

Version number 1 Revision: 15.01.2019

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

· 1.1 Product identifier

· Trade name: Resi-Tint MAX

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

Artwork, Design, Crafts, Mould-making, Resin Casting, River Tables, Furniture · Sector of Use

Upcycling.

PC9a Pigment Coatings and paints. Product category

· 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

Eli-Chem Resins (UK) Ltd, 212 Dunsfold Park, Stovolds Hill, Cranleigh, GU6 8GA (UK) · Supplier:

sales@elichem.co.uk www.elichem.co.uk

· Further information obtainable

from:

Research and Development.

· 1.4 Emergency telephone

+44 (0) 1483 266636 (office hours only) number:

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.



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

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

Hazard pictograms

(<u>\*</u> **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)

H315 Causes skin irritation. Hazard statements

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)



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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

 $\langle ! \rangle$ (對) **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 · Precautionary statements H317 May cause an allergic skin reaction. 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.

Dispose of contents/container in accordance with local/regional/national/ P501

international regulations.

· 2.3 Other hazards

· Results of PBT and vPvB assessment

· PBT: Not applicable. Not applicable. · vPvB:

#### SECTION 3: Composition/information on ingredients

· 3.2 Chemical characterisation: Mixtures

Mixture of substances listed below with nonhazardous additions. · Description:

· 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

· 4.3 Indication of any immediate medical attention and special

treatment needed No further relevant information available.

No further relevant information available.

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#### SECTION 5: Firefighting measures

· 5.1 Extinguishing media

· Suitable extinguishing agents:

· 5.2 Special hazards arising from

the substance or mixture · 5.3 Advice for firefighters

· Protective equipment:

Use fire extinguishing methods suitable to surrounding conditions.

No further relevant information available.

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:

· Information about storage in one

common storage facility

conditions:

Further information about storage

· Recommended storage

temperature:

No special requirements.

Not required.

Keep container tightly sealed.

+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		
	Long-term - systemic effects, worker	
	Long term - local effects, worker	22.6 μg/cm² (Worker)
Inhalative	Long-term - systemic effects, worker	4.9 mg/m³ (Worker)
	Long-term - local effects, worker	0.44 mg/m³ (Worker)



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9003-36-5	9003-36-5 reaction product: bisphenol-F-(epichlorhydrin) epoxy resin (number average molecular weight 700)			
Dermal	I Acute - local effects,worker 8.3 μg/cm² (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>	<sup>3</sup> (Worker)	
· DNEL (De	DNEL (Derived No Effect Level) for the general population			
933999-84	933999-84-9 1,6-bis(2,3-epoxypropoxy)hexane			
Oral	Acute - systemic effects, general populat	tion	0.83 mg/kg bw/day (General population)	
	Long-term - systemic effects, general por	pulation	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/cm² (General population)	
	Long-term - systemic effects, general po	pulation	1.7 mg/kg bw/day (General population)	
	Long-term - local effects, general popula	tion	13.6 µg/cm² (General population)	
Inhalative	Acute - systemic effects, general popula	ition	2.9 mg/m³ (General population)	
	Long-term - systemic effects, general po	-	2.9 mg/m³ (General population)	
	Long-term - local effects, general popula	tion	0.27 mg/m³ (General population)	
			xy resin (number average molecular weight 700)	
Oral		-	6.25 mg/kg bw/day (General population)	
Dermal		-	62.5 mg/kg bw/day (General population)	
Inhalative Long-term - systemic effects, general population 8.7 mg/m³ (General population)				
· PNEC (Pre	edicted No Effect Concentration) values			
933999-84	1-9 1,6-bis(2,3-epoxypropoxy)hexane			
Aquatic compartment - freshwater 0.0115 mg/l (Freshwater			,	
Aquatic compartment - marine water 0.0			ng/I (Marine water)	
Aquatic co	impartment - water, intermittent releases	_		
		~ ~	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)				
· · · · · · · · · · · · · · · · · · ·			g/I (Freshwater)	
1	Aquatic compartment - marine water 0.0003 mg/l (Marine water)			
1	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.

In case of brief exposure or low pollution use respiratory filter device. In case of · Respiratory protection: 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

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· 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:

· As protection from splashes gloves made of the following materials are suitable:

Not suitable are gloves made of the following materials:

· Eye protection:

Nitrile rubber, NBR

Nitrile rubber, NBR

Leather gloves

Strong material gloves 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 Characteristic

· Odour: · Odour threshold:

Not determined.

· pH-value:

Not determined.

· Change in condition

Melting point/freezing point: Initial boiling point and boiling range:

Undetermined. **Undetermined** 

· Flash point:

> 150 °C (Pensky Martens, ASTM D93)

· Flammability (solid, gas):

Not applicable.

· Decomposition temperature:

· Auto-ignition temperature:

Not determined. Product is not self-igniting.

· Explosive properties:

Product does not present an explosion hazard.

· Explosion limits:

Lower: Upper: Not determined. Not determined.

· Vapour pressure:

Not determined

 Density at 20 °C: Relative density

1.766 g/cm3 (DIN 51757, ASTM D 1298) Not determined.

Vapour density

Not determined. Not determined.

· Evaporation rate

· Solubility in / Miscibility with

Not miscible or difficult to mix.

· Partition coefficient: n-octanol/water:

· Viscosity:

Dynamic:

Kinematic:

Not determined. Not determined.

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.

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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
 10.5 Incompatible materials:
 No further relevant information available.
 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:

· Compor	nents	Type	Value	Species
933999-	933999-84-9 1,6-bis(2,3-epoxypropoxy)hexane			
Oral	LD50	2,900 mg/kg (Rat)		
Dermal	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
 Serious eye damage/irritation
 Respiratory or skin sensitisation
 Causes skin irritation.
 Causes serious eye irritation.
 May cause an allergic skin reaction.

CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
Germ cell mutagenicity
Carcinogenicity
Based on available data, the classification criteria are not met.
Reproductive toxicity
STOT-single exposure
STOT-repeated exposure
Aspiration hazard
Based on available data, the classification criteria are not met.
Based on available data, the classification criteria are not met.
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# **SECTION 12: Ecological information**

· 12.1 Toxicity

Aquatic toxicity: No further relevant information available.

· 12.2 Persistence and

Degradability
12.3 Bioaccumulative potential
12.4 Mobility in soil
Ecotoxical effects:

No further relevant information available.
No further relevant information available.

· 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.∨P∨B: 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.

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· 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.

OF OTTON AA T	
SECTION 14: Transport information	
· 14.1 UN-Number · ADR/RID/ADN, IMDG, IATA	UN3082
14.2 UN proper shipping name     ADR/RID/ADN	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
· IMDG	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
- IATA	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.
· IMDG, IATA · Class · Label	9 Miscellaneous dangerous substances and articles.
· 14.4 Packing group · ADR/RID/ADN, IMDG, IATA	III
14.5 Environmental hazards:	
Product contains environmentally hazardous substances:	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight 700)
Marine pollutant:	Yes Symbol (fish and tree)
Special marking (ADR/RID/ADN):     Special marking (IATA):	Symbol (fish and tree) Symbol (fish and tree)
<ul><li>14.6 Special precautions for user</li><li>Danger code (Kemler):</li><li>EMS Number:</li><li>Stowage Category</li></ul>	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.



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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
	TWEITHOLE MOLECOLAR WEIGHT 100//, 0, III

#### **SECTION 15: Regulatory information**

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

200 t

500 t

· Directive 2012/18/EU

· Seveso category

Named dangerous substances -

ANNEX I

E2 Hazardous to the Aquatic Environment

None of the ingredients is listed.

· 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:

Conditions of restriction: 3

#### **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.

A Chemical Safety Assessment has not been carried out.

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.

· Classification according to

Regulation (EC) No 1272/2008

The classification of the mixture is generally based on the calculation method using

substance data according to Regulation (EC) No 1272/2008.

· Department issuing SDS:

· Abbreviations and acronyms:

Research and Development

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer

(Regulations Concerning the International Creaman et aliasport des machanides dangereuses par chemin de le (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)

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

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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 3
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3
Literature data and/or investigation reports are available through the manufa

Literature data and/or investigation reports are available through the manufacturer.

· Sources:

\* Data compared to the previous version altered.