



MATERIALS SAFETY DATASHEET - SHIELDSEAL LIQUID WATERPROOFING SYSTEM

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

- 1.1 Product identifier: ShieldSEAL
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:
Use: Elastomeric material of polyurethane (polyol and isocyanate) for waterproofing and protection
- 1.3 Details of the supplier of the safety data sheet:
Shield Membranes Limited,
Princewood Rd, Corby,
Northants, NN17 4AP
- T - +44 (0)207 740 9279
shieldmembranes.com
- E - info@shieldmembranes.com
- W - http://www.shieldmembranes.com
- 1.4 Emergency telephone number:
+44 (0)207 740 9279
- Opening Times: 08:00 - 17:30
- Monday to Friday

SECTION 2: HAZARDS IDENTIFICATION

- 2.1 Classification of the substance or mixture
Health risks: Acute Inhalation Toxicity - Category 4 - Warning (CLP: Acute Tox. 4) H332
Physical hazards: Flammable liquids - Category 3 - Warning (CLP: Flam. Liq. 3) H226
- 2.2 Label elements
Class and category of risk,
EC Regulation Code EC 1272/2008 (CLP)
Risk Pictogram:



Warning Message:
Attention

Indication of danger:
H226 Flammable liquid and vapour
H332 Harmful if inhaled



Careful Handling Advice

General Advice:

- If medical advice is needed, have product container or label at hand
- Keep out of reach of children
- Read label before use

Prevention:

- Keep away from heat / sparks / open flames / hot surfaces. No Smoking

Response:

- Use all means for extinction.
- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Storage

- Always store in the original container, in a cool, well ventilated surroundings
- Always keep containers closed when not in use
- Keep away from naked flames

Safe disposal procedure

- Dispose of this material and its container to hazardous or special waste collection point, in accordance with the local, regional, national and/or international regulation

Contents

Xylene

- 2.3 Other dangers
None under normal conditions

Section 3: Composition / Component Information

Chemical description: Mixture

Potentially hazardous components: The product is dangerous

Component Name	Content	CAS No.	EC No.	Index No.	Reach Ref.	Classification
Xylene	10 -15 %	1330 - 20 - 7	215 - 535 - 7	601 - 022 - 00 - 9	-	Flam. Liq. 3 _ H226 Acute Tox.4 (Skin) _ H312 Acute Tox. 4 (inhal) _ H332 Skin Irrit. 2 _ H315 STOT SE 3 _ H335



Section 4: FIRST AID

4.1 First aid procedure

Inhalation:

IN THE EVENT OF INHALATION: Take the person outside into the fresh air and seat them in a comfortable breathing position. Immediately call a TOXICOLOGY INFORMATION CENTRE or a doctor. Specific treatment is urgently required.

Contact with the skin:

Remove clothing and thoroughly clean the skin exposed to the product with mild soap and water; rinse off with warm water.

Contact with the eyes:

Rinse immediately in plenty of water. Seek medical assistance if pain or irritation continues.

Swallowing:

DO NOT induce vomiting. Seek emergency medical attention.

4.2 Main symptoms related to use:

It is not considered to present significant risk when used responsibly under normal conditions

4.3 Directions to be followed in the event of any medical attention and special treatment which should be dispensed immediately.

General Information:

Never administer anything by mouth to a person in an unconscious state. If the person feels unwell visit a doctor (and, if possible, show them the product information label).

Section 5: PROCEDURE IN THE EVENT OF FIRE

5.1 Fire extinction procedures

Correct methods:

Foam. Water mist. Dry powder. Carbon Dioxide. Sand.

Incorrect extinction methods:

NEVER employ a direct jet of water.

Risk of fire in the vicinity:

Use water spray or mist to cool down any containers exposed to fire.

5.2 Specific risks resulting from the substance or mixture

Imflammable nature:

Inflammable liquid and vapours.

Products presenting specific dangers on combustion:

In the event of fire, potentially harmful smoke and vapours may be produced.

5.3 Recommendations for all personnel when fighting fires

Personal protection in the event of fire:

Never enter the fire area without adequate protective equipment, including respiratory protection.

Special procedure:

In the event of chemical fire take all the normal precautions. Avoid water from fire extinction coming into contact with affected areas.



Section 6: PROCEDURE IN THE EVENT OF ACCIDENTAL SPILLAGE

6.1 Personal safety precautions, protective equipment and emergency procedures

For the emergency personnel

Equip all cleaning personnel with adequate protective clothing and equipment. Ventilate the area.

Technical procedures

Take special precautions to avoid any electrical charges. Eliminate all possible sources of ignition. Avoid all naked flames. Do not smoke.

Special precautions

Eliminate all possible sources of ignition.

6.2 Precautions to protect the environment

Avoid spillage of the product into drains or water pipes. If the product does enter public water supply pipes, immediately notify the authorities

6.3 Containment and cleaning method and materials

Cleaning methods:

Soak up the split product using inert solids, such as clay or diatomaceous earth, as quickly as possible. Collect and dispose of spillage in appropriate containers

6.4 Reference to other sections

See section 8. Personal protection/exposure controls

Section 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Technical protective measures:

Ensure proper ventilation of the processing area to avoid a build up of vapours.

All equipment must be correctly earthed and procedures followed to prevent static electrical charges.

Handling:

Wash hand and exposed skin thoroughly with a mild soap and water before eating, smoking and leaving work. Handle all empty container with care as residue vapours may still be inflammable.

Special precautions:

Do not expose to naked flames. Do not smoke.

Inflammable air-vapour mixtures may be formed on use.

Store and handle in the same manner as any other product which represents a serious health risk or potential danger of fire or explosion

7.2 Conditions for safe storage, including possible incompatibilities

Storage:

Always store in the original containers, in cool, well ventilated surroundings. Always keep containers closed when not in use. Keep away from naked flames.

Always store away from the following:

Strong acids and bases. Ignition sources. Direct sunlight. Heat sources.



7.3 Specific end uses
None.

Section 8: PERSONAL PROTECTION / EXPOSURE CONTROLS

8.1 Exposure control
Personal protection



Personal protection:

Avoid all unnecessary exposure as far as possible

Protection of the respiratory tracts:

In cases where excessive vapour may be produced, always use suitable masks.

Protection for the hands:

In situations involving repeated contact, always wear gloves.

Protection for the eyes:

Special chemical product/protective goggles should be worn.

Other precautions:

Avoid eating and smoking during use



Section 9: CHEMICAL AND PHYSICAL PROPERTIES

9.1 Information on basic chemical and physical properties

Physical State: Viscous liquid

Colour: etc.

Smell: Characteristic

Odour threshold: --

pH value: --

Melting point [°C]: --

Decomposition Point [°C]: --

Critical temperature [°C]: --

Spontaneous ignition temperature [°C]: --

Flammability: Liquid and vapour flammable

Flash point [°C]: > 30 °C

Initial boiling point [°C]: --

Final boiling point [°C]: --

Rate of evaporation: --

Acidic/alkaline reserves [g NaOH/100g]: --

Explosion limits - Lower [%]: --

Explosion limits - Upper [%]: --

Vapour pressure mm/Hg: --

Vapour density: --

Density [G/cm]: 1,4 - 1,5

Water solubility [% in weight]: --

Water solubility: Insoluble

Log Pow octanol/water at 20°C: --

Solubility: Organic Solvents

Viscosity a 20°C [mPa.s]: 5.000 - 7.000

9.2 Additional information

Explosive properties: --

Oxidising properties: --

Section 10: STABILITY AND REACTIVITY

10.1 Reactivity: Not established

10.2 Stability

Chemical stability:

Stable under recommended storage conditions.

10.3 Possibility of dangerous reactions

Dangerous reactions: Not established

10.4 Situations to avoid:

Extremely high or low temperatures. Direct sunlight. Uncontrolled fire. Overheating. Heat. Sparks.

10.5 Materials to avoid:

Strong acids. Strong bases.

10.6 Hazardous decomposition products:

Smokes may release flammable gases.



Section 11: TOXOLOGICAL INFORMATION

- 11.1 Acute toxicity: Harmful if inhaled.
- Corrosivity: Yet to be established.
- Irritation: Yet to be established.
- Awareness: Yet to be established.
- Mutagenicity: Yet to be established.
- Carcinogenesis: Yet to be established.
- Toxic for reproduction: Yet to be established.
- Specific toxicity in certain organisms on first exposure: Yet to be established.
- Specific toxicity in certain organisms on repeated exposure: Yet to be established.
- Aspiration hazard: Yet to be established.

SECTION 12: ECOLOGICAL INFORMATION

- 12.1 Toxicity
Toxicity information: Yet to be established.
- 12.2 Persistency - degradability: Biodegradable.
- 12.3 Potential for bioaccumulation: Yet to be established.
- 12.4 Soil mobility
Log Pow octanol / water at 20°C: No data available.
Soil mobility: Yet to be established.
- 12.5 Results of PBT & vPvB assessment Results of PBT & vPvB assessment: Not applicable.
- 12.6 Other adverse effects
Precautions for protection of the environment: Avoid release into the environment.

SECTION 13: DISPOSAL CONSIDERATIONS / PROCEDURES

- 13.1 Correct procedure for the treatment of residues
- General:
Avoid release into the environment. Disposal or dumping in accordance with local / national legislation.
- Special precautions:
Handle all empty containers with care as residue vapours may still be inflammable.

SHIELD MEMBRANES

Section 14: TRANSPORTATION INFORMATION

TRADE NAME: ShieldSEAL			
TRANSPORT REGULATIONS	ADR	IMDG	IATA
ONU Number	UN1139		
Name	COATING SOLUTION		
NOS Name	---		
Danger Labels			
Packing Group	III		
Tunnels Classification	(E)	---	---
Flash Point (°C)	27°C		
Dangerous environment / Marine Pollutant	NO	NO	NO
Packing Instruction	P001	P001	Y334 / 355 / 366

Section 15: REGULATORY INFORMATION

- 15.1 Specific legislation and regulations relating to health, safety and environment applicable to substance or mixture: Ensure compliance with all local and national laws and regulations.
- 15.2 Chemical safety assessment: Not undertaken.

Section 16: OTHER INFORMATION

List of referenced H phrases:

H226 Flammable liquid and vapour.
H332 Harmful if inhaled.

List of referenced P phrases:

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.

P378 Use all means for extinction.

P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P403 + P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

In accordance with (EC) REACH regulation No. 1907/2006 and (EC) CLP regulation No. 1272/2008

DISCLAIMER: The information included in this Safety Data Sheet was obtained from sources we believe to be reliable. Nevertheless, this information is provided without any express or implicit guarantee of its complete accuracy. The conditions and methods of handling, storage, use or disposal of the product remain beyond our control and also potentially beyond our knowledge. For this and other reasons, we will accept no liability for any loss, damage or costs resulting from, or related to, the handling, storage, use or disposal of the product. If the product is used as a component in other products, it is also possible that this Safety Information may no longer apply.

Shield Membranes Ltd, 14 Princewood Road, Corby, NN17 4AP

T: (+44) 207 740 9279

E: info@shieldmembranes.com

W: www.shieldmembranes.com