





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



- 1.1 Product identifier
- Trade name: White Waves
- 1.2 Relevant identified uses of the substance or mixture and uses advised against
- Sector of Use Artwork, Design, Crafts, Mould-making, Resin Casting, River Tables, Furniture Upcycling.
- Product category PC9a Pigment Coatings and paints.
- Process category PROC19 Manual activities involving hand contact.
- Environmental release category ERC5 Use at industrial site leading to inclusion into/onto article  
ERC8c Widespread use leading to inclusion into/onto article (indoor)  
ERC8f Widespread use leading to inclusion into/onto article (outdoor)
- Article category AC13 Plastic articles
- Application of the substance Epoxy Colourant  
Resin Pigment  
Resin Colourant  
Dyestuff  
Colouring agent
- 1.3 Details of the supplier of the safety data sheet
- Supplier: Tides of Teal, 82 Mantle Street, Wellington, TA21 8AU (UK)  
hello@tidesofteal.com www.tidesofteal.com
- Further information obtainable from: Eli-Chem Resins (UK) Ltd
- 1.4 Emergency telephone number: +44 (0) 1483 266636 (office hours only)  
Office hours Mon-Thurs 09:00 to 17:00 hrs Fri 09:00 to 16:00hrs

## SECTION 2: Hazards identification

- 2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008
-  GHS09 environment  
Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.
-  GHS07  
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.






- 2.2 Label elements
- Labelling according to Regulation (EC) No 1272/2008
- Hazard pictograms
  - The product is classified and labelled according to the CLP regulation.
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  - GHS07 GHS09
- Signal word Warning
- Hazard-determining components of labelling: bis[4-(2,3-epoxypropoxy)phenyl]propane  
1,6-bis(2,3-epoxypropoxy)hexane  
reaction product: bisphenol-F-(epichlorhydrin) epoxy resin (number average molecular weight 700)
- 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 mist/vapours/spray.  
P273 Avoid release to the environment.  
P280 Wear protective gloves / eye protection / face protection.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.  
Remove contact lenses, if present and easy to do. Continue rinsing.  
(Contd. on page 2)

Trade Name: White Waves

- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- Labelling of packages where the contents do not exceed 125 ml
- Hazard pictograms  
- GHS07 GHS09
- Signal word Warning
- Hazard-determining components of labelling: bis[4-(2,3-epoxypropoxy)phenyl]propane  
1,6-bis(2,3-epoxypropoxy)hexane  
reaction product: bisphenol-F-(epichlorhydrin) epoxy resin (number average molecular weight 700)
- Hazard statements H317 May cause an allergic skin reaction.
- Precautionary statements P261 Avoid breathing mist/vapours/spray.  
P280 Wear protective gloves.  
P302+P352 IF ON SKIN: Wash with plenty of water.  
P362+P364 Take off contaminated clothing and wash it before reuse.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- 2.3 Other hazards
- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.

### SECTION 3: Composition/information on ingredients

- 3.2 Chemical characterisation: Mixtures
- Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:		
CAS: 1675-54-3 EINECS: 216-823-5 Index number: 603-073-00-2 Reg.nr.: 01-2119456619-26	bis[4-(2,3-epoxypropoxy)phenyl]propane  Aquatic Chronic 2, H411;  Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	25 – 50%
CAS: 933999-84-9 EC number: 618-939-5 Reg.nr.: 01-2119463471-41	1,6-bis(2,3-epoxypropoxy)hexane  Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; Aquatic Chronic 3, H412	2.5 – 10%
CAS: 9003-36-5 NLP: 500-006-8 Reg.nr.: 01-2119454392-40	reaction product: bisphenol-F-(epichlorhydrin) epoxy resin (number average molecular weight 700)  Aquatic Chronic 2, H411;  Skin Irrit. 2, H315; Skin Sens. 1, H317	2.5 – 10%

- Additional information: For the wording of the listed hazard phrases refer to section 16.

### SECTION 4: First aid measures

- 4.1 Description of first aid measures
- General information: Immediately remove any clothing soiled by the product.
- After inhalation: Supply fresh air and to be sure call for a doctor.  
In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing: If symptoms persist consult doctor.
- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available.

(Contd. on page 3)

Trade Name: White Waves

## SECTION 5: Firefighting measures

- 5.1 Extinguishing media
- Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- 5.2 Special hazards arising from the substance or mixture: No further relevant information available.
- 5.3 Advice for firefighters
- Protective equipment: No special measures required.

## SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures: Not required.
- 6.2 Environmental precautions: Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.
- 6.4 Reference to other sections: See Section 7 for information on safe handling. 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: Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.
- Information about fire - and explosion protection: No special measures required.
- 7.2 Conditions for safe storage, including any incompatibilities
- Storage:
  - Requirements to be met by storerooms and receptacles: No special requirements.
  - Information about storage in one common storage facility: Not required.
  - Further information about storage conditions: Keep container tightly sealed.
  - Recommended storage temperature: +5 – +30C
- 7.3 Specific end use(s): No further relevant information available.

## SECTION 8: Exposure controls/personal protection

- Additional information about design of technical facilities: No further data; see item 7.
- 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.

· DNEL (Derived No Effect Level) for workers		
933999-84-9 1,6-bis(2,3-epoxypropoxy)hexane		
Dermal	Long-term - systemic effects, worker	2.8 mg/kg bw/day (Worker)
	Long term - local effects, worker	22.6 µg/cm <sup>2</sup> (Worker)
Inhalative	Long-term - systemic effects, worker	4.9 mg/m <sup>3</sup> (Worker)
	Long-term - local effects, worker	0.44 mg/m <sup>3</sup> (Worker)

Trade Name: White Waves

9003-36-5 reaction product: bisphenol-F-(epichlorhydrin) epoxy resin (number average molecular weight 700)		
Dermal	Acute - local effects, worker	8.3 µg/cm <sup>2</sup> (Worker)
	Long-term - systemic effects, worker	104.15 mg/kg bw/day (Worker)
Inhalative	Long-term - systemic effects, worker	29.39 mg/m <sup>3</sup> (Worker)
· DNEL (Derived No Effect Level) for the general population		
933999-84-9 1,6-bis(2,3-epoxypropoxy)hexane		
Oral	Acute - systemic effects, general population	0.83 mg/kg bw/day (General population)
	Long-term - systemic effects, general population	0.83 mg/kg bw/day (General population)
Dermal	Acute - systemic effects, general population	1.7 mg/kg bw/day (General population)
	Acute - local effects, general population	13.6 µg/cm <sup>2</sup> (General population)
Inhalative	Long-term - systemic effects, general population	1.7 mg/kg bw/day (General population)
	Long-term - local effects, general population	13.6 µg/cm <sup>2</sup> (General population)
Inhalative	Acute - systemic effects, general population	2.9 mg/m <sup>3</sup> (General population)
	Long-term - systemic effects, general population	2.9 mg/m <sup>3</sup> (General population)
	Long-term - local effects, general population	0.27 mg/m <sup>3</sup> (General population)
9003-36-5 reaction product: bisphenol-F-(epichlorhydrin) epoxy resin (number average molecular weight 700)		
Oral	Long-term - systemic effects, general population	6.25 mg/kg bw/day (General population)
Dermal	Long-term - systemic effects, general population	62.5 mg/kg bw/day (General population)
Inhalative	Long-term - systemic effects, general population	8.7 mg/m <sup>3</sup> (General population)
· PNEC (Predicted No Effect Concentration) values		
933999-84-9 1,6-bis(2,3-epoxypropoxy)hexane		
Aquatic compartment - freshwater		0.0115 mg/l (Freshwater)
Aquatic compartment - marine water		0.0015 mg/l (Marine water)
Aquatic compartment - water, intermittent releases		0.115 mg/l (Intermittent release water) Aquatic
compartment - sediment in freshwater		0.283 mg/kg sed dw (Sediment freshwater) Aquatic
compartment - sediment in marine water		0.283 mg/kg sed dw (Sediment marine water)
9003-36-5 reaction product: bisphenol-F-(epichlorhydrin) epoxy resin (number average molecular weight 700)		
Aquatic compartment - freshwater		0.003 mg/l (Freshwater)
Aquatic compartment - marine water		0.0003 mg/l (Marine water)
Aquatic compartment - water, intermittent releases		0.0254 mg/l (Intermittent release water) Aquatic
compartment - sediment in freshwater		0.294 mg/kg sed dw (Sediment freshwater) Aquatic
compartment - sediment in marine water		0.0294 mg/kg sed dw (Sediment marine water)
Terrestrial compartment - soil		0.237 mg/kg dw (Soil)

- Additional information: The lists valid during the making were used as basis.
- 8.2 Exposure controls
- Personal protective equipment:
- General protective and hygienic measures:
  - Keep away from foodstuffs, beverages and feed.
  - Immediately remove all soiled and contaminated clothing
  - Wash hands before breaks and at the end of work.
  - Avoid contact with the eyes and skin.
- Respiratory protection: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
- Protection of hands:
  - Protective gloves
  - The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
  - Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
  - Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- Material of gloves:
  - Nitrile rubber, NBR
  - The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.
  - Recommended thickness of the material: 0.3 mm

(Contd. on page 5)

Trade Name: White Waves

- Penetration time of glove material The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.  
For the mixture of chemicals mentioned below the penetration time has to be at least 480 minutes (Permeation according to EN 374 Part 3: Level 6).
- For the permanent contact gloves made of the following materials are suitable: Nitrile rubber, NBR
- As protection from splashes gloves made of the following materials are suitable: Nitrile rubber, NBR
- Not suitable are gloves made of the following materials: Leather gloves  
Strong material gloves
- Eye protection: Tightly sealed goggles

## SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties	
· General Information	
· Appearance:	
Form:	Fluid
Colour:	According to product specification
· Odour:	Characteristic
· Odour threshold:	Not determined.
· pH-value:	Not determined.
· Change in condition	
Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	Undetermined.
· Flash point:	> 150 °C (Pensky Martens, ASTM D93)
· Flammability (solid, gas):	Not applicable.
· Decomposition temperature:	Not determined.
· Auto-ignition temperature:	Product is not self-igniting.
· Explosive properties:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapour pressure:	Not determined.
· Density at 20 °C:	1.766 g/cm <sup>3</sup> (DIN 51757, ASTM D 1298)
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with water:	Not miscible or difficult to mix.
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
VOC (2004/42/EC):	0.00 %
Solids content:	100.0 %
· 9.2 Other information	No further relevant information available.

## SECTION 10: Stability and reactivity

- 10.1 Reactivity No further relevant information available.

(Contd. on page 6)

Trade Name: White Waves

- 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.
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: No dangerous decomposition products known.

## SECTION 11: Toxicological information

- 11.1 Information on toxicological effects
- Acute toxicity Based on available data, the classification criteria are not met.
- LD/LC50 values relevant for classification:

Components	Type	Value	Species
933999-84-9 1,6-bis(2,3-epoxypropoxy)hexane			
Oral	LD50	2,900 mg/kg	(Rat)
Dermal	LD50	> 4,900 mg/kg	(Rat)
9003-36-5 reaction product: bisphenol-F-(epichlorhydrin) epoxy resin (number average molecular weight 700)			
Oral	LD50	23,800 mg/kg	(Rat)
Dermal	LD50	> 2,000 mg/kg	(Rabbit)

- Primary irritant effect:
- Skin corrosion/irritation Causes skin irritation.
- Serious eye damage/irritation Causes serious eye irritation.
- Respiratory or skin sensitisation May cause an allergic skin reaction.
- CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)
- 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.
- 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.

## 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.
- Ecotoxicological effects:
- Remark: Toxic for fish
- Additional ecological information:
- General notes: Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water  
Do not allow product to reach ground water, water course or sewage system.  
Danger to drinking water if even small quantities leak into the ground.  
Also poisonous for fish and plankton in water bodies.  
Toxic for aquatic organisms
- 12.5 Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.
- 12.6 Other adverse effects No further relevant information available.

## 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.

(Contd. on page 7)

Trade Name: White Waves

· 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 99	wastes not otherwise specified
HP 4	Irritant - skin irritation and eye damage
HP 13	Sensitising
HP 14	Ecotoxic

- Uncleaned packaging:
- Recommendation:

Disposal must be made according to official regulations.

## SECTION 14: Transport information

· 14.1 UN-Number · ADR/RID/ADN, IMDG, IATA	UN3082
· 14.2 UN proper shipping name · ADR/RID/ADN  · IMDG  · IATA	3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight 700), reaction product: bisphenol-F-(epichlorhydrin) epoxy resin (number average molecular weight 700)) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight 700), reaction product: bisphenol-F-(epichlorhydrin) epoxy resin (number average molecular weight 700)), MARINE POLLUTANT ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight 700), reaction product: bisphenol-F-(epichlorhydrin) epoxy resin (number average molecular weight 700))
14.3 Transport hazard class(es) · ADR/RID/ADN · Class · Label	9 (M6) Miscellaneous dangerous substances and articles. 9
· IMDG, IATA · Class · Label	9 Miscellaneous dangerous substances and articles. 9
· 14.4 Packing group · ADR/RID/ADN, IMDG, IATA	III
14.5 Environmental hazards: Product contains environmentally hazardous substances: · Marine pollutant: · Special marking (ADR/RID/ADN): Special marking (IATA):	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight 700) Yes Symbol (fish and tree) Symbol (fish and tree) Symbol (fish and tree)
· 14.6 Special precautions for user · Danger code (Kemler): · EMS Number: · Stowage Category	Warning: Miscellaneous dangerous substances and articles. 90 F-A,S-F A
· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.

Trade Name: White Waves

· Transport/Additional information:	
· ADR/RID/ADN	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 100ml Maximum net quantity per outer packaging: 5000 ml
· Transport category	3
· IMDG	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 100 ml Maximum net quantity per outer packaging: 5000 ml
· Remarks:	In packaging up to 30 litres exempt according to IMDG 2.3.2.5.
· UN "Model Regulation":	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (REACTION PRODUCT: BISPHENOL-A-(EPICHLORHYDRIN) EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT 700), REACTION PRODUCT: BISPHENOL-F-(EPICHLORHYDRIN) EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT 700)), 9, III

## SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
  - Directive 2012/18/EU
  - Named dangerous substances - ANNEX I
  - Seveso category
  - Qualifying quantity (tonnes) for the application of lower-tier requirements
  - Qualifying quantity (tonnes) for the application of upper-tier requirements
  - REGULATION (EC) No 1907/2006 ANNEX XVII
  - 15.2 Chemical safety assessment:
- |  |
|--|
| None of the ingredients is listed.                     |
| E2 Hazardous to the Aquatic Environment                |
| 200 t  |
| 500 t  |
| Conditions of restriction: 3                           |
| 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
  - Classification according to Regulation (EC) No 1272/2008
  - Department issuing SDS:
  - Abbreviations and acronyms:
- |   |
|---|
| 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.   |
| The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.                                      |
| Research and Development  |
| RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) |
| ICAO: International Civil Aviation Organisation   |
| ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)                  |
| IMDG: International Maritime Code for Dangerous Goods   |
| IATA: International Air Transport Association   |
| GHS: Globally Harmonised System of Classification and Labelling of Chemicals  |
| EINECS: European Inventory of Existing Commercial Chemical Substances   |
| ELINCS: European List of Notified Chemical Substances   |
| CAS: Chemical Abstracts Service (division of the American Chemical Society)   |
| VOC: Volatile Organic Compounds (USA, EU)   |
| DNEL: Derived No-Effect Level (REACH)   |

(Contd. on page 9)



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Trade Name: White Waves

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PNEC: Predicted No-Effect Concentration (REACH)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
Skin Irrit. 2: Skin corrosion/irritation – Category 2  
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2  
Skin Sens. 1: Skin sensitisation – Category 1  
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2  
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3  
Literature data and/or investigation reports are available through the manufacturer.

- Sources:
  - \* Data compared to the previous version altered.
-