

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing Date: 13.06.2023

Version Number: 1.0

Revision Date: 13.06.2023

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier:**Trade name: RIW TOUGHSEAL ECO BASE MID GREY**1.2 Relevant identified uses of the substance or mixture, and uses advised against:**

Relevant identified uses of the substance or mixture: Waterproofing.

Identified uses advised against: No further relevant information available.

**1.3 Details of the supplier of the safety data sheet:****Manufacturer/supplier:**RIW Limited  
487-488 Ipswich Road,  
Slough, Berkshire  
SL1 4EP

Tel: +44 (0)1753 944210

[www.riw.co.uk](http://www.riw.co.uk)Further information obtainable from: [enquiries@riw.co.uk](mailto:enquiries@riw.co.uk)**1.4 Emergency telephone number:**

For Chemical Emergency: (Spill, Leak, Fire, Exposure or Accident) - Call CHEMTREC (Day/Night) on:

Within USA & Canada : 800-424-9300,  
Outside USA & Canada : +1 703-741-5970

National emergency telephone number: CHEMTREC UK +(44)-870-8200418

**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture:****Classification according to Regulation (EC) No 1272/2008**Skin Irrit. 2            H315 Causes skin irritation.  
Eye Irrit. 2            H319 Causes serious eye irritation.  
Skin Sens. 1            H317 May cause an allergic skin reaction.  
Aquatic Chronic 2    H411 Toxic to aquatic life with long lasting effects.**2.2 Label elements:****Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the GB CLP regulation.

**Hazard pictograms**

GHS07    GHS09

**Signal word** Warning**Hazard-determining components of labelling:**bis[4-(2,3-epoxypropoxy)phenyl]propane  
Phenol, methylstyrenated  
oxirane, mono[(C12-14-alkyloxy)methyl] derivs  
Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and 2-(2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy)methyl)oxirane  
Phenol, styrenated

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Bisphenol F-Epoxy resin

**Hazard statements**

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H411 Toxic to aquatic life with long lasting effects.

**Precautionary statements**

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P273 Avoid release to the environment.

P280 Wear protective gloves / eye protection / face protection.

P302+P352 IF ON SKIN: Wash with plenty of water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P362+P364 Take off contaminated clothing and wash it before reuse.

**2.3 Other hazards:****Results of PBT and vPvB assessment:****PBT:** Not applicable.**vPvB:** Not applicable.**Determination of endocrine-disrupting properties**

68512-30-1	Phenol, methylstyrenated	List II
61788-44-1	Phenol, styrenated	List II

**SECTION 3: Composition/information on ingredients****3.2 Mixtures****Description:**

Mixture of substances listed below with non-hazardous additions.

For further information, please refer to the product technical data sheet.

**Dangerous components:**

CAS: 1675-54-3 EINECS: 216-823-5 Index number: 603-073-00-2 Reg.nr.: 01-2119456619-26-XXXX	bis[4-(2,3-epoxypropoxy)phenyl]propane ----- Aquatic Chronic 2, H411 Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317 EUH205 Specific concentration limits: Eye Irrit. 2; H319: C ≥ 5 % Skin Irrit. 2; H315: C ≥ 5 %	25-<30%
CAS: 68512-30-1 EINECS: 270-966-8 Reg.nr.: 01-2119555274-38-XXXX	Phenol, methylstyrenated ----- Skin Irrit. 2, H315; Skin Sens. 1, H317 Aquatic Chronic 3, H412	10-<20%
CAS: 68609-97-2 EINECS: 271-846-8 Index number: 603-103-00-4 Reg.nr.: 01-2119485289-22-XXXX	oxirane, mono[(C12-14-alkyloxy)methyl] derivs ----- Skin Irrit. 2, H315; Skin Sens. 1, H317	5-<10%
EC number: 701-263-0	Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)] bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)] bis(oxirane) and 2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}methyl) oxirane ----- Aquatic Chronic 2, H411 Skin Irrit. 2, H315; Skin Sens. 1, H317	5-<10%
CAS: 61788-44-1 EINECS: 262-975-0 Reg.nr.: 01-2119980970-27-XXXX	Phenol, styrenated ----- Aquatic Chronic 2, H411 Skin Irrit. 2, H315; Skin Sens. 1, H317	1-<3%

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CAS: 9003-36-5 NLP: 500-006-8 Reg.nr.: 01-2119454392-40-XXXX	Bisphenol F-Epoxy resin ----- Aquatic Chronic 2, H411 Skin Irrit. 2, H315; Skin Sens. 1, H317	1-<3%
CAS: 25068-38-6 NLP: 500-033-5 Index number: 603-074-00-8 Reg.nr.: 01-2119456619-26-XXXX	Reaction product: Bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700) ----- Aquatic Chronic 2, H411 Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317 EUH205 Specific concentration limits: Skin Irrit. 2; H315: C ≥ 5 % Eye Irrit. 2; H319: C ≥ 5 %	1-<3%

## SECTION 4: First aid measures

### 4.1 Description of first aid measures:

**General information:** Get medical advice/attention if you feel unwell.

**After inhalation:** IF INHALED: Remove person to fresh air and keep comfortable for breathing.

**After skin contact:** Wash with plenty of soap and water.

**After eye contact:** Rinse cautiously with water for several minutes.

**After swallowing:**

Rinse mouth.

Do NOT induce vomiting.

### 4.2 Most important symptoms and effects, both acute and delayed:

May cause sensitisation by skin contact.

Irritating to eyes.

### 4.3 Indication of any immediate medical attention and special treatment needed:

No further relevant information available.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media:

**Suitable extinguishing agents:** CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray.

### 5.2 Special hazards arising from the substance or mixture:

Formation of toxic gases is possible during heating or in case of fire.

### 5.3 Advice for firefighters:

**Protective equipment:** Wear self-contained respiratory protective device.

**Additional information:** Collect contaminated fire fighting water separately. It must not enter the sewage system.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation.

Wear protective equipment. Keep unprotected persons away.

**6.2 Environmental precautions:** Inform respective authorities in case of seepage into water course or sewage system.

### 6.3 Methods and material for containment and cleaning up:

Send for recovery or disposal in suitable receptacles.

### 6.4 Reference to other sections

See Section 7 for information on safe handling.

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See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling:

Do not eat, drink or smoke when using this product.  
Store in a well-ventilated place. Keep container tightly closed.  
Keep only in original packaging.  
Use only outdoors or in a well-ventilated area.

**Information about fire - and explosion protection:** No special measures required.

### 7.2 Conditions for safe storage, including any incompatibilities:

#### STORAGE

**Information about storage in one common storage facility:** No special measures required.

#### Further information about storage conditions:

Keep container tightly sealed.  
Protect from frost.  
Store in a dry place.  
Keep cool.

**7.3 Specific end use(s):** No further relevant information available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters:

#### Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

#### DNELs

#### 61788-44-1 Phenol, styrenated

Dermal	DNEL long term syst.	2.92 mg/kg bw/d (workers)
Inhalative	DNEL long term syst.	4.11 mg/m <sup>3</sup> (workers)

**Additional information:** Based on the lists valid at the date of SDS creation.

### 8.2 Exposure controls:

**Appropriate engineering controls** No further data; see item 7.

#### Individual protection measures, such as personal protective equipment

##### General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

##### Respiratory protection:

Control exposure to ingredients with workplace control parameters if mentioned above. If no ingredients are listed, respiratory protection is generally not required.

If exposure limits are listed and may be exceeded, use approved respiratory protective equipment and filter type appropriate for the listed ingredients. (NIOSH, CEN, etc.).

EN 143.

##### Hand protection

Protective gloves.

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EN 374.

**Material of gloves:** Rubber gloves.**Penetration time of glove material:**

The exact breakthrough time has to be determined by the manufacturer of the protective gloves and has to be observed.

**Eye/face protection**

Safety glasses with side shield protection.

EN 166.

**Body protection:**

Use personal protective equipment as required.

Take off contaminated clothing.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties:

#### GENERAL INFORMATION

Physical state	Liquid.
Colour:	Grey.
Odour:	Mild
Odour threshold:	Not determined.
Melting point/freezing point:	Undetermined.
Boiling point or initial boiling point and boiling range	>200 °C
Flammability	Not applicable.
Flammability Limits :	
Lower and upper explosion limit	
Lower:	Not determined.
Upper:	Not determined.
Flash point:	>150 °C
Method:	
Ignition temperature:	Not determined.
Decomposition temperature:	Not determined.
pH	Not determined.
VISCOSITY	
Kinematic viscosity	Not determined.
Dynamic:	Not determined.
Solubility	
Water:	Not miscible or difficult to mix.
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure:	Not determined.
Density and/or relative density	
Density at 20 °C:	1.4 g/cm <sup>3</sup>
Vapour density:	Not determined.
Particle characteristics	Not applicable.

### 9.2 Other information:

Appearance:	
Form:	Liquid.
Important information on protection of health and environment, and on safety:	
Auto-ignition temperature:	Not determined.
Explosive properties:	Product does not present an explosion hazard.
SOLVENT CONTENT	
VOC (EC):	5.00 %
Change in conditions:-	
Evaporation rate:	Not determined.
Molecular weight	Not determined.

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**Information with regard to physical hazard classes**

<b>Explosives</b>	Not applicable.
<b>Flammable gases</b>	Not classified.
<b>Aerosols</b>	Not classified.
<b>Oxidising gases</b>	Not classified.
<b>Gases under pressure</b>	Not classified.
<b>Flammable liquids</b>	Not classified.
<b>Flammable solids</b>	Not classified.
<b>Self-reactive substances and mixtures</b>	Not classified.
<b>Pyrophoric liquids</b>	Not classified.
<b>Pyrophoric solids</b>	Not classified.
<b>Self-heating substances and mixtures</b>	Not classified.
<b>Substances and mixtures, which emit flammable gases in contact with water</b>	Not classified.
<b>Oxidising liquids</b>	Not classified.
<b>Oxidising solids</b>	Not classified.
<b>Organic peroxides</b>	Not classified.
<b>Corrosive to metals</b>	Not classified.
<b>Desensitised explosives</b>	Not classified.

**SECTION 10: Stability and reactivity****10.1 Reactivity:** Amines, alkalines**10.2 Chemical stability:****Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.**10.3 Possibility of hazardous reactions**

No dangerous reactions known.

No further relevant information available.

**10.4 Conditions to avoid:** Protect from heat and direct sunlight.**10.5 Incompatible materials:** No further relevant information available.**10.6 Hazardous decomposition products:** Carbon monoxide and carbon dioxide**SECTION 11: Toxicological information****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

ACUTE TOXICITY Based on available data, the classification criteria are not met.

**LD/LC50 values relevant for classification:****1675-54-3 bis[4-(2,3-epoxypropoxy)phenyl]propane**

LC50, 96h | 1.5 mg/l (fish)

**25068-38-6 Reaction product: Bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)**

LC50, 96h | 220 mg/l (algae)

3.6 mg/l (bacterial)

2.4 mg/l (fish)

LC50, 48h | 2.8 mg/l (daphnia magna)

**Skin corrosion/irritation** Causes skin irritation.**Serious eye damage/irritation** Causes serious eye irritation.**Respiratory or skin sensitisation** May cause an allergic skin reaction.**Germ cell mutagenicity** Based on available data, the classification criteria are not met.**Carcinogenicity** Based on available data, the classification criteria are not met.**Reproductive toxicity** Based on available data, the classification criteria are not met.**STOT-single exposure** Based on available data, the classification criteria are not met.

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**STOT-repeated exposure** Based on available data, the classification criteria are not met.

**Aspiration hazard** Based on available data, the classification criteria are not met.

**11.2 Information on other hazards**

**Endocrine disrupting properties**

68512-30-1	Phenol, methylstyrenated	List II
61788-44-1	Phenol, styrenated	List II
556-67-2	octamethylcyclotetrasiloxane	List II, III

**SECTION 12: Ecological information**

**12.1 Toxicity:**

**AQUATIC TOXICITY** No further relevant information available.

**12.2 Persistence and degradability:** No further relevant information available.

**12.3 Bioaccumulative potential:** No further relevant information available.

**12.4 Mobility in soil:** No further relevant information available.

**12.5 Results of PBT and vPvB assessment:**

**PBT:** Not applicable.

**vPvB:** Not applicable.

**12.6 Endocrine disrupting properties** For information on endocrine disrupting properties see section 11.

**12.7 Other adverse effects:**

**Remark:** Toxic for fish

**ADDITIONAL ECOLOGICAL INFORMATION**

**General notes:**

Toxic for aquatic organisms.

Also poisonous for fish and plankton in water bodies.

**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods:**

**Recommendation:**



Must not be disposed together with household garbage. Do not allow product to reach sewage system.

**European waste catalogue:**

08 00 00	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
08 01 00	wastes from MFSU and removal of paint and varnish
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances

**UNCLEANED PACKAGING**

**Recommendation:** Disposal must be made according to official regulations.

**SECTION 14: Transport information**

**14.1 UN number or ID number**  
ADR, IMDG, IATA

UN3082

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**14.2 UN proper shipping name**  
ADR, IATA

IMDG

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S. (2,2'-[(1-METHYLETHYLIDENE)BIS(4,1-  
PHENYLENEOXYMETHYLENE)]BISOXIRANE)  
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S. (2,2'-[(1-METHYLETHYLIDENE)BIS(4,1-  
PHENYLENEOXYMETHYLENE)]BISOXIRANE), MARINE  
POLLUTANT

**14.3 Transport hazard class(es)**

ADR, IMDG, IATA



Class  
Label

9 Miscellaneous dangerous substances and articles.  
9

**14.4 Packing group**  
ADR, IMDG, IATA

III

**14.5 Environmental hazards:**

Marine pollutant:

Symbol (fish and tree)

Special marking (ADR):

Symbol (fish and tree)

Special marking (IATA):

Symbol (fish and tree)

**14.6 Special precautions for user:**

Hazard identification number (Kemler code):

Warning: Miscellaneous dangerous substances and articles.

EMS Number:

90

Stowage Category

F-A,S-F

A

**14.7 Maritime transport in bulk according to  
IMO instruments**

Not Regulated

**Transport/Additional information:**

ADR

Limited quantities (LQ)

5L

Excepted quantities (EQ)

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

Transport category

3

Tunnel restriction code

(-)

Remarks:

≤5L, ADR Special Provision 375.

IMDG

Limited quantities (LQ)

5L

Excepted quantities (EQ)

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

Remarks:

≤5L, IMDG 2.10.2.7

IATA

Remarks:

≤5L, IATA Special Provision 197.

**SECTION 15: Regulatory information**

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

See Section 2 for hazard identification.

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed.

Seveso category E2 Hazardous to the Aquatic Environment

Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t

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**Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t**  
**REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3

**DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

**REGULATION (EU) 2019/1148**

**Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

**Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

**Regulation (EC) No 273/2004 on drug precursors**

None of the ingredients is listed.

**Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

None of the ingredients is listed.

**15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**Relevant phrases:**

- 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.
- H412 Harmful to aquatic life with long lasting effects.
- EUH205 Contains epoxy constituents. May produce an allergic reaction.

**Department issuing SDS:**

Product Stewardship Department  
GCP Applied Technologies (UK) Limited  
487/488 Ipswich Road,  
Slough, Berkshire  
SL1 4EP

Tel: +44 (0)1753 490 000

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