name	Conc. range (wt. %)	EC No. (CAS No.)
Propan-2-ol	3 - 8	200-661-7 (67-63-0)

Section 3. Hazards identification

Classification	**F** Highly Flammable

Section 4. First aid measures	
General	In all cases of doubt, or when symptoms persist, seek medical attention. Show label where possible. Never give anything by mouth to an unconscious person.
Inhalation	Remove to fresh air. Restore and support continued breathing. Get emergency medical attention. Have trained person give oxygen if necessary. Get medical help for any breathing difficulty. Remove to fresh air if inhalation causes eye watering, headaches, dizziness, or other discomfort.
Skin contact	Flush from skin with water. Then wash thoroughly with soap and water. Remove contaminated clothing. Wash contaminated clothing before re-use. If irritation occurs, consult a physician.
Eye contact	Flush immediately with large amounts of water, especially under lids for at least 15 minutes. If irritation or other effects persist, obtain medical treatment.
Ingestion	If swallowed, obtain medical treatment immediately.

Section 5. Fire-fighting measures	
Extinguishing media	Dry chemical, alcohol resistant foam, water fog or carbon dioxide.
Prohibited extinguishing media	None known.
Special exposure hazards	Closed containers may explode when exposed to extreme heat or fire. Vapours may ignite explosively at ambient temperatures. Vapours can form explosive mixtures in air at elevated temperatures. Closed containers may burst if exposed to extreme heat or fire.
Special protective equipment for fire fighters	As the product contains combustible organic components fire can produce black smoke containing hazardous products of combustion. Decomposition products may be a hazard to health. Appropriate self-contained breathing apparatus may be required.

Section 6. Accidental release measures	
Personal precautions	Exclude non-essential personnel. Avoid breathing vapour. Floors may become slippery. Refer to protective measures listed in Sections 7 and 8.
Environmental precautions	The material is not classified as toxic to the environment. However, care should be taken not to allow entry into drains or watercourses.
Cleaning up measures	Exclude non-essential personnel. Avoid breathing vapour. Floors may become slippery. Refer to protective measures listed in Sections 7 and 8. Contain and collect spillages with non-combustible absorbent materials, e.g., sand, earth, vermiculite, diatomaceous earth and place in a clearly labelled suitable container for disposal in accordance with local waste control laws (see Section 13). Do not allow to enter drains or watercourses. Clean preferably with a detergent; avoid the use of solvents.

Section 7. Handling and storage	
Handling	**Handling** Apply product only in accordance with methods stated in Section 1. Avoid eye contact. Avoid inhalation of spray mist. Smoking, eating and drinking should be prohibited in areas of storage and use. For personal protection, see Section 8. Good housekeeping standards and regular safe removal of waste materials are recommended.
Storage	Although the storage of this material is not regulated under specific statutory requirements, the principles contained in HSE guidance documents HS(G)51 Storage of Flammable Liquids in Containers and Storage of Packaged Dangerous Substances should be observed. Store upright in a dry, well-ventilated area between 5° C and 30°C. Keep away from sources of ignition and direct sunlight. Containers, which are opened, should be properly resealed.
Specific uses	Apply this product in accordance with the methods stated in Section 1.

Section 8. Exposure controls / personal protection	
Exposure limit values	
Ethanol	TLV: 1000 ppm (as TWA). MAK 960 mg/m^3
Propan-2-ol	TLV: 400 ppm (as TWA). STEL 500ppm
Exposure controls	Ensure good ventilation during application and drying. Solvent vapours are heavier than air and may spread along floors. They may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapour in air and avoid concentrations that exceed occupational exposure limits.
Occupational exposure controls	The Control of Substances Hazardous to Health Regulations 1994 (COSHH) may apply to the use of this product work. Engineering control of operator exposure must be used where reasonably practicable in addition to personal protective equipment (PPE). However, engineering controls may replace PPE if a COSHH assessment that they provide an equal or higher standard of protection.
(a) Respiratory protection	Should not be necessary under normal conditions of use. Suitable respiratory protective equipment should be worn during spray application to prevent inhalation of spray mists. Special precautions should be taken during surface preparation of pre-1960 paint surfaces as they may contain harmful lead. Avoid the inhalation of dust. Wear a suitable face mask if dry sanding.
(b) Hand protection	Where skin exposure may occur, advice should be sought from glove suppliers on appropriate types. Barrier creams may help to protect exposed areas of the skin but are not substitutes for full physical protection. They should not be applied once exposure has occurred.
(c) Eye protection	Eye protection designed to protect against liquid splashes should be worn.
(d) Skin protection	Cotton or cotton/synthetic overalls or coveralls are normally suitable. Grossly contaminated clothing should be removed and the skin washed with soap and water or a proprietary skin cleaner.
Environmental exposure controls	The material is not classified as toxic to the environment. However, care should be taken not to allow entry into drains or watercourses.

Section 9. Physical and chemical properties			
General information			
Appearance	White liquid	**Odour**	Alcohol type
Important health, safety and environmental information			
pH	Not determined.	**Boiling point**	78° C *
Flammability	Highly Flammable	**Flash point**	17^0C
Lower Explosive Limit	3.3% *	**Upper Explosive Limit**	19.0% *
Viscosity	500 cps	**Specific Gravity (water = 1)**	1.17
Water solubility	The alcohol portion is soluble in water, the shellac portion is not soluble and will from a gelatinous layer on top of water.	**Evaporation rate** **(n-Butyl Acetate = 1)**	3.3 *
Vapour pressure	43.3 mm Hg *	**Vapour density**	1.59 *
Other information		* Value based on ethyl alcohol.	

Section 10. Stability and reactivity	
Conditions to avoid	No open flames, No sparks, and No smoking. No contact with strong oxidants.
Materials to avoid	Reacts slowly with calcium hypochlorite, silver oxide and ammonia, possibly causing fire and explosion hazard.
Hazardous decomposition products	Not evaluated

Section 11. Toxicological information	
Acute toxicity	The preparation has been assessed and found to produce no effect.
Corrosivity / irritation	The preparation has been assessed and found to produce no effect.
Sensitisation	The preparation has been assessed and found to produce no effect.
Repeated dose toxicity	The preparation has been assessed and found to produce no effect.
Mutagenicity	The preparation has been assessed and found to produce no effect.
Carcinogenicity	The preparation has been assessed and found to produce no effect.
Reproductive toxicity	The preparation has been assessed and found to produce no effect.

Section 12. Ecological information

There is no data available on the product itself. The product should not be allowed to enter drains, watercourses, access routes to septic tanks or be deposited where it can affect ground or surface waters.

Section 13. Disposal considerations

Do not allow into drains, watercourses, access routes to septic tanks or dispose of where ground or surface waters may be affected.

Section 14. Transport information

UN number	UN1263
Class	3
Shipping name	Paint
Packing group	III
Marine pollutant	N/A
Other Information	N/A

Section 15. Regulatory information

The preparation was evaluated according to the requirements of The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002, EH40/2002 Occupational Exposure Limits and was classified as follows:

F Highly Flammable
R11 Highly Flammable
S16 Keep away from sources of ignition - No smoking
S7/9 Keep container tightly closed and in well ventilated place.
S2 Keep out of the reach of children
S24/25 Avoid contact with skin and eyes
S46 If swallowed, seek medical advice immediately and show this container or label
S51 Use only in well-ventilated areas

Section 16. Other information

R – phrases listed in Section2:	R11: Highly Flammable
Training advice	The information contained in this safety data sheet is provided in accordance with the requirements of the CHIP Regulations. The product should not be used for purposes other than those indicated in Section 1 without first contacting the supplier and obtaining written handling instructions.
Recommended use restrictions	Keep out of reach of children. Apply this product in accordance with the methods stated in Section 1. Contact Zinsser UK Ltd. for specific enquiries regarding the safe use and handling of this product.

Further information	Key STEL: Short term exposure limit. cps: centipoise TLV: Threshold limit value ACGIH: American Conference of Governmental Industrial Hygienists mg/m^3 or mgm^{-3}: Milligram's per cubic metre N/A: Not Applicable ppm: Parts per million. PEL: Permissible exposure limits TWA: Time weighted average. OEL: EH40/Occupational Exposure limits 2002 MAK**:** Maximale Arbeitsplatzkonzentrationen - Germany