

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

Printing date 18.03.2014

V - 1

Revision: 18.03.2014

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

- **1.1 Product identifier**
 - **Trade name:** YACHTCARE Steelbond A-Komponente
 - **1.2 Relevant identified uses of the substance or mixture and uses advised against** Not determined
 - **Application of the substance / the mixture**
Epoxy resin
Epoxy resin adhesive
 - **1.3 Details of the supplier of the safety data sheet**
 - **Manufacturer/Supplier:**
Vosschemie GmbH
Esinger Steinweg 50
D-25436 Uetersen
Phone: +49 (0)4122 717 0; Fax: +49 (0)4122 717158; info@vosschemie.de
 - **Further information obtainable from:**
Abteilung Labor / +49 (0)4122 717 0
s.schaller@vosschemie.de
 - **1.4 Emergency telephone number:**
Giftinformationszentrum (GIZ)-Nord, Goettingen, Deutschland
Phone: +49 (0)551 19240, +49 (0)551 383180
-

2 Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



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.
.....	
Aquatic Chronic 3	H412 Harmful to aquatic life with long lasting effects.

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· Classification according to Directive 67/548/EEC or Directive 1999/45/EC**Xi; Irritant****R36/38:** Irritating to eyes and skin.**Xi; Sensitising****R43:** May cause sensitisation by skin contact.**R52/53:** Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.**· Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

· Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

· 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

· Signal word Warning**· Hazard-determining components of labelling:**

Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)

reaction product: bisphenol-F-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)

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.

H412 Harmful to aquatic life with long lasting effects.

· Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P273 Avoid release to the environment.

P261 Avoid breathing mist/vapours/spray.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

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

· Additional information:

Contains epoxy constituents. May produce an allergic reaction.

· 2.3 Other hazards**· Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

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· vPvB: Not applicable.

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3 Composition/information on ingredients

· 3.2 Chemical characterization: Mixtures

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

· **Dangerous components:**

CAS: 25068-38-6 NLP: 500-033-5 Reg.nr.: 01-2119456619-26	Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700) ☒ Xi R36/38; ☒ Xi R43; ☒ N R51/53 ⚠ Aquatic Chronic 2, H411; ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	10-25%
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) ☒ Xi R36/38; ☒ Xi R43; ☒ N R51/53 ⚠ Aquatic Chronic 2, H411; ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	2.5-10%
CAS: 68609-97-2 EINECS: 271-846-8 Reg.nr.: 01-2119485289-22	oxirane, monof(C12-14-alkyloxy)methyl] derivs ☒ Xi R38; ☒ Xi R43 ⚠ Skin Irrit. 2, H315; Skin Sens. 1, H317	2.5-10%
CAS: 64742-95-6 EC number: 918-668-5 Reg.nr.: 01-2119455851-35	Hydrocarbons, C9, aromatics ☒ Xn R65; ☒ Xi R37; ☒ N R51/53 R10-66-67 ⚠ Flam. Liq. 3, H226; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Chronic 2, H411; ⚠ STOT SE 3, H335-H336	0.1-1.0%

· **Additional information:** For the wording of the listed risk phrases refer to section 16.

4 First aid measures

· 4.1 Description of first aid measures

· **General information:**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

Personal protection for the First Aider.

Take affected persons out of danger area and lay down.

In case of irregular breathing or respiratory arrest provide artificial respiration.

Immediately remove any clothing soiled by the product.

· **After inhalation:**

Supply fresh air or oxygen; call for 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.

If skin irritation continues, consult a doctor.

· **After eye contact:**

Rinse opened eye for several minutes under running water. Then consult a doctor.

If eye irritation persists: Get medical advice/attention.

· **After swallowing:**

Rinse mouth.

Do not induce vomiting; call for medical help immediately.

A person vomiting while laying on their back should be turned onto their side.

· **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.

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- **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

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5 Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** CO₂, powder or water spray. Fight larger fires with water spray.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **5.2 Special hazards arising from the substance or mixture**
Carbon monoxide (CO)
Formation of toxic gases is possible during heating or in case of fire.
- **5.3 Advice for firefighters**
- **Protective equipment:**
Wear self-contained respiratory protective device.
Wear fully protective suit.
Do not inhale explosion gases or combustion gases.
- **Additional information**
Cool endangered receptacles with water spray.
Collect contaminated fire fighting water separately. It must not enter the sewage system.
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
Avoid contact with the eyes and skin.
Ensure adequate ventilation
Do not inhale gases / fumes / aerosols.
Keep away from ignition sources.
- **6.2 Environmental precautions:**
Do not allow to enter sewers/ surface or ground water.
Do not allow to penetrate the ground/soil.
Inform respective authorities in case of seepage into water course 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 contaminated material as waste according to item 13.
- **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.

7 Handling and storage

- **7.1 Precautions for safe handling**
Keep receptacles tightly sealed.
Open and handle receptacle with care.
Ensure good ventilation/exhaustion at the workplace.
Avoid contact with the eyes and skin.
Do not inhale gases / fumes / aerosols.
- **Information about fire - and explosion protection:**
Keep ignition sources away - Do not smoke.

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Protect against electrostatic charges.

· **7.2 Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:**

Store only in the original receptacle.

Prevent any seepage into the ground.

· **Information about storage in one common storage facility:** Store away from foodstuffs.

· **Further information about storage conditions:**

Store in cool, dry conditions in well sealed receptacles.

Store receptacle in a well ventilated area.

Keep ignition sources away - Do not smoke.

· **Recommended storage temperature:** +15 °C - +25 °C

· **7.3 Specific end use(s)** No further relevant information available.

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.

· **DNELs**

25068-38-6 Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)

Oral	Long-term exposure - systemic effects	0.75 mg/kg bw/day (general population)
Dermal	Long-term exposure - systemic effects	3.571 mg/kg bw/day (general population)
		8.33 mg/kg bw/day (worker)
Inhalative	Long-term exposure - systemic effects	12.25 mg/m ³ (worker)

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

Oral	Acute/short-term exposure - systemic effects	1219 mg/kg bw/day (general population)
	Long-term exposure - systemic effects	1 mg/kg bw/day (general population)
Dermal	Acute/short-term exposure - local effects	40 mg/cm ² (general population)
		68 mg/cm ² (worker)
	Acute/short-term exposure - systemic effects	10 mg/kg bw/day (general population)
		17 mg/kg bw/day (worker)
	Long-term exposure - local effects	1 mg/cm ² (general population)
		1.7 mg/cm ² (worker)
Inhalative	Long-term exposure - systemic effects	2.35 mg/kg bw/day (general population)
		3.9 mg/kg bw/day (worker)
	Acute/short-term exposure - local effects	2.9 mg/m ³ (general population)
		9.8 mg/m ³ (worker)
	Acute/short-term exposure - systemic effects	7.6 mg/m ³ (general population)
		29 mg/m ³ (worker)
	Long-term exposure - local effects	1.46 mg/m ³ (general population)
		0.98 mg/m ³ (worker)
	Long-term exposure - systemic effects	4.1 mg/m ³ (general population)

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		13.8 mg/m ³ (worker)
64742-95-6 Hydrocarbons, C9, aromatics		
Oral	Long-term exposure - systemic effects	11 mg/kg bw/day (general population)
Dermal	Long-term exposure - systemic effects	11 mg/kg bw/day (general population)
		25 mg/kg bw/day (worker)
Inhalative	Long-term exposure - systemic effects	32 mg/m ³ (general population)
		150 mg/m ³ (worker)

· **PNECs**

25068-38-6 Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)

PNEC STP	10 mg/l (-)
PNEC aqua	0.006 mg/l (freshwater)
	0.0006 mg/l (marine water)
	0.018 mg/l (intermittent releases)
PNEC sediment	0.996 mg/kg (freshwater)
	0.0996 mg/kg (marine water)
PNEC soil	0.196 mg/kg (soil dw)

· **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.

Do not eat, drink, smoke or sniff while working.

Store protective clothing separately.

Contaminated work clothing should not be allowed out of the workplace.

Immediately remove all soiled and contaminated clothing

Take off contaminated clothing.

Wash hands before breaks and at the end of work.

Use skin protection cream for skin protection.

Avoid contact with the eyes and skin.

After contact with skin, wash immediately with plenty of soap and water.

· **Respiratory protection:**

Ensure good ventilation/exhaustion at the workplace.

Adhere to the workplace limit values and / or other threshold values.

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.

Filter A/P2

· **Protection of hands:**

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

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

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

· **Material of gloves**

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

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resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Butyl rubber, BR

· **Penetration time of glove material**

Value for the permeation: Level ≤ 6 (≤ 480 min.)

The exact break through 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:**

Neoprene gloves

Nitrile rubber, NBR

· **Eye protection:**



Tightly sealed goggles

· **Body protection:** Protective work clothing

9 Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

Form:	Pasty
Colour:	Dark grey
Odour:	Characteristic

· **Change in condition**

Boiling point/Boiling range: Not applicable

· **Flash point:** > 100 °C

· **Ignition temperature:** Not determined

· **Decomposition temperature:** > 200 °C

· **Self-igniting:** Product is not selfigniting.

· **Danger of explosion:** Product does not present an explosion hazard.

· **Vapour pressure at 20 °C:** ~ 0.1 hPa

· **Density at 20 °C:** 2.85 g/cm^3

· **Solubility in / Miscibility with water:**

Insoluble.

· **9.2 Other information** No further relevant information available.

10 Stability and reactivity

· **10.1 Reactivity** No decomposition if used according to specifications.

· **10.2 Chemical stability** No decomposition if used and stored according to specifications.

· **10.3 Possibility of hazardous reactions**

Exothermic polymerization.

May produce violent reactions with bases and numerous organic substances including alcohols and amines.

· **10.4 Conditions to avoid** No further relevant information available.

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· **10.5 Incompatible materials:**

Reacts with strong acids and alkali.

Reacts with strong oxidizing agents.

· **10.6 Hazardous decomposition products:**

Irritant gases/vapours

Formation of toxic gases is possible during heating or in case of fire.

11 Toxicological information

· **11.1 Information on toxicological effects**

· **Acute toxicity:**

· **LD/LC50 values relevant for classification:**

25068-38-6 Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)

Oral	LD50	15000 mg/kg (rat) 23000 mg/kg (rabbit)
Dermal	LD 50	> 2000 mg/kg (rat) > 2000 mg/kg (rabbit)

9003-36-5 reaction product: bisphenol-F-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)

Oral	LD 50	> 5000 mg/kg (rat)
Dermal	LD 50	> 2000 mg/kg (rat)

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

Oral	LD50	30.1 mg/kg (rat)
Inhalative	LC50 /6h	> 0.15 mg/l (rat)

64742-95-6 Hydrocarbons, C9, aromatics

Oral	LD 50	> 3500 mg/kg (rat) (OECD 401)
Dermal	LD 50	> 3160 mg/kg (rabbit) (OECD 402)
Inhalative	LC50 /4h	> 6193 mg/m ³ (rat) (OECD Guideline 403, vapour)

· **Primary irritant effect:**

· **on the skin:** Irritant to skin and mucous membranes.

· **on the eye:** Irritating effect.

· **Subacute to chronic toxicity:**

25068-38-6 Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)

Oral	NOAEL (subacute)	50 mg/kg (-) (OECD 408, 90d)
Dermal	NOAEL (subchronic)	100 mg/kg (-) (OECD 411, 90 d)
	NOEL	10 mg/kg (-) (OECD 411, 90d)

9003-36-5 reaction product: bisphenol-F-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)

Oral	NOAEL	250 mg/kg (rat) (OECD 408, 90d)
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68609-97-2 oxirane, mono[(C12-14-alkyloxy)methyl] derivs

Dermal	NOEL	1 mg/kg (-) (per day, 90d, OECD 411)
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· **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Irritant

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· **Sensitisation**

Contains epoxy constituents. May produce an allergic reaction.

May cause sensitisation by skin contact.

· **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

· **Carcinogenicity** No further relevant information available.

· **Reproductive toxicity/Fertility**

25068-38-6 Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)

Oral NOAEL (fertility) 750 mg/kg (-)

9003-36-5 reaction product: bisphenol-F-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)

Oral NOAEL (fertility) 540 mg/kg (rat) (OECD 416, two-generation)

· **Reproductive toxicity/Teratogenicity**

25068-38-6 Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)

Oral	NOAEL (developmental toxicity)	540 mg/kg (rat) (OECD 416, Two-Generation Study)
	NOAEL (teratogenicity)	> 540 mg/kg (rat) (OECD 414 Prenatal Developmental Toxicity Study)
		180 mg/kg (rabbit) (OECD 414 Prenatal Developmental Toxicity Study)

9003-36-5 reaction product: bisphenol-F-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)

Oral NOAEL (teratogenicity) > 300 mg/kg (rabbit) (EPA CFR)

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

Oral NOAEL (developmental toxicity) 200 mg/kg (rat) (OECD 414, prenatal)

12 Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:**

25068-38-6 Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)

EC50/3h	> 100 mg/l (bacteria) (aerobic)
EC50/48h	1.8 mg/l (daphnia) (OECD 202)
EC50/72h	9.4 mg/l (Selenastrum capricornutum)
LC50/96h	2 mg/l (leuciscus idus)
	1.5 mg/l (oncorhynchus mykiss) (OECD 203)
NOEC	0.3 mg/l (daphnia magna) (OECD 211 21d)

9003-36-5 reaction product: bisphenol-F-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)

EC50/3h	>100 mg/l (bacteria)
EC50/48h	1.6 mg/l (daphnia magna) (OECD 202 Part I)
EC50/72h	1.8 mg/l (Selenastrum capricornutum) (OECD 201)
LC50/96h	0.55 mg/l (oncorhynchus mykiss) (OECD 203)
NOEC	0.3 mg/l (daphnia magna) (OECD 211)

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

EC50/3h	> 100 mg/l (bacteria) (OECD 209)
EC50/48h	6.07 mg/l (daphnia magna) (OECD 202)
EL50/72h	843.75 mg/l (algae) (OECD 201)
LC50/96h	> 5000 mg/l (oncorhynchus mykiss)
NOEC	500 mg/l (Pseudokirchneriella subcapitata) (OECD 201)

64742-95-6 Hydrocarbons, C9, aromatics

EC50/48h	7.4 mg/l (daphnia magna)
EL50/48h	3.2 mg/l (daphnia) (OECD Guideline 202, mobility)
EL50/72h	2.9 mg/l (Pseudokirchneriella subcapitata) (OECD Guideline 201)
LL50/96h	9.2 mg/l (oncorhynchus aguabonita) (OECD Guideline 203)
NOELR (aqua chron.)	2.144 mg/l (daphnia magna) (21d, calculated by a computer model)

12.2 Persistence and degradability**25068-38-6 Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)**

Biodegradation 5 % (-) (OECD 301F, 28d)

9003-36-5 reaction product: bisphenol-F-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)

Biodegradation 0 % (-) (28d)

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

Biodegradation 87 % (-) (OECD 301F 28d)

64742-95-6 Hydrocarbons, C9, aromatics

Biodegradation > 70 % (-) (OECD Guideline 301 F, 28d)

• **Other information:** The product is difficultly biodegradable.**12.3 Bioaccumulative potential****25068-38-6 Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)**

BCF	31 (-)
log Pow	3.242 (-)

9003-36-5 reaction product: bisphenol-F-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)

log Pow 2.7 - 3.6 (-)

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

log Pow 3.77 (-) (OECD 107)

Behaviour in environmental systems:• **12.4 Mobility in soil** No further relevant information available.• **Ecotoxicological effects:**• **Remark:** Toxic for fish• **Additional ecological information:**• **General notes:**

Toxic for aquatic organisms

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.

12.5 Results of PBT and vPvB assessment• **PBT:** Not applicable.• **vPvB:** Not applicable.

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- **12.6 Other adverse effects** No further relevant information available.

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.

· **Waste disposal key:**

The waste codes given above are to be considered recommendations; because of regional and industrial sector specific features, application of different waste codes is possible.

· **Uncleaned packaging:**

- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

· **14.1 UN-Number**

· **ADR, IMDG, IATA**

UN3082

· **14.2 UN proper shipping name**

· **ADR**

3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

· **IMDG**

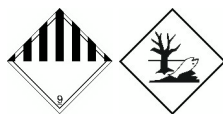
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700), Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol), MARINE POLLUTANT

· **IATA**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

· **14.3 Transport hazard class(es)**

· **ADR, IMDG, IATA**



· **Class**

9 Miscellaneous dangerous substances and articles.

· **Label**

9

· **14.4 Packing group**

· **ADR, IMDG, IATA**

III

· **14.5 Environmental hazards:**

· **Marine pollutant:**

Symbol (fish and tree)

· **Special marking (ADR):**

Symbol (fish and tree)

· **Special marking (IATA):**

Symbol (fish and tree)

· **14.6 Special precautions for user**

Warning: Miscellaneous dangerous substances and articles.

· **14.7 Transport in bulk according to Annex II of**

MARPOL73/78 and the IBC Code

Not applicable.

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· Transport/Additional information:**· ADR****· Tunnel restriction code****E****15 Regulatory information****· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****· National regulations:****· Information about limitation of use:**

Employment restrictions concerning juveniles must be observed.

Employment restrictions concerning pregnant and lactating women must be observed.

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.**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

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

R10 Flammable.

R36/38 Irritating to eyes and skin.

R37 Irritating to respiratory system.

R38 Irritating to skin.

R43 May cause sensitisation by skin contact.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R65 Harmful: may cause lung damage if swallowed.

R66 Repeated exposure may cause skin dryness or cracking.

R67 Vapours may cause drowsiness and dizziness.

· Department issuing MSDS: Abteilung Labor**· Contact: Frau S. Schaller****· Abbreviations and acronyms:**

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 Organization

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 Harmonized 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)

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according to 1907/2006/EC, Article 31

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Trade name: YACHTCARE Steelbond A-Komponente

LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent

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