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

1.1 Product identifier

### Trade name: Castropox 4307

- 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
- · Application of the substance / the mixture Epoxy binder
- 1.3 Details of the supplier of the safety data sheet
- Manufacturer/Supplier:
  Polígono Industrial A Granxa

C/ Cíes 190, 36400 O Porriño, Pontevedra

Tlf.: +0034 986 34 29 53 info@castrocomposites.com www.castrocomposites.com

• 1.4 Emergency telephone number: Instituto Nacional de Toxicologia, Madrid - 24h - Emergency Call: +34 156 20420

#### 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 CLP regulation.

Hazard pictograms





GHS07 GHS09

· Signal word Warning

Hazard-determining components of labelling:

bis[4-(2,3-epoxypropoxy)phenyl]propane

Bisphenol F- Epoxyresin

oxirane, mono[(C12-14-alkyloxy)methyl] derivs

· 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.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

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.

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- · 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: Epoxy resin formulation with a bisphenol-A liquid resin base

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	50-100%
CAS: 9003-36-5 NLP: 500-006-8 Reg.nr.: 01-2119454392-40-xxxx	Bisphenol F- Epoxyresin Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Skin Sens. 1, H317	25-50%
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	10-25%

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 Instantly remove any clothing soiled by the product.
- After inhalation

Take affected persons into the open air and position comfortably

Seek medical treatment in case of complaints.

After skin contact

Instantly wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

- · After eye contact Rinse opened eye for several minutes under running water. Then consult doctor.
- After swallowing Seek immediate medical advice.
- 4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

- · Information for doctor No particular measures are known treat according to symptoms.
- 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

CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

- · For safety reasons unsuitable extinguishing agents Water with a full water jet.
- 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: Put on breathing apparatus.
- Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

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#### SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Wear protective clothing.
- 6.2 Environmental precautions:

Do not allow to enter the ground/soil.

Inform respective authorities in case product reaches water or sewage system.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose of contaminated material as waste according to item 13.

Ensure adequate ventilation.

6.4 Reference to other sections Clean the accident area carefully.

#### SECTION 7: Handling and storage

7.1 Precautions for safe handling

The usual precautionary measures for handling chemicals must be observed.

Ensure good ventilation/exhaustion at the workplace.

- Information about protection against explosions and fires: No special measures required.
- · 7.2 Conditions for safe storage, including any incompatibilities
- Storage
- Requirements to be met by storerooms and containers:

Store only in unopened original containers.

Keep containers securely closed and dry, store frost-free.

Provide floor trough without outlet.

- Information about storage in one common storage facility: Store away from foodstuffs.
- · Further information about storage conditions: Keep container tightly sealed.
- · 7.3 Specific end use(s) No further relevant information available.

#### SECTION 8: Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · 8.1 Control parameters
- Components 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.

momorca	at the workplace	··	
DNELs			
1675-54-3	bis[4-(2,3-epo)	ypropoxy)phe	enyl]propane
Dermal	DNEL - worker	8.33 mg/kg / b	w/d
Inhalative	DNEL - worker	12.25 mg/m³	
9003-36-5	Bisphenol F- E	poxyresin	
Dermal	DNEL - worker	104.15 mg/kg	/ bw/d
Inhalative	DNEL - worker	29.39 mg/m³	
68609-97-	2 oxirane, mon	o[(C12-14-alky	vloxy)methyl] derivs
Dermal	DNEL - worker	1 mg/kg / bw/d	
Inhalative	DNEL - worker	3.6 mg/m³	
PNECs			
1675-54-3	bis[4-(2,3-epo)	ypropoxy)phe	enyl]propane
PNEC (pre	edicted no effect	concentration)	0.006 mg/l (Frischwasser (freshwater))
			0.0006 mg/l (Meerwasser (seawater))
9003-36-5	Bisphenol F- E	poxyresin	1
PNEC (pre	edicted no effect	concentration)	0.003 mg/l (Frischwasser (freshwater))

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0.0003 mg/l (Meerwasser (seawater))

#### 68609-97-2 oxirane, mono[(C12-14-alkyloxy)methyl] derivs

PNEC (predicted no effect concentration) 0.0072 mg/l (Frischwasser (freshwater))

0.00072 mg/l (Meerwasser (seawater))

- · Additional information: The lists that were valid during the compilation were used as basis.
- · 8.2 Exposure controls
- Personal protective equipment
- General protective and hygienic measures

Keep away from foodstuffs, beverages and food.

Take off immediately all contaminated clothing

Wash hands during breaks and at the end of the work.

Avoid contact with the eyes and skin.

- · Breathing equipment: Use breathing protection in case of insufficient ventilation.
- Protection of hands:



Plastic gloves

Only use chemical-protective gloves with CE-labelling of category III.

To minimise the wetness in the glove due to perspiration changing of gloves during a shift is required.

Check the permeability prior to each anewed use of the glove.

Preventive skin protection by use of skin-protecting agents is recommended.

Material of gloves

Nitrile rubber, NBR

Fluorocarbon rubber (Viton)

Recommended thickness of the material: ≥ 0.5 mm

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 can not be calculated in advance and has therefore to be checked prior to the application.

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.

- · As protection from splashes gloves made of the following materials are suitable: PVC gloves
- Not suitable are gloves made of the following materials:

Leather gloves Strong gloves

Eye protection:



Tightly sealed safety glasses.

Body protection: Protective work clothing.

#### SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties
- · General Information
- · Appearance:

Form: Liquid
Colour: Yellowish
Odour: Characteristic

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Change in condition  Melting point/freezing point:  Initial boiling point and boiling range:	Not determined > > 200 °C	
Flash point:	> 100 °C	
Self-inflammability:	Product is not selfigniting.	
Explosive properties:	Product is not explosive.	
Density at 23 °C	1.12 g/cm³ (ISO 2811-2)	
Solubility in / Miscibility with Water:	Not miscible or difficult to mix	
Viscosity: dynamic at 25 °C: kinematic: 9.2 Other information	700 mPas (ISO 3219) Not determined. No further relevant information available.	

### SECTION 10: Stability and reactivity

- 10.1 Reactivity No further relevant information available.
- 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: strong oxidizing agents
- 10.6 Hazardous decomposition products:

none, if stored and handled correctly.

in the event of fire: toxic gases and vapours

#### **SECTION 11: Toxicological information**

- 11.1 Information on toxicological effects
- · Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC5	· LD/LC50 values that are relevant for classification:		
1675-54	1675-54-3 bis[4-(2,3-epoxypropoxy)phenyl]propane		
Oral	LD50	15,000 mg/kg (rat)	
Dermal	LD50	23,000 mg/kg (rab)	
9003-36	6-5 Bis	phenol F- Epoxyresin	
Oral	LD50	>2,000 mg/kg (rat)	
Dermal	LD50	>2,000 mg/kg (rat)	
68609-9	68609-97-2 oxirane, mono[(C12-14-alkyloxy)methyl] derivs		
Oral	LD50	>5,000 mg/kg (rat)	
Dermal	LD50	>4,500 mg/kg (rab)	



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- · CMR effects (carcinogenity, 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

12.1 Toxicity	
· Aquatic toxicity:	
1675-54-3 bis[4-(2,3-epoxypropoxy	y)phenyl]propane
Bakterientoxizität (Bacteria toxicity)	100 mg/l (Pseudomonas putida)
Daphnientoxizität (Daphnia toxicity)	1.8 mg/l (Daphnia magna (Wasserfloh)) (EC50(48h))
Algentoxizität (Algae toxicity)	11 mg/l (Scenedesmus capricornutum) (EC50(72h))
Fischtoxizität (Fish toxicity)	2 mg/l (Oncorhynchus mykiss (Regenbogenforelle)) (LC50(96h))
9003-36-5 Bisphenol F- Epoxyresi	n e e e e e e e e e e e e e e e e e e e
Daphnientoxizität (Daphnia toxicity)	2.55 mg/l (Daphnia magna (Wasserfloh)) (LC50(48h))
Algentoxizität (Algae toxicity)	1.8 mg/l (Scenedesmus capricornutum) (LC50(72))
Fischtoxizität (Fish toxicity)	2.54 mg/l (Leuciscus idus) (EC50(96h))
68609-97-2 oxirane, mono[(C12-14	-alkyloxy)methyl] derivs
Bakterien-Toxizität (Bacteria toxicity)	>100 mg/l (Belebtschlamm (activated sludge)) (EC50)
Daphnientoxizität (Daphnia toxicity)	7.2 mg/l (Daphnia magna (Wasserfloh)) (EC50(48h))
Algentoxizität (Algae toxicity)	844 mg/l (EC50(72h))
Fischtoxizität (Fish toxicity)	>5,000 mg/l (Oncorhynchus mykiss (Regenbogenforelle)) (LC50(96h))

- 12.2 Persistence and degradability No further relevant information available.
- · Other information: The product is slightly biodegradable.
- · 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- · Ecotoxical effects: Not determined
- 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 bodies or sewage system.

Danger to drinking water if even small quantities leak into soil.

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

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

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· Europea	n 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 02 00	wastes from MFSU of other coatings (including ceramic materials)
08 02 99	wastes not otherwise specified

- · Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.

14.1 UN-Number ADR/RID/ADN, IMDG, IATA	UN3082
14.2 UN proper shipping name ADR/RID/ADN	3082 ENVIRONMENTALLY HAZARDO SUBSTANCE, LIQUID, N.O.S. (epoxy resin)
IMDG	ENVIRONMENTALLYHAZARDO SUBSTANCE, LIQUID, N.O.S. (epoxy re: MARINE POLLUTANT
IATA	E N V I R O N M E N T A L L Y H A Z A R D O SUBSTANCE, LIQUID, N.O.S. (epoxy resin)
14.3 Transport hazard class(es)	
ADR/RID/ADN	
Class	9 (M6) Miscellaneous dangerous substances ar articles.
Label IMDG, IATA	9
Class	9 Miscellaneous dangerous substances and articles. 9
14.4 Packing group	<del>-</del>
ADR/RID/ADN, IMDG, IATA	III
14.5 Environmental hazards:	Product contains environmentally hazardous substances: epoxy resin, Bisphenol F- Epoxyres
Marine pollutant:	Yes Symbol (fish and tree)
Special marking (ADR/RID/ADN): Special marking (IATA):	Symbol (fish and tree) Symbol (fish and tree)
14.6 Special precautions for user	Warning: Miscellaneous dangerous substances and articles.
Kemler Number:	90
EMS Number:	F-A,S-F

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aging: 30 ml
kaging: 1000
5 5
aging: 30 ml
kaging: 1000
HAZARDOU
XY RESIN),
AT KEOIN),

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

VOC	- EU (Decopaint-Directive 2004/42/EC)
0.0	g/l

- · Water hazard class: Water hazard class 2 (Self-assessment): hazardous forwater.
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### **SECTION 16: Other information**

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. Changes made since last issue dated 08.02.2017 at the following points: \*

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.

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· Abbreviations and acronyms:

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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)

DNEL: Derived No-Effect Level (REACH)

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

\* Data compared to the previous version altered.

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