

Material Safety Datasheet for Solseal Aqua Barrier – Component B

SECTION 1: IDENTIFICATION OF SUBSTANCE / PREPARATION AND COMPANY

Product Material & Description: Two component water-thinable epoxy coat.
Trade Name: Solseal Aqua Barrier.
Chemical Name & Synonyms: None.
Manufacturer: Solco.
Address: Unit 51, Portmanmoor Road Ind Est, Ocean Park, Cardiff, CF24 5HB.
Emergency Telephone Number: + 44 (0)808 1686927.

Relevant identified uses

Industrial/Professional use spec : For professional use only.
 Use of the substance/mixture : Two component water-thinable epoxy coat.

Uses advised against

No additional information available

SECTION 2: HAZARDS IDENTIFICATION / ADVERSE HUMAN HEALTH EFFECTS

2.1. Classification of the Substance or Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin corrosion/irritation, Category 2 H315
 Serious eye damage/eye irritation, Category 1 H318
 Skin sensitisation, Category 1 H317
 Hazardous to the aquatic environment — H410
 Chronic Hazard, Category 1
 Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label Elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS05

GHS07

GHS09

Signal word (CLP) :

Danger

Hazardous ingredients :

Fatty acids, C18-unsatd, dimers, polymers with Bisphenol A, Epichlorohydrin, Formaldehyde, Glycidyl Toly Ether, tall oil fatty acid

Hazard statements (CLP) :

H315 - Causes skin irritation.
 H317 - May cause an allergic skin reaction.
 H319 - Causes serious eye irritation.
 H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements (CLP) :

P102 - Keep out of reach of children.
 P280 - Wear protective gloves, face protection, eye protection.
 P261 - Avoid breathing vapours.
 P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P273 - Avoid release to the environment.
 P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

2.3. Other Hazards

No additional information available

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS**3.1. Substances**

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Fatty acids, C18-unsatd, dimers, polymers with bisphenol A, epichlorohydrin, formaldehyde, glycidyl tolyl ether, tall oil fatty acid	(CAS-No.) 210369-44-1	17 - 30	Eye Irrit. 2, H319 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 2, H411
Formaldehyde, Polymer with (Chloromethyl)Oxirane and Phenol, mw<=700	(CAS-No.) 9003-36-5 (REACH-no) 01-2119454392-40	7,5 - 15	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 2, H411
Oxirane, Mono[(C12-14-Alkyloxy)Methyl] derivs.	(CAS-No.) 68609-97-2 (EC-No.) 271-846-8 (EC Index-No.) 603-103-00-4 (REACH-no) 01-2119485289	3 - 10	Skin Irrit. 2, H315 Skin Sens. 1, H317
Specific concentration limits:			
Name	Product identifier	Specific concentration limits	
Reaction Product: Bisphenol-A-(Epichlorohydrin); Epoxy Resin (number average molecular weight ≤ 700)	(CAS-No.) 25068-38-6 (EC-No.) 500-033-5 (EC Index-No.) 603-074-00-8 (REACH-no) 01-2119456619-26	(C ≥ 5) Skin Irrit. 2, H315 (C ≥ 5) Eye Irrit. 2, H319	

Full text of H-statements: see section 16

SECTION 4: FIRST AID MEASURES**4.1. Description of First Aid Measures**

First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Assure fresh air breathing. Allow the victim to rest.
First-aid measures after skin contact	: Wash with plenty of water/.... Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

4.2. Most Important Symptoms and Effects, both Acute and Delayed

Symptoms/effects after inhalation	: May cause an allergic skin reaction.
Symptoms/effects after skin contact	: Causes skin irritation.
Symptoms/effects after eye contact	: Causes serious eye irritation.

4.3. Indication of any Immediate Medical Attention and Special Treatment Needed

No additional information available

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing Media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special Hazards Arising from the Substance or Mixture

No additional information available

5.3. Advice for Firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.

Protection during firefighting: : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

6.2. Environmental Precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

6.3. Methods and Material Containment and Cleaning Up

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.
Collect spillage. Store away from other materials.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Avoid breathing vapours.

Hygiene measures : Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Heat sources. Keep container closed when not in use.

Incompatible products : Strong bases. Strong acids. amines.

Incompatible materials : Direct sunlight. Extremely high or low temperatures.

7.3. Specific end use(s)

No additional information available

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control Parameters

No additional information available

8.2. Exposure controls

Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection	Wear protective gloves.
Eye protection	Chemical goggles or safety glasses
Skin and body protection	Wear suitable protective clothing
Respiratory protection	Wear appropriate mask

Other information:

Do not eat, drink or smoke during use.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

Physical state	: Liquid.
Colour	: White.
Odour	: Characteristic.
Odour threshold	: No data available.
pH	: 7.
Relative evaporation rate (butylacetate=1)	: No data.
Melting point	: No data.
Freezing point	: No data available.
Boiling point	: No data available.
Flash point	: Not applicable.
Auto-ignition temperature	: No data available.
Decomposition temperature	: No data available.
Flammability (solid, gas) Vapour pressure	: Not applicable, Non flammable.
Relative vapour density at 20 °C	: No data available.
Relative density	: No data available.
Density	: 1.05 g/cm ³ .
Solubility	: Soluble in water.
Log Pow	: No data available.
Viscosity, kinematic	: 47.619 mm ² /s.
Viscosity, dynamic	: 50 cP.
Explosive properties	: No data available.
Oxidising properties	: No data available.
Explosive limits	: No data available.

9.2. Other Information

No additional information available

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No additional information available

10.2. Chemical Stability

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

10.3. Possibility of Hazardous Reactions

None under normal use.

10.4. Conditions to Avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible Materials

Strong acids. Strong bases. amines.

10.6. Hazardous Decomposition Products

None under normal conditions.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on Toxicological Effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
Skin corrosion/irritation	: Causes skin irritation pH: 7
Serious eye damage/irritation	: Causes serious eye irritation pH: 7
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Reproductive toxicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
STOT-single exposure	: Not classified
Additional information	: Based on available data, the classification criteria are not met
STOT-repeated exposure	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Aspiration hazard	: Not classified
Additional information	: Based on available data, the classification criteria are not met

Solseal Aqua Barrier Component A

Viscosity, kinematic	47.619 mm ² /s
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Potential adverse human health effects and symptoms : Based on available data, the classification criteria are not met.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecology - water	: Toxic to aquatic life with long lasting effects.
Acute aquatic toxicity	: Not classified
Chronic aquatic toxicity	: Toxic to aquatic life with long lasting effects.

12.2. Persistence and Degradability

Persistence and degradability : May cause long-term adverse effects in the environment.

12.3. Bioaccumulative Potential

Bioaccumulative Potential : No available data.

12.4. Mobility in Soil

No additional information available.

12.5. Results of PBT and vPvB Assessment

No additional information available.

12.6. Other adverse effects

Additional information : Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS**13.1. Waste Treatment Methods**

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to a hazardous or special waste collection point.

Ecology - Waste Materials : Avoid release to the environment.

SECTION 14: TRANSPORT INFORMATION

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN Number

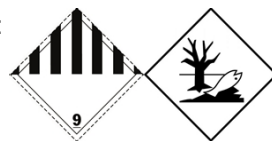
UN-No. (ADR) : 3082
 UN-No. (IMDG) : 3082
 UN-No. (IATA) : 3082
 UN-No. (ADN) : Not applicable
 UN-No. (RID) : Not applicable

14.2. UN Proper Shipping Name

Proper Shipping Name (ADR) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
 Proper Shipping Name (IMDG) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
 Proper Shipping Name (IATA) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
 Proper Shipping Name (ADN) : Not applicable
 Proper Shipping Name (RID) : Not applicable
 Transport document description (ADR) : UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (liquid epoxy resin, aliphatic glycidyl ether), 9, III, (E)
 Transport document description (IMDG) : UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (liquid epoxy resin, aliphatic glycidyl ether), 9, III, MARINE POLLUTANT
 Transport document description (IATA) : UN 3082 Environmentally hazardous substance, liquid, n.o.s. (liquid epoxy resin, aliphatic glycidyl ether), 9, III

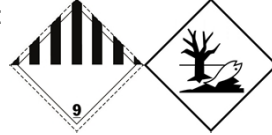
14.3. Transport Hazard Class(es)**ADR**

Transport hazard class(es) (ADR) : 9
 Danger labels (ADR) : 9

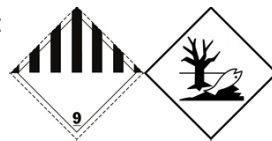


IMDG

Transport hazard class(es) (IMDG) : 9
 Danger labels (IMDG) : 9

**IATA**

Transport hazard class(es) (IATA) : 9
 Hazard labels (IATA) : 9

**ADN**

Transport hazard class(es) (ADN) : Not applicable

**RID**

Transport hazard class(es) (RID) : Not applicable

**14.4. Control Parameters**

Packing group (ADR) : III
 Packing group (IMDG) : III
 Packing group (IATA) : III
 Packing group (ADN) : Not applicable
 Packing group (RID) : Not applicable

14.5. Environmental Hazards

Dangerous for the environment : Yes
 Marine pollutant : Yes
 Other information : No supplementary information available

14.6. Special Precautions for User**Overland transport**

Classification code (ADR) : M6
 Special provisions (ADR) : 274, 335, 601
 Limited quantities (ADR) : 5I
 Excepted quantities (ADR) : E1
 Packing instructions (ADR) : P001, IBC03, LP01, R001
 Special packing provisions (ADR) : PP1
 Mixed packing provisions (ADR) : MP19
 Vehicle for tank carriage : AT
 Transport category (ADR) : 3

Special provisions for carriage - Packages : V12
(ADR)

Special provisions for carriage - : CV13
Loading, unloading and handling
(ADR)

Hazard identification number (Kemler No.) 90

Orange plates :



Tunnel restriction code (ADR) : E

EAC code : •3Z

Transport by sea

Special provisions (IMDG) : 274, 335

Limited quantities (IMDG) : 5 L

Excepted quantities (IMDG) : E1

Packing instructions (IMDG) : P001, LP01

Special packing provisions (IMDG) : PP1

IBC packing instructions (IMDG) : IBC03

EmS-No. (Fire) : F-A

EmS-No. (Spillage) : S-F

Stowage category (IMDG) : A

Air transport

PCA Excepted quantities (IATA) : E1

PCA Limited quantities (IATA) : Y964

PCA limited quantity max net quantity (IATA):

30kgG

PCA packing instructions (IATA) 964

PCA max net quantity (IATA) : 450L

CAO packing instructions (IATA) 964

CAO max net quantity (IATA) : 450L

Special provisions (IATA) : A97, A158, A197

ERG code (IATA) : 9L

Inland waterway transport

No data available

Rail transport

No data available

14.7. Transport in Bulk according to Annex II of Marpol and the IBC Code

Not applicable.

SECTION 15: REGULATORY INFORMATION

15.1. Safety and Environmental Regulations / Legislation Specific for the Substance or Mixture

EU-Regulations

Contains no REACH substances with Annex XVII restrictions Contains no substance on the REACH candidate list Contains no REACH Annex XIV substances.

Directive 2012/18/EU (SEVESO III)

15.2. Chemical Safety Assessment

No data available.

SECTION 16: OTHER INFORMATION

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16. December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information : None.

Full text of H- and EUH-statements:	
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.
EUH205	Contains epoxy constituents. May produce an allergic reaction.