TECHNICAL DATA SHEET

PRODUCT: POLYVINE EXTRA PALE VARNISH

PRODUCT DESCRIPTION
Extremely durable, high quality coating available in a satin or dead flat finish that dries to a stain resistant film. Preserves the natural appearance of the wood. Dramatically reduces the yellowing characteristics normally associated with polyurethane varnishes. Ideal to use on hardwood and softwood doors, kitchen worktops and cabinets, bar tops, tabletops, counters, bookshelves, wood panelling, and protection of oil-based glazing or broken colour work.

Brush Application
Always use a good quality, soft bristle brush. Extra pale Varnish should be flowed on with the minimum brushing required to avoid runs. It has excellent flow, good wet edge time and is easily applied by brush under normal conditions.

Roller Application
Rollers can be used on large areas. For best results a good quality varnish roller is recommended, finish off by a light brushing out.

Spray Application
Spray gun manufacturer's advice should be followed and dilution up to a maximum of 10% white spirit will achieve the required viscosity in most cases.

New Interior Woodwork
Ensure the surface is clean and dry and abraded to a smooth surface. Joints, splits and other imperfections make good with suitable wood filler. Allow to harden and abrade to a smooth surface. Remove all particles of dust by vacuuming and/or wiping with a cloth dampened with white spirit.
Oily woods such as teak should be thoroughly washed with white spirit.
Stir the varnish thoroughly before and during use.

Sealing
The first coat is usually applied by brush but on hardwood a cloth pad technique may be adopted. The use of a cloth pad may be advantageous in obtaining a higher degree of penetration and thus assisting adhesion.
Thinning with up to 10% white spirit will improve penetration on hard woods.

Finishing
Stir the varnish thoroughly. Sedimentation will occur during storage. The product will always reconstitute with stirring.
The application of a further 2 coats is recommended after the sealing coat has been allowed to dry, It should be noted that low temperatures and poor ventilation will increase the recoating time.
If an extra fine finish is essential, lightly rub down between coats with fine abrasive paper. Remove dust.

Treating Previously Varnished Surfaces
If the varnish is in sound condition, clean down to remove dirt, grease, oil and wax polish. Remove any poorly adhering or defective varnish by scraping back to a firm edge. Make good any cracks or imperfections with a suitable wood filler.
If the existing varnish is in poor condition, remove it completely and treat as described under `New Interior Woodwork'.

COVERAGE
Approx. 15 sq. m per litre.

CLEAN UP
Any equipment used can be cleaned using white spirit before the clear coat dries. Wipe any excess off surfaces with a damp cloth. Any dried deposits will need a paint stripper to remove them.

Recommendation.
Always test adhesion and the application of the effect on a trial area before starting.
Avoid applying in cold damp conditions as this will delay drying, as will poor ventilation.

HEALTH, SAFETY AND THE ENVIRONMENT
Flammable, keep away from sources of ignition - No Smoking. Keep out of reach of children. Use only in well ventilated areas. Ensure maximum ventilation during application and drying. Restrict interior use to large interior spaces or in confined spaces, wear a face mask which is designed to prevent inhalation of solvent vapours. Avoid contact with skin and eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. After contact with skin, wash immediately with plenty of soap and water or a proprietary skin cleanser - DO NOT USE SOLVENT, THINNERS OR WHITE SPIRIT. Remove excess from tools and mixing vessels before cleaning with white spirits. Toxic to aquatic organisms and may cause long-term adverse effects in the aquatic environment. Do not empty into drains or watercourses. Some local authorities have special facilities for disposing of waste coatings. To avoid risk of spilling, always transport and store in a secure upright position.

FILM PROPERTIES
DRY FILM: Eggshell & Dead Flat.
DRYING TIME: Up to 2 Hours @ 20°C / 70°F
Low temperature/high humidity increases drying time. Air movement is essential for faster drying.
HARD TIME: 6 hours @ 20°C / 70°F
RECOAT TIME: 6-8 hours @ 20°C / 70°F
HARDNESS: Durable
RESISTANT TO: Water and abrasion.

PACKAGING
500ml, 1L, 2.5L. US pint, US ½ gal, US gal. Tins

STORAGE
Store in unopened containers in a cool dry place away from direct sunlight.

The information supplied herein is accurate to the best if our knowledge. Since conditions and methods are beyond our control, no warranty is expressed or implied. You are advised to access the suitability of the product on a test area before application

Further information may be obtained from:

POLYVINE LIMITED
Severn Distribution Park
Sharpness, Berkeley,
Gloucestershire.
GL13 9UQ
United Kingdom

Telephone No. 0845 017 1671
International +44 845 017 1671
Fax: 0845 017 1672
Email info@polyvine.co.uk

Date of issue: October 2009

POLYVINE.

SAFETY DATA SHEET

1 IDENTIFICATION OF THE PREPARATION AND COMPANY

PRODUCT NAME AND/OR CODE: **Extra Pale Varnish**

INTENDED USE: **Timber Protection**

NAME & FULL ADDRESS:
Polyvine Ltd
Severn Distribution Park
Sharpness
Gloucestershire
GL13 9UQ

TELEPHONE NO: **0845 017 1671**
EMERGENCY NO: **0208 762 8322**

2 HAZARDS IDENTIFICATION

The product is classified as flammable and dangerous for the environment according to the CHIP Regulations.
Flammable.
Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.
Repeated exposure may cause skin dryness and cracking.
Vapours may cause drowsiness and dizziness.

3 COMPOSITION/INFORMATION OF INGREDIENTS

Substances presenting a health or environmental hazard within the meaning of the CHIP Regulations or which are assigned workplace exposure limits.

Substance	Conc Range %	Symbol Letter	R Phrases (5)	Workplace Exposure Limits (**WEL**'s)				Notations (3)
				8 hr TWA (1)		15 min STEL (2)		
				ppm(4)	mg/m 3(4)	ppm (4)	mg/m 3(4)	
Naphtha (petroleum) hydrosulfurizesd heavy (CAS: 64742-82-1)	20-25	Xn, N	51/53, 65, 66, 67	400(7)	-	-	-	
Naphtha (petroleum) hydrosulfurized heavy (CAS: 64742-48-9)	2.5-10	Xn	10, 65,66	400(7)	-	-	-	
Xylene (CAS: 1330-20-7)	2.5-10	Xn	10, 20/21, 38	50	220	100	441	Sk,BMGV
Tolylfluanid (CAS: 731-27-1)	0.25-1.0	Xn, Xi, N	48/20, 36/37/38, 43, 50, 53	(6)	(6)	(6)	(6)	
2-Ethylhexanoic			22, 38, 43,					

acid, cobalt salt (CAS 13586-82-8)	0.1-1.0	Xn, Xi, N	51/53	(6)	(6)	(6)	(6)	
2-butanone oxime (CAS:96-29-7)	0.1-1.0	Xn,Xi Carc Cat 3	21,40, 41, 43	(6)	(6)	(6)	(6)	

Notes:
(1) Long term exposure limit – 8 hour time weighted average.
(2) Short term exposure limit – 15 minute reference period.
(3) 'Sk' indicates a risk of absorption through the skin. 'Sen' indicates a respiratory sensitiser.
(4) 'WEL's' are taken from EH40, except those marked 'SUP', which are assigned by the supplier of the substance. 'Bmgv' indicates that biological monitoring may be appropriate. Biological Monitoring Guidance Values are listed in EH40.
(5) For full text see Section 15.
(6) Values have not been assigned by the supplier.
(7) ESIG TWA

4 FIRST AID MEASURES

General:
In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

Inhalation:
Remove to fresh air, keep the patient warm and at rest. If breathing has stopped, administer artificial respiration. Give nothing by mouth. If unconscious, place in the recover position and seek medical advice.

Eye Contact:
Contact lenses should be removed. Irrigate copiously with clean, fresh water for at least 10 minutes, holding eyelids apart and seek medical advice.

Skin Contact:
Remove contaminated clothing. Wash skin thoroughly with soap and water or use a proprietary skin cleaner.
DO NOT USE SOLVENTS OR THINNERS.

Ingestion:
If accidentally swallowed obtain immediate medical attention. Keep at rest. Do **NOT** induce vomiting.

5 FIRE FIGHTING MEASURES

Extinguishing Media:
RECOMMENDED: Alcohol resistant foam, CO_2 powder, water spray/mist
NOT TO BE USED: Water jet

Recommendations:
Fire will produce dense black smoke containing hazardous products of combustion (see Section 10). Exposure to decomposition products may be a hazard to health. Appropriate self-contained breathing apparatus may be required. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or watercourses.

6 ACCIDENTAL RELEASE MEASURES

Exclude sources of ignition and ventilate the area. Exclude non-essential personnel. Avoid breathing vapours. 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 suitable container for disposal in accordance with the waste regulations (see Section 13). Do not allow to enter drains or watercourses. Clean preferably with a detergent and avoid the use of solvents.

If the product enters drains or sewers the local Water Company should be contacted immediately; in case of contamination of streams, rivers or lakes, the relevant environment agency.

7 HANDLING AND STORAGE

Handling:
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 vapour concentrations higher than the workplace exposure limits.

Additionally, the product should only be used in areas which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard. Keep the container tightly closed. Exclude sources of heat, sparks and open flame. Non-sparking tools should be used.
Avoid skin and eye contact. Avoid inhalation of vapour and spray mist.
Smoking, eating and drinking should be prohibited in areas of storage and use.
For Occupational Exposure Controls, see Section 8.

Never use pressure to empty, the container is not a pressure vessel.
Always keep in containers made of the same material as the supply container.
Good housekeeping standards including the regular safe removal of waste materials and regular maintenance of spray booth filters will minimise risks of spontaneous combustion and other fire hazards.

The Manual Handling Operations Regulations may apply to the handling of containers of the product. Refer to the guide weight indicated on the container when carrying out assessments.

Storage:
The storage and use of this product is subject to the requirements of the Dangerous Substances and Explosive Atmosphere Regulations 2002 (DSEAR). The requirements are given in the HSE Approved Code of Practice and Guidance,Storage of Dangerous Substances. Up to 250 litres of such highly flammable liquids may be kept in a workroom provided they are kept in a fireproof cupboard or bin. Larger quantities must be kept in a separate storeroom conforming to the structural requirements of the regulations. Further guidance is contained in the HSE guidance note Storage of Flammable Liquids in Containers.

Observe the label precautions. Store between 5 and 25ºC in a dry, well-ventilated place away from sources of heat, ignition and direct sunlight. No smoking. Prevent unauthorised access. Containers that are opened should be properly resealed and kept upright to prevent leakage. The principles contained in the HSE guidance note Chemical Warehousing: The Storage of packaged Dangerous Substances should be observed when storing this product. Store separately from oxidising agents and strongly alkaline and strongly acidic materials.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits:
(see Section 3).

Exposure Controls:
Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and/or solvent vapours below the relevant workplace exposure limits, suitable respiratory protective equipment should be worn (see Personal Protection below).

Personal Protection:
All personal protective equipment, including respiratory protective equipment, used to control exposure to hazardous substances must be selected to meet the requirements of the COSHH Regulations.

Respiratory Protection:
Air-fed respiratory protective equipment should be worn when this product is sprayed if the exposure of the sprayer or other people nearby cannot be controlled to below the occupational exposure limit and engineering controls and methods cannot reasonably be improved.

Hand Protection:
When skin exposure may occur, advice should be sought from glove suppliers on appropriate types and usage times for this product. The instructions and information provided by the glove supplier on use, storage, maintenance and replacement must be followed. 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.

Eye Protection:
Eye protection designed to protect against liquid splashes should be worn.

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.
Regular skin inspection of users of this product is recommended.
ALWAYS WASH YOUR HANDS BEFORE EATING, SMOKING OR USING THE TOILET.

Environmental exposure control:
See Section 12 for detailed information.

9 PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid		
Flash Point:	40ºC	Method:	Closed cup
Viscosity:	75 Sec	Method:	Din 4 at 20ºC
Specific Gravity:	1.04	Method:	weight of 100 ml at 20ºC
Vapour Density (air=1):	Not determined		
Lower Explosion Limit:	0.73 % VOL		
Solubility in Water:	insoluble		
VOC (g/L):	389		

10 STABILITY AND REACTIVITY

Stable under the recommended storage and handling conditions (see Section 7). In a fire, hazardous decomposition products such as smoke, carbon monoxide and carbon dioxide and oxides of nitrogen may be produced.
Keep away from oxidising agents and strongly alkaline and strongly acidic materials to prevent the possibility of exothermic reaction.
Keep dirty wipers in an enclosed container.

11 TOXICOLOGICAL INFORMATION

There is no data available on the product itself. The product has been assessed following the conventional method of CHIP and is classified for toxicological hazards accordingly. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact. See Sections 2 and 15 for details of the resulting hazard classification.
Exposure to organic solvent vapours in excess of the stated occupational exposure limit may result in adverse health effects, such as irritation of the mucous membrane and the respiratory system and adverse effects on the kidney, liver and central nervous systems. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Repeated and prolonged exposure to solvents at levels significantly above WELs may lead to the development of long-lasting central nervous system disorders such as chronic toxic encephalopathy. Signs of toxicity include changes in behaviour and memory.
Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the product may cause removal of natural fats from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.
Splashes in the eyes may cause irritation and reversible local damage. Ingestion may result in the following effects: sore throat, abdominal pain, drowsiness, nausea, vomiting and diarrhoea.

12 ECOLOGICAL INFORMATION

There is no data available on the product itself.
The product has been assessed following the conventional method of CHIP and is classified for ecological hazards accordingly (see section 2 and 15 for details).
The product should not be allowed to enter drains or watercourses or be deposited where it can affect ground or surface waters.
Air Pollution Control requirements of regulations made under the Environmental Protection Act and Pollution Prevention and Control Act may apply to the use of this product.
LAPPC/LA-IPPC requirements of regulations made under the Pollution Prevention and Control Act may apply to the use of this product.

13 DISPOSAL CONSIDERATIONS

Do not allow into drains or watercourses or dispose of where ground or surface waters may be affected. Wastes, including emptied containers, are controlled wastes and should be disposed of in accordance with regulations made under the Control of Pollution Act and the Environmental Protection Act.
The classification of this product when mixed with other related materials supplied and disposed of as waste is: 0800111 (paint/thinners). For Further Information contact your local waste authority.
Using the information provided in this safety data sheet, advice should be obtained from the relevant environment agency, whether the special waste regulations apply.

14 TRANSPORT INFORMATION

Transport within the user's premises:
Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of accident or spillage.

Road Transport Details:
UN 1263: Paint related product
CLASS 3 - PACKING GROUP III
Ensure drivers have adequate training.

15 REGULATORY INFORMATION

The product is classified and labelled for supply in accordance with the CHIP Regulations as follows:

Contains: Tolylfluanid, 2-Ethylhexanoic acid, cobalt salt, 2-butanone oxime which may produce an allergic reaction

R Phrase No	**Text**
R10	FLAMMABLE
R51/53	TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG TERM EFFECTS IN THE AQUATIC ENVIRONMENT
R66	REPEATED EXPOSURE MAY CAUSE SKIN DRYNESS OR CRACKING
R67	VAPOURS MAY CAUSE DROWSINESS AND DIZZINESS

S Phrase No	**Text**
S2	KEEP OUT OF REACH OF CHILDREN
S29	DO NOT EMPTY INTO DRAINS
S46	IF SWALLOWED SEEK MEDICAL ADVICE IMMEDIATELY AND SHOW THIS CONTAINER OR LABEL.
S51	USE ONLY IN WELL VENTILATED AREAS

The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks as required by other health and safety legislation. The provisions of the Health and Safety at Work etc Act and the Control of Substances Hazardous to Health Regulations apply to the use of this product at work.

16 OTHER INFORMATION

Text of other R phrases listed in Section 2.

R Phrase No	Text
R20/21	HARMFUL BY INHALATION AND IN CONTACT WITH SKIN
R21	HARMFUL IN CONTACT WITH SKIN
R22	HARMFUL IF SWALLOWED
R36/37/38	IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN
R38	IRRITATING TO SKIN
R40	LIMITED EVIDENCE OF A CARCINOGENIC EFFECT
R41	RISK OF SERIOUS DAMAGE TO EYES
R43	MAY CAUSE SENSITISATION BY SKIN CONTACT
R48/20	HARMFUL: DANGER OF SERIOUS DAMAGE TO HEALTH BY PROLONGED EXPOSURE THROUGH INHALATION AND IN CONTACT WITH SKIN
R50	VERY TOXIC TO AQUATIC ORGANISMS
R53	MAY CAUSE LONG TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT
R65	HARMFUL, MAY CAUSE LUNG DAMAGE IF SWALLOWED

The information contained in this safety data sheet is provided in accordance with the requirements of CHIP Regulations.

The product should not be used for purposes other than those shown in Section 1 without first referring to the supplier and obtaining written handling instructions. As the specific conditions of use of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of relevant legislation are complied with.

The information contained in this safety data sheet is based on the present state of knowledge and current national legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications.

Further information and relevant advice can be found in the following:

The Control of Substances Hazardous to Health Regulations 2002 (SI 2002: 2677)
COSHH Essentials: easy steps to control chemicals, HSG193. Details of Control Guidance Sheets, which may be relevant to the particular conditions of use, can also be found in this publication.
Chemical Warehousing: The storage of packaged dangerous Substances HSG71
Storage of Flammable Liquids in Containers HSG51
The Manual Handling Operations Regulations 1992 (SI 1992: 2793)
The Dangerous Substances and Explosive Atmosphere Regulations DSEAR 2002: Approved Code of Practice and Guidance, L138
Storage of Dangerous Substances DSEAR 2002: Approved Code of Practice and Guidance, L135
Control and Mitigation Measures, DSEAR 2002: Approved Code of Practice and Guidance, L136
Safe Maintenance, Repair and Cleaning Procedures, DSEAR 2002: Approved Code of Practice and Guidance, L137
Design of Plant, Equipment and Workplaces, DSEAR 2002: Approved Code of Practice and Guidance L134
The Environmental Protection (Duty of Care) Regulations 1992 (SI 1992: 2839)
EH40/## Occupational Exposure Limits, HSE Books
A Guide to Working with Solvents, INDG 272
HSE website www.hse.gov.uk