PermaSEAL Flexible Tanking Slurry
Safety Data Sheet - Part B

according to Regulation (EC) No 1907/2006 (REACH), as amended

Date of issue: 04/11/2026 Revision date: 04/11/2026 Version: 1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: PermaSEAL Flexible Tanking Slurry - Part B

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use: Water dispersion of synthetic polymers. Liquid component of the two-part flexible tanking slurry.

Uses advised against: Not available.

1.3. Details of the supplier of the safety data sheet

Supplier: Permagard Products Limited
Unit B2 - B5 Worthy Road
Chittening Industrial Estate
Avonmouth
Bristol
BS11 0YB

Telephone: 0117 982 3282

Office hours: Monday - Friday, 9am - 5pm

Fax: 0117 938 1584

Email: Sales@permagard.co.uk

1.4. Emergency telephone number

Company contact: 0117 982 3282 (Monday - Friday, 9am - 5pm)

Medical advice: Call NHS 111 or a doctor.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (CLP): Not classified as hazardous according to Regulation (EC) No 1272/2008 (CLP), as stated in the supplier SDS. See the supplier clarification note in Section 16.

Other effects: No other hazards identified by the supplier.

2.2. Label elements

Pictograms: None required under the supplied mixture classification.

Signal word: None.

Supplemental statements: EUH208 Contains 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one. May produce an allergic reaction.
EUH208 Contains Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1). May produce an allergic reaction.
EUH210 Safety data sheet available on request.

Special provisions: No special provisions according to Annex XVII of REACH and subsequent amendments are stated in the supplier SDS.

2.3. Other hazards

Other hazards: No PBT, vPvB or endocrine disruptor substances are present at concentrations >=0.1%. No other hazards are stated.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not relevant. The product is a mixture.

3.2. Mixtures

Mixture identification: PermaSEAL Flexible Tanking Slurry - Part B.

Hazardous ingredient	Identifiers / REACH	Concentration	CLP classification
Isotridecylalcohol, ethoxylated, sulfated, sodium salt	CAS: 150413-26-6; EC: 688-316-0; REACH: N.A.	>=1 - <2.5 %	Eye Irrit. 2, H319; Skin Irrit. 2, H315

Hazardous ingredient	Identifiers / REACH	Concentration	CLP classification
1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	CAS: 2634-33-5; EC: 220-120-9; Index: 613-088-00-6; REACH: 01-2120761540-60-XXXX	>=0.036 - <0.05 %	Acute Tox. 2, H330; Skin Irrit. 2, H315; Eye Dam. 1, H318; Skin Sens. 1A, H317; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302. M-factor (acute): 1; M-factor (chronic): 1.
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	CAS: 55965-84-9; EC: 611-341-5; Index: 613-167-00-5; REACH: N.A.	>=0.001 - <0.0015 %	Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 3, H301; Skin Corr. 1C, H314; Skin Sens. 1A, H317; Acute Tox. 2, H310; Acute Tox. 2, H330; Eye Dam. 1, H318; EUH071. M-factor (acute): 100; M-factor (chronic): 100.

Specific concentration limits and acute toxicity estimates:

Component	Limit / estimate
Benzisothiazolinone (CAS 2634-33-5)	C >=0.036%: Skin Sens. 1A, H317. ATE (oral): 450 mg/kg body weight. ATE (inhalation, dust/mist): 0.21 mg/L.
Isothiazolinone reaction mass (CAS 55965-84-9)	C >=0.6%: Skin Corr. 1C, H314; C >=0.6%: Eye Dam. 1, H318. 0.06% <= C <0.6%: Skin Irrit. 2, H315; 0.06% <= C <0.6%: Eye Irrit. 2, H319. C >=0.0015%: Skin Sens. 1A, H317.

Full text of hazard statements is given in Section 16. Ingredient classifications do not constitute the mixture classification. The supplier classification discrepancy is recorded in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Skin contact: Wash with plenty of water and soap.

Eye contact: Wash immediately with water.

Ingestion: Do not induce vomiting. Get medical attention and show this safety data sheet and the hazard label.

Inhalation: Move the casualty to fresh air and keep warm and at rest.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms / effects: Not available.

4.3. Indication of any immediate medical attention and special treatment needed

Treatment: N.A. No further information available. See Section 4.1.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable media: Water and carbon dioxide (CO_2).

Unsuitable media: None in particular.

5.2. Special hazards arising from the substance or mixture

Special hazards: Do not inhale explosion and combustion gases. Burning produces heavy smoke.

5.3. Advice for firefighters

Firefighter advice: Use suitable breathing apparatus.
Collect contaminated firefighting water separately and prevent its discharge into drains.
Move undamaged containers out of the immediate hazard area if it is safe to do so.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Non-emergency personnel: Wear personal protective equipment. Move people to safety. See protective measures in Sections 7 and 8.

Emergency responders: Wear personal protective equipment.

6.2. Environmental precautions

Precautions: Do not allow the product to enter soil, subsoil, surface water or drains. Contain leakages with earth or sand. Inform the responsible authorities in case of gas escape or entry into waterways, soil or drains.

6.3. Methods and material for containment and cleaning up

Cleaning up: Use suitable absorbent material, organic absorbent or sand. Wash with plenty of water. Retain contaminated wash water for disposal.

6.4. Reference to other sections

References: See Sections 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling precautions: Avoid contact with skin and eyes and inhalation of vapours and mists. Do not eat or drink while working. See Section 8 for recommended protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

Storage: Keep away from food, drink and animal feed. Store in adequately ventilated premises.

Incompatible materials: None in particular.

7.3. Specific end use(s)

Recommendations: None in particular.

Sector-specific solutions: None in particular.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits: No data available in the supplier SDS.

8.2. Exposure controls

Eye protection: Not needed for normal use according to the supplier SDS. Follow good working practices.

Skin protection: No special precautions are required for normal use according to the supplier SDS.

Hand protection: Suitable safety glove materials to EN ISO 374 are listed below.

Glove material	Code	Minimum thickness	Minimum breakthrough
Polychloroprene	CR	>=0.5 mm	>=480 min
Nitrile rubber	NBR	>=0.35 mm	>=480 min
Butyl rubber	IIR	>=0.5 mm	>=480 min
Fluorinated rubber	FKM	>=0.4 mm	>=480 min

Respiratory protection: Not needed for normal use according to the supplier SDS. Follow good working practices.

PPE care: PPE should comply with relevant standards, including EN ISO 374 for gloves and EN 166 for goggles, and be correctly maintained and stored. Consult the equipment supplier for chemical suitability and user information.

Hygienic / technical measures: Not available.

Engineering controls: Not available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Liquid.

Appearance: Latex.

Colour: White.

Odour: None.

Melting / freezing point: Not available.

Boiling point / range: Not available.

Flammability: N.A.

Explosion limits: Not available.

Flash point: Not available.

Auto-ignition: Not available.

Decomposition temperature: Not available.

pH: Not available.

Viscosity:	Not available.
Kinematic viscosity:	Not available.
Water solubility:	Very soluble.
Oil solubility:	Not available.
Partition coefficient:	n-Octanol/water (log value): Not available.
Vapour pressure:	Not available.
Density / relative density:	1.02 g/cm3.
Relative vapour density:	Not available.
Particle size:	Not available.

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No further information available.

9.2.2. Other safety characteristics

Miscibility:	Not available.
Conductivity:	Not available.
Other information:	No other relevant information.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity: Stable under normal conditions.

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: None.

10.4. Conditions to avoid

Conditions to avoid: Stable under normal conditions.

10.5. Incompatible materials

Materials to avoid: None in particular.

10.6. Hazardous decomposition products

Decomposition products: None.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Mixture assessment as reported in the supplier SDS. The sensitisation classification requires supplier clarification; see Section 16.

Hazard class	Mixture assessment
Acute toxicity	Not classified. Based on available data, the classification criteria are not met.
Skin corrosion / irritation	Not classified. Based on available data, the classification criteria are not met.
Serious eye damage / irritation	Not classified. Based on available data, the classification criteria are not met.
Respiratory or skin sensitisation	Not classified. Based on available data, the classification criteria are not met.
Germ cell mutagenicity	Not classified. Based on available data, the classification criteria are not met.
Carcinogenicity	Not classified. Based on available data, the classification criteria are not met.
Reproductive toxicity	Not classified. Based on available data, the classification criteria are not met.
STOT - single exposure	Not classified. Based on available data, the classification criteria are not met.
STOT - repeated exposure	Not classified. Based on available data, the classification criteria are not met.
Aspiration hazard	Not classified. Based on available data, the classification criteria are not met.

Toxicological information on main components:

Component / CAS	Endpoint / route	Species	Result
Isotridecylalcohol, ethoxylated, sulfated, sodium salt / 150413-26-6	LD50 oral	Rat	>2000 mg/kg
1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one / 2634-33-5	ATE oral	Not stated	450 mg/kg body weight
Benzisothiazolinone / 2634-33-5	ATE inhalation (dust/mist)	Not stated	0.21 mg/L
Benzisothiazolinone / 2634-33-5	LD50 oral	Rat	=670 mg/kg
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) / 55965-84-9	LC50 inhalation	Rat	=2.36 mg/L, 4 h
Isothiazolinone reaction mass / 55965-84-9	LD50 skin	Rabbit	=660 mg/kg
Isothiazolinone reaction mass / 55965-84-9	LD50 oral	Rat	=53 mg/kg

11.2. Information on other hazards

Endocrine properties: No endocrine disruptor substances present at concentrations >=0.1%.

SECTION 12: Ecological information

12.1. Toxicity

Working practices: Adopt good working practices to prevent release of the product to the environment.

Mixture assessment: Not classified for environmental hazards. Based on available data, the classification criteria are not met.

Component ecotoxicological data:

Component / CAS	Endpoint / organism	Result	Exposure
Isotridecylalcohol, ethoxylated, sulfated, sodium salt / 150413-26-6	LC50 fish	=1240 mg/L	96 (unit not stated)
1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one / 2634-33-5	LC50 fish	=2.15 mg/L	Not stated
Benzisothiazolinone / 2634-33-5	NOEC algae	=0.0403 mg/L	72 h
Benzisothiazolinone / 2634-33-5	EC50 algae	=0.11 mg/L	72 h
Benzisothiazolinone / 2634-33-5	EC10 algae	=0.04 mg/L	72 h
Benzisothiazolinone / 2634-33-5	EC50 Daphnia	=3.27 mg/L	48 h
Benzisothiazolinone / 2634-33-5	NOEC Daphnia	=1.2 mg/L	21 d
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) / 55965-84-9	EC50 Daphnia	=0.12 mg/L	48 (unit not stated)
Isothiazolinone reaction mass / 55965-84-9	LC50 fish	=0.22 mg/L	96 (unit not stated)
Isothiazolinone reaction mass / 55965-84-9	EC50 algae	=0.0052 mg/L	48 h
Isothiazolinone reaction mass / 55965-84-9	NOEC algae	=0.00049 mg/L	Not stated
Isothiazolinone reaction mass / 55965-84-9	NOEC fish	=0.098 mg/L	28 d
Isothiazolinone reaction mass / 55965-84-9	NOEC Daphnia	=0.004 mg/L	21 d

Decimal punctuation has been normalised. Exposure units omitted from the supplier SDS have not been inferred.

12.2. Persistence and degradability

Benzisothiazolinone: CAS 2634-33-5: Readily biodegradable.

12.3. Bioaccumulative potential

Information: N.A.

12.4. Mobility in soil

Information: N.A.

12.5. Results of PBT and vPvB assessment

Information: No PBT, vPvB or endocrine disruptor substances present at concentrations >=0.1%.

12.6. Endocrine disrupting properties

Information: No endocrine disruptor substances present at concentrations >=0.1%.

12.7. Other adverse effects

Information: Not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information: Avoid or minimise waste generation. Recover material where possible. A waste code under the European List of Waste cannot be specified because it depends on use. Contact an authorised waste disposal service.

Disposal methods: Dispose of product, solutions, packaging and by-products in accordance with environmental and waste legislation and local authority requirements. Use a licensed waste contractor for surplus and non-recyclable products. Do not dispose of waste into sewers. Clean waste packaging should be recycled where possible and authorised.

Hazardous waste: No, as stated in the supplier SDS.

Disposal considerations: Prevent entry into drains and watercourses. Follow applicable national and local regulations. If mixed with other wastes, the original waste code may no longer apply and an appropriate code must be assigned. Dispose of contaminated containers under national or local provisions. Contact the local waste authority for advice.

Special precautions: Dispose of material and containers safely. Take care when handling untreated empty containers. Avoid dispersal of spillage or runoff into soil, waterways, drains or sewers. Empty containers or liners may retain residues. Do not reuse empty containers.

SECTION 14: Transport information

Not classified as dangerous under transport regulations.

14.1. UN number or ID number

Information: Not applicable.

14.2. UN proper shipping name

Information: Not applicable.

14.3. Transport hazard class(es)

Information: Not applicable.

14.4. Packing group

Information: Not applicable.

14.5. Environmental hazards

Information: Not applicable.

14.6. Special precautions for user

Information: Not applicable.

Road / rail (ADR-RID): Not applicable.

Air (IATA): Not applicable.

Sea (IMDG): Not applicable.

14.7. Maritime transport in bulk according to IMO instruments

Information: Not applicable.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Legislation listed in the supplier SDS:

Legislation	Legislation
Dir. 98/24/EC (risks related to chemical agents at work)	Dir. 2000/39/EC (occupational exposure limit values)
Regulation (EC) No 1907/2006 (REACH)	Regulation (EU) No 2020/878
Regulation (EC) No 1272/2008 (CLP)	Regulation (EC) No 790/2009 (ATP 1 CLP) and (EU) No 758/2013
Regulation (EU) No 286/2011 (ATP 2 CLP)	Regulation (EU) No 618/2012 (ATP 3 CLP)
Regulation (EU) No 487/2013 (ATP 4 CLP)	Regulation (EU) No 944/2013 (ATP 5 CLP)
Regulation (EU) No 605/2014 (ATP 6 CLP)	Regulation (EU) No 2015/1221 (ATP 7 CLP)
Regulation (EU) No 2016/918 (ATP 8 CLP)	Regulation (EU) No 2016/1179 (ATP 9 CLP)
Regulation (EU) No 2017/776 (ATP 10 CLP)	Regulation (EU) No 2018/669 (ATP 11 CLP)
Regulation (EU) No 2018/1480 (ATP 13 CLP)	Regulation (EU) No 2019/521 (ATP 12 CLP)
Regulation (EU) No 2020/217 (ATP 14 CLP)	Regulation (EU) No 2020/1182 (ATP 15 CLP)
Regulation (EU) No 2021/643 (ATP 16 CLP)	Regulation (EU) No 2021/849 (ATP 17 CLP)
Regulation (EU) No 2022/692 (ATP 18 CLP)	Regulation (EU) No 2023/707
Regulation (EU) No 2023/1434 (ATP 19 CLP)	Regulation (EU) No 2023/1435 (ATP 20 CLP)
Regulation (EU) No 2024/197 (ATP 21 CLP)	Regulation (EU) No 2024/2564 (ATP 22 CLP)
Regulation (EU) No 2024/2865	Regulation (EU) No 2025/1222 (ATP 23 CLP)

Seveso III: No provisions stated under Directive 2012/18/EU.
REACH restrictions: Restrictions related to the product: None. Restrictions related to substances: 75.
SVHC substances: No SVHC substances present at concentrations >=0.1% (w/w).
National regulations: German storage class (TRGS-510): 10 - combustible liquids not assigned to another storage class.
German water hazard: Class 1: slightly hazardous for water.
Explosive precursors: Regulation (EU) 2019/1148: No substances contained.

15.2. Chemical safety assessment

Assessment: No chemical safety assessment has been carried out for the mixture.

SECTION 16: Other information

Preparation information: Prepared on 04/11/2026 using the supplier SDS dated 06/05/2026, version 3. Product and supplier identification have been adapted for PermaSEAL Flexible Tanking Slurry - Part B.

Supplier clarification: DRAFT - confirmation required before issue. The supplier SDS lists benzisothiazolinone at >=0.036 - <0.05% and gives a Skin Sens. 1A, H317 specific concentration limit of >=0.036%, while classifying the mixture as not hazardous. These entries appear inconsistent. The supplier mixture classification and ingredient data have been retained pending clarification.

Hazard statements: Full text of statements referenced in Sections 2 and 3 follows. Ingredient hazard statements are not the classification of Part B.

H301 Toxic if swallowed.
H302 Harmful if swallowed.
H310 Fatal in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H330 Fatal if inhaled.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
EUH071 Corrosive to the respiratory tract.

EUH208 Contains sensitising substances. May produce an allergic reaction. See Section 2.2 for the substance names.
EUH210 Safety data sheet available on request.

Hazard class / category	Description
Acute Tox. 2	Acute toxicity (inhalation or dermal), Category 2
Acute Tox. 3	Acute toxicity (oral), Category 3
Acute Tox. 4	Acute toxicity (oral), Category 4
Skin Corr. 1C	Skin corrosion, Category 1C
Skin Irrit. 2	Skin irritation, Category 2
Eye Dam. 1	Serious eye damage, Category 1
Eye Irrit. 2	Eye irritation, Category 2
Skin Sens. 1A	Skin sensitisation, Category 1A
Aquatic Acute 1	Acute aquatic hazard, Category 1
Aquatic Chronic 1	Chronic aquatic hazard, Category 1

Training advice: Safety training must be based on the workplace risk assessment, taking account of actual operating and environmental conditions.
Main source: Supplier safety data sheet dated 06/05/2026, version 3.
Bibliographic sources: ECDIN - Environmental Chemicals Data and Information Network, Joint Research Centre, European Commission; SAX Dangerous Properties of Industrial Materials, Eighth Edition, Van Nostrand Reinhold.
Editorial changes: Decimal punctuation and broken hazard-code lines have been normalised. Full text has been supplied for H301, H310, H314 and EUH071 referenced in Section 3 but omitted from the source Section 16.

Abbreviations used in this safety data sheet:

Abbreviation	Meaning
ADR / RID	Road / rail transport regulations for dangerous goods
ATE	Acute toxicity estimate
CAS / EC	Chemical Abstracts Service / European Community identifier
CLP	Classification, labelling and packaging
EC10 / EC50	Concentration causing 10% / 50% of an effect
LC50 / LD50	Median lethal concentration / median lethal dose
EWC / LoW	European Waste Catalogue / List of Waste
IATA / IMDG	Air / sea transport codes for dangerous goods
M-factor	Multiplying factor for aquatic hazard classification
N.A.	Not applicable
NOEC	No observed effect concentration
PBT / vPvB	Persistent, bioaccumulative and toxic / very persistent and very bioaccumulative
REACH	Registration, evaluation, authorisation and restriction of chemicals
STOT	Specific target organ toxicity
SVHC	Substance of very high concern

The information is based on knowledge available at the stated date and describes the product for health, safety and environmental purposes. It applies only to the product identified and does not guarantee a particular quality or property. The user must ensure that the information is appropriate and complete for the intended use. This draft requires supplier clarification of the classification issue identified above before issue.