

Material Safety Data Sheet

1 Identification of substance:

Product name: Merlin Barrier Coat Base

Manufacturer: Merlin Coatings Limited
Unit 7, Kirkhall Workshops
Bilbao Street
Bolton
Lancashire
United Kingdom
BL1 6 AN

Telephone: 0044 1204 940004

2 Composition/Information on components

Chemical type: Formulated Epoxy Compound Base

Hazardous Components

CAS: 55492-52-9 Bisphenol F Epoxy Resin	R 36/38-43-51/53	25-50%
CAS: 25068-38-6 Reaction product	R 36/38-43-51/53	50-100%
Alkyl (C12-C14)glycidylether	R 38-43	10-25%

3 Hazards Identified

Xi Irritant
N Dangerous for the environment

R36/38 Irritating to eyes and skin.

R43 May cause sensitisation by skin contact.

R51/53 Toxic to aquatic organisms may cause long term effects in aquatic environment.

4 First Aid Measures

Soiled clothing: Remove all soiled clothing immediately.
Skin contact: Wash with soap and water rinse well. If skin irritation continues consult doctor
Eye contact: Rinse with flowing water for several minutes, and consult doctor.
Swallowing: Seek immediate medical advice
Inhalation: Remove to open air.

Notes for doctor, no particular measures are known, treat according to symptoms.

5 Fire fighting

Suitable extinguishing agents:.

CO, powder or water jet. Large fires use water jet or alcohol resistant foam.

For safety reasons do not use water with full jet.

Special hazards caused by the material, its products of combustion or resulting gasses;

Formation of toxic gasses is possible during heating or combustion.

Protective equipment: Wear self contained breathing apparatus and protective suit.

6 Accidental release measures

Personal precautions:	Avoid contact with skin, eyes and clothing. Keep away from sources of ignition, do not smoke.
Environmental precautions;	Prevent material entering drains Do not contaminate surface water.
Methods for cleaning up:	Soak up with inert absorbent material and dispose of as hazardous waste.

7 Handling and storage

Handling: Information on safe handling	Keep containers sealed, handle open containers with care.
Storage:	Keep containers sealed, store away from food stuffs and animal feeds.
Storage temperature:	10 - 40 Celsius.

8 Exposure controls and personal protection

Special engineering measures:	None required.
Components with workroom control limit values.	None assigned.

Personal protective equipment:

General protective and hygiene measures:	Keep away from foodstuffs, beverages and food. Wash hands during breaks and at the end of work. Avoid contact with skin and eyes.
Breathing device: Recommended filter device:	Short term filter device Filter AX
Protection of hands: Type: Material type: For contact of less than 15 minutes: For splashes: Not suitable	Plastic gloves Chemical protective category III Nitrile rubber, Fluorocarbon rubber PVC gloves PVC gloves Leather or general purpose
Eye protection:	Tightly sealed safety glasses
Body protection.	Protective overalls Safety shoes

9 Physical and chemical properties.

General information:	
Form:	Liquid.
Colour:	Opaque/white.
Smell:	Characteristic.
Change in condition:	
Melting point:	not determined.
Boiling point:	> 200 Celsius.
Flash point:	> 100 Celsius
Self inflammability:	Product is not self igniting.
Danger of explosion:	Product is not explosive.
Density @ 23 Celsius:	1.14
Solubility/ miscibility in water:	
Viscosity:	200 mPas @ 25 Celsius
Solvent content:	Organic solvent 0.0%

10 Stability and reactivity

Thermal decomposition/ conditions to be avoided:	No decomposition if used correctly.
Materials to be avoided:	Strong oxidising agents.
Dangerous reactions:	Reacts with strong oxidising agents, alkali, amines and acids.
Dangerous products of decomposition:	None if stored or handled correctly.
In the event of fire:	Toxic gasses and vapours.

11 Toxicological information

Acute toxicity:
LD/ LC50 values:

25068-38-6 reaction product	Dermal LD50	> 2000 mg/kg (rabbit)
		> 2000 mg/kg (rat)
55492-52-9 Bisphenol F epoxy resin	Oral LD50	> 5000 mg/kg (rat)
Alkyl (C12-C14) glycidalether	Oral LD50	> 10000 mg/kg (rat)

Primary irritant effect:

On skin:	Irritant to skin and mucous membrane.
On eyes:	Irritant effect.
Sensitisation:	Sensitisation possible by skin contact.

Additional toxicological information:

The product shows the following dangers according to the calculation method of the general EC classification guidelines for preparations as issued in the latest version: Irritant.

12 Ecological information

Information about elimination (persistence and biodegradability):

Other information: The product is slightly biodegradable.

Ecotoxicological effects: Not determined.

Remark: Toxic for fish.

General notes:

Water hazard: Hazardous for water (self assessment).

Do not allow product to reach ground water, water bodies or sewage system.

Also poisonous for fish and plankton in water bodies. Toxic for aquatic organisms.

13 Disposal considerations

Recommendation:

For local disposal, local regulations issued by the authorities must be observed. Dispose of liquid components at suitable incineration plant. After curing, the product can be disposed of with general waste.

European waste catalogue:

08 00 00 Wastes from the manufacture, formulation, supply and use of coatings, adhesives, sealants and printing inks.

08 20 00 Wastes from MFSU of other coatings.

08 02 99 Waste not otherwise specified.

Unclean packaging:

Recommendation: disposal must be made according to official regulations.

14 Transport information

Land transport ADR/RID (cross border):

ADR/RID-GGVS/E Class: 9 Miscellaneous dangerous substances and articles.

Kemler Number: 90

UN Number: 3082

Packaging group: 111

Label: 9

Designation of goods: 3082 Environmentally hazardous substance, liquid, N.O.S. (reaction product, Bisphenol-F-epoxy resin).

Maritime transport IMDG:

IMDG class: 9

UN Number: 3082

Label: 9

EMS Number: F-A, S-F

Marine pollutant: No

Correct technical name: Environmentally hazardous substance, Liquid, N.O.S. (reaction product, Bisphenol-F-epoxy resin)

Air transport ICAO-TI and IATA-DGR:

ICAO/IATA: Class 9

UN/ID Number: 3082

Label: 9

Packing group: 111

Correct technical name: Environmentally hazardous substance, Liquid, N.O.S. (reaction product, Bisphenol-F-epoxy resin)

15 Regulatory information

Designation according to EC guidelines: the product has been classified and labelled in accordance with EC Directives/Ordinance on hazardous materials.

Code letter and hazard designation for the product: Xi Irritant
N Dangerous for the environment.

Hazard determining components of labelling: Reaction product
Bisphenol F Epoxy resin
Alkyl(C12-C14)glycidalether

Risk phrases:

- 36/38 Irritating to eyes and skin.
- 43 May cause sensitisation by skin contact.
- 51/53 Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.

Safety phrases:

- 24 Avoid contact with skin.
- 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- 28 After contact with skin, was immediately with plenty of soap and water.
- 37/39 Wear suitable gloves and eye/face protection.
- 57 Use appropriate container to avoid environmental contamination.
- 60 This material and its container must be disposed of as hazardous waste.

Special designation of certain preparations:

Contains epoxy constituents: see information provided by the manufacturer.

National regulations:.

Water hazard class: Water hazard class 2 (self assessment): hazardous to water.

16 Other information

These data are specifically based on our present knowledge. However they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contract or relationship.

Relevant R phrases:

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- 38 Irritating to skin.
- 43 May cause sensitisation by skin contact.
- 51/53 Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.

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