

PermaSeal Standard

Solvent based acrylic cure & seal

HEALTH & SAFETY
DATASHEET ISSUE 1.1
07 MAY 2008

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION & THE COMPANY

PRODUCT NAME: PermaSeal Standard

USE: Solvent based membrane forming liquid, curing, sealing, dust-proofing & concrete hardening agent.

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2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients	EEC No	CAS No	Content	Symbols	R Phrases
1,2,4-Trimethylbenzene	601-043-00-3	000095-63-6	15-25%	Xn, N	10-20-36/37/38-51/53
Ethylbenzene	601-023-00-4	000100-41-4	1-5%	F; Xn	11-20
Isopropylbenzene	601-024-00-X	000098-82-8	1-5%	Xi	10-37
Solvent Naphtha (petroleum), light aromatic	649-356-00-4	064742-95-6	15-25%	Xn, N	10-37-51/53-65
Xylene, Mixture of Isomers	601-022-00-9	000095-47-6	25-50%	Xn	10-20/21-38

3. HAZARDS IDENTIFICATION

XN Harmful
N Dangerous to the environment
R10 Flammable
R20/21 Harmful by inhalation, in contact with skin
R51/53 Toxic to aquatic organisms, may cause long term adverse effects in an aquatic environment
R65 Harmful: May cause lung damage if swallowed

4. FIRST AID MEASURES

GENERAL: In case of doubt or when symptom 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 recovery position and seek medical advice.

INGESTION: If accidentally swallowed, seek immediate medical attention. Keep at rest. Do NOT induce vomiting.

SKIN CONTACT: Remove contaminated clothing. Wash skin thoroughly with soap and water or use a proprietary skin cleaner. Do NOT use solvents or thinners.

EYE CONTACT: Contact lenses should be removed. Irrigate copiously with clean, fresh water for at least ten minutes while holding the eyelids apart. Seek medical advice.

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5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA:

Recommended: Alcohol resistant foam, Carbon-Dioxide, powder, water spray/mist.
Do NOT use: Water Jet.

RECOMMENDATIONS:

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

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 water courses.

Clean preferably with detergent; avoid the use of solvents.

If the product enters drains or sewers, immediately contact the local water company.

7. HANDLING & 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 occupational Exposure Limit Values. In addition the product should only be used in areas from 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 mist.

Smoking, eating and drinking should be prohibited in storage and use areas.

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.

The accumulation of contaminated rags and dry overspray, particularly in spray booth filters may result in spontaneous combustion.

Good housekeeping standards, regular safe removal of waste materials and regular maintenance of spray booth filters will minimise the risks of spontaneous combustion and other fire hazards.

The product may charge electrostatically. Always use earthing leads when transferring from one container to another. Operators should wear anti-static footwear and clothing; floors should be electrically conductive.

The Manual Handling Operations Regulations may apply to the handling of containers of this product.

STORAGE:

Store in accordance with the conditions of the licence which is necessary under the Petroleum (Consolidation) Act. Further guidance is contained in the HSE guidance note "Storage of Flammable Liquids in Containers". Observe the labels precautions. Store between 5 and 25 degrees centigrade in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. No Smoking. Prevent unauthorised access. Containers that have been opened should be resealed and kept upright to prevent leakage.

The principles contained in the HSE guidance note "Storage of Packed Dangerous Substances" should be observed when storing this product.

Store separately from oxidising agents and strong alkaline and strongly acidic material.

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8. EXPOSURE CONTROLS & PERSONAL PROTECTION

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 vapours below the relevant Occupational Exposure Limit Values, suitable respiratory protective equipment should be worn (see 'Occupational Exposure Controls' below).

Hazardous Ingredients	Occupational Exposure Limits				Notations ⁽³⁾
	8hr TWA ⁽¹⁾		15min STEL ⁽²⁾		
	ppm ⁽⁴⁾	mg/m ³ ⁽⁴⁾	ppm ⁽⁴⁾	mg/m ³ ⁽⁴⁾	
1,2,4-TRIMETHYLBENZENE	25	123			
ETHYLBENZENE	100	435	125	545	
ISOPROPYLBENZENE	25	120	75	370	sk
XYLENE, MIXTURE OF ISOMERS	100	435	150	650	sk

NOTES:

(1) Long Term Exposure Limit - 8hr Time Weighted Average. (2) Short Term Exposure Limit - 15min reference period. (3) 'sk' indicates a risk of absorption through the skin; 'sen' indicates a respiratory sensitiser. (4) 'OES' indicates an Occupational Exposure Standard; 'MEL' indicates a Maximum Exposure Limit. OEL's are taken from the current version of "EH40 Occupational Exposure Limits".

OCCUPATIONAL EXPOSURE CONTROLS:

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. Other people nearby should be similarly protected if exposure 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 a substitute 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.

9. PHYSICAL & CHEMICAL PROPERTIES

APPEARANCE:	White liquid	VOC CONTENT:	762 gms/l
VAPOUR DENSITY:	Heavier than air	SPECIFIC GRAVITY:	0.895 g/cm ³
SOLUBILITY:	Partially Miscible	FLASH POINT:	24°C

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10. STABILITY & REACTIVITY

Stable under the recommended storage and handling conditions (see section 7).

In a fire, hazardous decomposition products such as smoke, carbon monoxide, 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.

11. TOXICOLOGICAL INFORMATION

There is no data available on the product itself. The product has been assessed following the conventional method in 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 3 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 kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the product may cause some removal of natural fats from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

12. ECOLOGICAL INFORMATION

The product should not be allowed to enter drains or water courses or be deposited where it can affect ground or surface waters. If the product enters drains or sewers, the Environment Agency should be informed immediately. There is no data available on the product itself.

The product has been assessed following the conventional method in CHIP and is classified for ecological hazards accordingly. See sections 3 and 15 for details.

See also sections 5, 6 and 13.

The Air Pollution Control requirements of regulations made under the Environmental Protection Act, may apply to the use of this product.

13. DISPOSAL CONSIDERATIONS

Do not allow into drains or water courses 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 the regulations made under the Control of Pollution Act and the Environmental Protection Act. (Using information provided in this data sheet, advice should be obtained from the Waste Regulation Authority whether the special regulations apply). It is recommended that any surplus of the product should be disposed of by incineration.

DISPOSE OF IN ACCORDANCE WITH LOCAL AND NATIONAL REGULATIONS

Further information on disposal methods and contractors is available from the National Association of Waste Disposal Contractors tel: 0207 824 8882/fax: 0207 824 8753.

14. TRANSPORT INFORMATION

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

Transport in accordance with the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport.

Proper Shipping Name: **N.O.S Xylenes**

UN No: **1993**

Hazard Class: **3**

Packing Group: **III**

Marine Pollutant (IMDG only): **Marine Pollutant**

Emergency Schedule No (IMDG only): **F-E S-D**

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15. REGULATORY INFORMATION

The product is classified and labelled for supply in accordance with the CHIP Regulations 2002 (SI No. 2002/1689) as follows:



XN HARMFUL



N DANGEROUS FOR THE ENVIRONMENT

- R10** FLAMMABLE
R20/21 HARMFUL BY INHALATION, IN CONTACT WITH SKIN
R51/53 TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG TERM ADVERSE EFFECTS IN AQUATIC ENVIRONS
R65 HARMFUL: MAY CAUSE LUNG DAMAGE IF SWALLOWED
S23/51 DO NOT BREATHE FUMES/SPRAY. USE ONLY IN WELL VENTILATED AREAS
S36/37 WEAR SUITABLE PROTECTIVE CLOTHING/GLOVES
S61 AVOID RELEASE TO THE ENVIRONMENT. REFER TO SPECIAL INSTRUCTIONS/SAFETY DATA SHEET

Contains MARINE POLLUTANT
Contains XYLENE, MIXTURE OF ISOMERS

The information contained in this safety datasheet 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

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 shown in section 1 without first referring to the supplier and obtaining written handling instructions. As the specific conditions of the 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 Control of Substances Hazardous to Health Regulations 1999 (COSHH)

The Petroleum (Consolidation) Act 1928

Manual Handling: Guidance on Regulations 1998

Dangerous Substances and Explosive Atmospheres Regulation
DSEAR(2002)

Environmental Protection Act 1990

THIS SAFETY DATA SHEET FOLLOWS THE REQUIREMENTS OF DIRECTIVE 93/112/EEC. THE INFORMATION CONTAINED HEREIN IS CORRECT TO THE BEST OF OUR KNOWLEDGE AT THE DATE OF PUBLICATION AND NO LIABILITY CAN BE ACCEPTED FOR ANY LOSS, INJURY OR DAMAGE RESULTING FROM ITS USE. IT IS INTENDED AS A GUIDE FOR THE SAFE HANDLING, STORAGE AND USE UNDER NORMAL CONDITIONS, BUT IT DOES NOT NECESSARILY REFER TO THE PARTICULAR REQUIREMENT OF THE CUSTOMER WHEN FURTHER ADVICE SHOULD BE OBTAINED

