according to Regulation (EC) No. 1907/2006

Commercial Product Name: ALEXSEAL P2094-Fairing Compound 202 Product no.: 1541498033000



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## 1. Identification of the substance/mixture and of the company/undertaking

#### **1.1 Product identifier**

Trade name

: ALEXSEAL P2094-Fairing Compound 202 9803 White

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

Use of the	: Industrial serial painting
Substance/Mixture	

#### 1.3 Details of the supplier of the safety data sheet

Company	: Mankiewicz Gebr. & Co.
	(GmbH & Co. KG)
	Georg-Wilhelm-Straße 189
	21107 Hamburg
Telephone	: +4940751030
Telefax	: +494075103375
E-mail address	: sdb_info@umco.de

#### 1.4 Emergency telephone number

+49 (0) 551 / 19240 (Toxic agent information centre North / NORD)

## 2. Hazards identification

#### 2.1 Classification of the substance or mixture

#### Classification (67/548/EEC, 1999/45/EC)

Sensitising Irritant Dangerous for the environment R43: May cause sensitization by skin contact. R36/38: Irritating to eyes and skin. R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

#### 2.2 Label elements

#### Labelling according to EC Directives (1999/45/EC)

Hazard pictograms



R-phrase(s)	: R36/38	Irritating to eyes and skin.
	R43	May cause sensitization by skin contact.
	R51/53	Toxic to aquatic organisms, may cause
		long-term adverse effects in the aquatic

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Georg-Wilhelm-Straße 189	Deutsche Bank	Hamburg	600227300	200 700 00	DEUTDEHHXXX	DE58 2007 0000 0600 2273 00	Persönlich haftende Gesellschafterin:	Certification:	ALS. A
21107 Hamburg (Wilhelmsburg)	HypoVereinsbank	Hamburg	59273300	200 300 00	HYVEDEMM300	DE34 2003 0000 0059 2733 00	Grau Gebr. Beteiligungs-GmbH	ISO 9001,	
Tel.: +49 (0) 40 / 75 10 30	Postbank	Hamburg	373205	200 100 20	PBNKDEFF200	DE85 2001 0020 0000 3732 05	Sitz/Registergericht Hamburg: HRB 17189	TS 16949,	
Fax: +49 (0) 40 / 75 10 33 75							Geschäftsführender Gesellschafter:	EN 9100	7828
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S-phrase(s)	: S24	Avoid contact with skin.		
	S26	In case of contact with eyes, rinse		
		immediately with plenty of water and seek		
		medical advice.		
	S28	After contact with skin, wash immediately		
		with plenty of water.		
	S37/39	Wear suitable gloves and eye/face		
		protection.		
	S57	Use appropriate container to avoid		
		environmental contamination.		
	S60	This material and its container must be		
		disposed of as hazardous waste.		
Hazardous component	s which must be listed on th	ne label:		
25068-38-6	reaction product: bisphen	ol-A-(epichlorhydrin) and epoxy resin (number		
	average molecular weight			
16096-31-4	1,6-bis(2,3-epoxypropoxy)hexane			
68609-97-2	oxirane, mono[(C12-14-alkyloxy)methyl]derivs			
9003-36-5	EPOXY-NOVOLAC-RES	IN		
Chaosial labelling of and	tain . Containa anavu	constituents. Cas information oundied by the		
Special labelling of cert mixtures	manufacturer.	constituents. See information supplied by the		
THING B	manulaciulei.			

environment.

## 2.3 Other hazards

## 3. Composition/information on ingredients

## 3.2 Mixtures

Chemical nature

: Mixture of synthetic resins and pigments

## Hazardous components

Chemical Name CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Concentration [%]
reaction product: bisphenol-A-(epichlorhydrin) and epoxy resin (number average molecular weight <= 700) 25068-38-6 01-2119456619-26	Xi; R36/38 R43 N; R51/53	>= 50 - <= 100
1,6-bis(2,3-epoxypropoxy)hexane 16096-31-4 240-260-4	Xi; R36/38 R43 R52/53	>= 20 - < 25
oxirane, mono[(C12-14-alkyloxy)methyl]derivs 68609-97-2	Xi; R38 R43	>= 5 - < 12,5

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21107 Hamburg (Wilhelmsburg)	HypoVereinsbank	Hamburg	59273300	200 300 00	HYVEDEMM300	DE34 2003 0000 0059 2733 00	Grau Gebr. Beteiligungs-GmbH	ISO 9001,	ii ¥
Tel.: +49 (0) 40 / 75 10 30	Postbank	Hamburg	373205	200 100 20	PBNKDEFF200	DE85 2001 0020 0000 3732 05	Sitz/Registergericht Hamburg: HRB 17189	TS 16949,	12
Fax: +49 (0) 40 / 75 10 33 75							Geschäftsführender Gesellschafter:	Certification: ISO 9001, TS 16949, EN 9100	18
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271-846-8		
EPOXY-NOVOLAC-RESIN 9003-36-5	Xi; R36/38 R43 N; R51/53	>= 5 - < 12,5

For the full text of the R-phrases mentioned in this Section, see Section 16.

## 4. First aid measures

#### 4.1 Description of first aid measures

General advice	<ul> <li>In all cases of doubt, or when sickness symptoms persist, seek medica lattention.</li> <li>Never give anything by mouth to an unconscious person.</li> </ul>
If inhaled	: Remove to fresh air, keep patient warm and at rest. Call a doctor, should the air passages be affected
In case of skin contact	<ul> <li>Take off all contaminated clothing immediately.</li> <li>Wash skin thoroughly with soap and water or use recognised skin cleanser.</li> <li>Do NOT use solvents or thinners !</li> </ul>
In case of eye contact	: Remove contact lenses, irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart and seek medical advice.
If swallowed	<ul> <li>Do NOT induce vomiting. If accidentally swallowed obtain immediate medical attention. Never give anything by mouth to an unconscious person. Keep at rest.</li> </ul>
4.2 Most important symptoms a	nd effects, both acute and delayed
Symptoms	: No information available.

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

Treatment	:	No information

## 5. Firefighting measures

## 5.1 Extinguishing media

Suitable extinguishing media	: Not combustible under normal conditions.
	Use extinguishing measures that are appropriate to local
	circumstances and the surrounding environment.

## 5.2 Special hazards arising from the substance or mixture

: Fire will produce dense black smoke. Exposure to

available.

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Georg-Wilhelm-Straße 189	Deutsche Bank	Hamburg	600227300	200 700 00	DEUTDEHHXXX	DE58 2007 0000 0600 2273 00	Persönlich haftende Gesellschafterin:	Certification:	A 1 5 A
21107 Hamburg (Wilhelmsburg)	HypoVereinsbank	Hamburg	59273300	200 300 00	HYVEDEMM300	DE34 2003 0000 0059 2733 00	Grau Gebr. Beteiligungs-GmbH	ISO 9001,	8 <b>2</b> 2 8 6
Tel.: +49 (0) 40 / 75 10 30	Postbank	Hamburg	373205	200 100 20	PBNKDEFF200	DE85 2001 0020 0000 3732 05	Sitz/Registergericht Hamburg: HRB 17189	TS 16949,	
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firefighting	decomposition products may caus	e a health hazard.		
5.3 Advice for firefighters				
Special protective equipment	· Appropriate breathing apparatus n	nav be required		

opeolal protoctive equipment	. Appropriate breating apparate intra be required.	
for firefighters		
Further information	: DO NOT ALLOW RUN-OFF FROM FIRE FIGHTING TO	
	ENTER DRAINS OR WATER COURSES!!	

## 6. Accidental release measures

## 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	: Take the precautions customary when handling chemicals. Refer to protective measures listed in sections 7 and 8.
6.2 Environmental precautions	
Environmental precautions	: Do not let product enter drains. If the product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations.
6.3 Methods and materials for cont	ainment and cleaning up
Methods for cleaning up	: Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth

materials, e.g. sand, earth, vermiculite, diatomaceous eart
and place in container for disposal according to local
regulations (see chapter 13).
Clean preferably with a detergent; avoid use of solvents.

## 6.4 Reference to other sections

For personal protection see section 8.

## 7. Handling and storage

## 7.1 Precautions for safe handling

Advice on safe handling	:	Avoid contact with the skin and the eyes. Comply with the health and safety at work laws. Smoking, eating and drinking should be prohibited in the application area. Observe specific national regulations for handling and use of paints.
Advice on protection against fire and explosion	:	No special protective measures against fire required.
7.2 Conditions for safe storage, i	ncl	luding any incompatibilities
Requirements for storage	:	Keep container tightly closed. Never use pressure to empty:

Requirements for storage	:	Keep container tightly closed. Never use pressure to empty:
areas and containers		container isnot a pressure vessel. No smoking. Prevent
		unauthorized access.

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	Containers which are opened must kept upright to prevent leakage.	be carefully resealed and	
Further information on storage conditions	<ul> <li>Always keep in containers of same one. See also instructions on the la direct sunlight.</li> <li>Keep container dry in a cool, well-v</li> </ul>	bel. Avoid heating and	
Advice on common storage	: Keep away from oxidising agents a materials.	nd strongly acid or alkaline	
Storage temperature	: 5 - 35 °C		
7.3 Specific end uses			
	: This information is not available.		

## 8. Exposure controls/personal protection

## 8.1 Control parameters

## 8.2 Exposure controls

#### **Engineering measures**

Provide adequate ventilation. This should be achieved by the use of local exhaust ventilation and good general extraction.

Personal protective equipme	nt	
Respiratory protection	:	None, but avoid breathing vapours if possible.
Hand protection	:	Adhere to the professional organisation rule "Use of protective gloves". Appropriate chemicals resistant glove tested in compliance with EN 374. Recommendation for protection against components generally found in the products: For short-term contact (i.e. splash protection): Appropriate material: nitrile rubber, Neoprene Material thickness: > 0,4 mm Breakthrough time: > 480 min Before use, the protective glove should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of

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	protective gloves. Protective glove immediately when physically dama hand protection (skin protection cr immediately contaminated skin. De avoid permanent use of protective	aged or worn. Preventive eam) recommended. Wash esign operations thus to
Eye protection	: Wear safety goggles to protect aga	ainst splashes.

Skin and body protection	:	Personal should wear antistatic clothings made of natural fiber or ofhigh temperature resistant synthetic fiber. All parts of the body shouldbe washed after contact.

Protective measures	: Avoid product contact with skin, eyes and clothing. Avoid the inhalation of dust from sanding, particulates and spray mist arising from the application of this preparation.
Environmental exposure	controls
Conoral advisa	. Do not lot product optor drains

General advice	: Do not let product enter drains.
	If the product contaminates lakes, rivers or sewage, inform
	appropriate authorities in accordance with local regulations.

# 9. Physical and chemical properties

## 9.1 Information on basic physical and chemical properties

Appearance	: Pasty
Colour	: according product name
Odour	: characteristic
Boiling point/boiling range	: ca. 201 °C
Flash point	: 101 °C, ISO 2719
Lower explosion limit	: Note: no data available
Upper explosion limit	: Note: no data available
Vapour pressure	: 0,1 hPa, 20 °C
Density	: 1,07 g/cm3
Water solubility	: insoluble
Ignition temperature	: no data available
Other information	

Flow time

9.2

: > 90 s, 4 mm, DIN 53211

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## 10. Stability and reactivity

## **10.1 Reactivity**

No decomposition if stored and applied as directed.

### **10.2 Chemical stability**

Stable under normal conditions.

## 10.3 Possibility of hazardous reactions

Hazardous reactions	:	No dangerous reaction known under conditions of normal use.
10.4 Conditions to avoid		
Conditions to avoid	:	Stable under recommended storage and handling conditions (See section 7).
10.5 Incompatible materials		
Materials to avoid	:	Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.
10.6 Hazardous decomposition p	oro	ducts
Hazardous decomposition	:	No hazardous decomposition products known.

# **<u>11. Toxicological information</u>**

products

#### 11.1 Information on toxicological effects

Further information	<ul> <li>Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. The liquid splashed in the eyes may cause irritation and reversible damage.</li> <li>The product was classified in toxicological terms on the basis of the results of the calculation procedure outlined within General Directive on Preparations (1999/45/EC). Based on the properties of epoxy constituent(s) and considering toxicological data on similar preparations, this preparation may be a skin sensitiser and an irritant. It contains low molecular epoxy constituent(s) which are irritant to eyes, mucous membrane and skin. Repeated skin contact may lead to irritation and to sensitisation, possible with cross-sensitisation to other epoxies. Skin contact with the preparation and exposure to spray mist and vapour should be avoided.</li> </ul>
	avoided.

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# **12. Ecological information**

#### 12.1 Toxicity

### Product:

**Ecotoxicology Assessment** 

Acute aquatic toxicity : There are no data available on the preparation itself.

#### **Components:**

reaction product: bisphenol-A-(epichlorhydrin) and epoxy resin (number average molecula weight <= 700) :				
Toxicity to fish	: LC50: 1,3 mg/l, 96 h, Fish, OECD Test Guideline 203			
Toxicity to daphnia and other aquatic invertebrates.	: EC50: 2,1 mg/l, 48 h, Daphnia, OECD Test Guideline 202			

#### 12.2 Persistence and degradability

#### **Product:**

information

r roddott.	
Biodegradability :	There are no data available on the preparation itself.
12.3 Bioaccumulative potential	
Product:	
Bioaccumulation :	
12.4 Mobility in soil	There are no data available on the preparation itself.
Product:	
Mobility : 12.5 Results of PBT and vPvB asses	There are no data available on the preparation itself. ssment
Product:	
Assessment :	This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT)., This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).
12.6 Other adverse effects	
Product:	
Additional ecological :	There are no data available on the preparation itself., The

 
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 Bank Name Deutsche Bank
 Ort
 Kto.-Nr. Hamburg
 BLZ
 BIC
 IBAN
 Sitz/Registergericht
 Hamburg: HRA 42442
 Bureau Vertain

 Georg-Wilheim-Straße 189
 Deutsche Bank
 Hamburg
 600227300
 200 700 00
 DEUTDEHHXXX
 DE58 2007 0000 0600 2273 00
 Persönlich haftende Gesellschafterin:
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 59273300
 200 300 00
 HYVEDEMM300
 DE34 2003 0000 0059 2733 00
 Grau Gebr. Beteiligungs-GmibH
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 Fax: +49 (0) 40 / 75 10 33 75
 Postbank
 Hamburg
 373205
 200 100 20
 PBNKDEFF200
 DE85 2001 0020 0000 373 05
 Sitz/Registergericht Hamburg: HRB 1718 TS
 TS 1649,
 Manktewicz debr. & Cob. (On DO Georg-Wilz debr. & Cob. (On DO Georg-Wilz debr.) 21107 Hamburg (Wilhelmsburg) Tell: +49 (0) 40 / 75 10 30 Fax: +49 (0) 40 / 75 10 33 75 www.mankiewicz.de

courses.

product should not be allowed to enter drains or water

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# 13. Disposal considerations

#### 13.1 Waste treatment methods

Product	The listed waste code numbers, according to the E Waste Catalogue, are to be understood as a recon A final decision must be made in agreement with the waste disposal company.	nmendation.
Contaminated packaging	Contaminated packaging should be emptied as far and after appropriate cleansing may be taken for re Packaging that cannot be cleaned should be dispo agreement with the regional waste disposal compa	euse. sed off in
Waste key for the unused product	080111 waste paint and varnish containing organic other dangerous substances	solvents or

# 14. Transport information

<b>ADR</b> UN Number Description of the goods	N.O.S. (reaction p	MENTALLY HAZARDOUS SUBSTANCE, SOLID, roduct: bisphenol-A-(epichlorhydrin) and epoxy resin verage molecular weight <= 700), EPOXY- C-RESIN)
Class Packaging group	9 III	
Classification Code	M7	
Hazard identification No ADR/RID-Labels	90 9	
Tunnel restriction code	Tunnelcod	e E
Environmentally hazardous	yes	
IMDG		
Substance No.	UN 3077	
Description of the goods	N.O.S.	MENTALLY HAZARDOUS SUBSTANCE, SOLID,
		product: bisphenol-A-(epichlorhydrin) and epoxy ber average molecular weight <= 700), EPOXY- C-RESIN)
Class	9	- ,
Packaging group IMDG-Labels	 9	
EmS Number	5 F-A, S-F	
Marine pollutant	yes	

#### ΙΑΤΑ

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Georg-Wilhelm-Straße 189	Deutsche Bank	Hamburg	600227300	200 700 00	DEUTDEHHXXX	DE58 2007 0000 0600 2273 00	Persönlich haftende Gesellschafterin:	Certification:	A
21107 Hamburg (Wilhelmsburg)	HypoVereinsbank	Hamburg	59273300	200 300 00	HYVEDEMM300	DE34 2003 0000 0059 2733 00	Grau Gebr. Beteiligungs-GmbH	ISO 9001,	8 <b>1</b> 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Tel.: +49 (0) 40 / 75 10 30	Postbank	Hamburg	373205	200 100 20	PBNKDEFF200	DE85 2001 0020 0000 3732 05	Sitz/Registergericht Hamburg: HRB 17189	TS 16949,	
Fax: +49 (0) 40 / 75 10 33 75							Geschäftsführender Gesellschafter:	EN 9100	1828
www.mankiewicz.de							Michael O. Grau		
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UN Number Description of the goods	:	3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (reaction product: bisphenol-A-(epichlorhydrin) and epoxy resin (number average molecular weight <= 700), EPOXY- NOVOLAC-RESIN)
Class	:	9
Packaging group	:	III
ICAO-Labels	:	9
Packing instruction (cargo aircraft)	:	956
Environmentally hazardous	:	no
Packing instruction (passenger aircraft)	:	956
Packing instruction (passenger aircraft)	:	Y956
Other information	:	If transported within the user's premises: To be transported always in closed, upright and safe containers. Make sure that persons handling these containers are aware of the rules of conduct in case of incident or spillage.

## **15. Regulatory information**

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

Directive 99/13/EC	: not applicable:
Other regulations	: The information given in this material safety data sheet does not release the user from its duty of risk assessment and control in the work place defined in other health and safety law., Adhere to the national sanitary and occupational safety regulations when using this product.

## **15.2 Chemical Safety Assessment**

## 16. Other information

## Full text of R-phrases referred to under sections 2 and 3

R36/38	Irritating to eyes and skin.
R38	Irritating to skin.
R43	May cause sensitization by skin contact.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

#### Further information

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Other information

: This safety datasheet complies with the requirements of regulation (EC) No 1907/2006(453/2010).

#### Department issuing safety data sheet

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