

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

Printing date 10.11.	2020	Revision: 04.11.2020
SECTION 1:	Identification of the substance/mixture and of the compa	ny/undertaking
· 1.1 Product iden	ntifier	
• Trade name: <u>H</u> • UFI: APW1-X0 • 1.2 Relevant ide No further relev	ADALAN ESD-G 12E, Komponente A	Α
· Manufacturer/S	e GmbH & Co. KG 6 rück	
Abteilung: Prod Tel +49 2363 info-hahne@sie 1.4 Emergency	5663-0 vert.de telephone number: zentrum Nord (GIZ Nord) Universität Göttingen,	
· 2.1 Classification a	Hazards identification on of the substance or mixture ccording to Regulation (EC) No 1272/2008 09 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.	
	ding to Regulation (EC) No 1272/2008 lassified and labelled according to the CLP regulation. Ims	
• Signal word Wa	rning	
reaction produc formaldehyde, o	ning components of labelling: t: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecula ligomeric reaction products with 1-chloro-2,3-epoxypropane and phen C12-14-alkyloxy)methyl] derivs	

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Hazard stateme	ents
H315 Causes sk	cin irritation.
H319 Causes se	erious eye irritation.
H317 May caus	e an allergic skin reaction.
H411 Toxic to a	equatic life with long lasting effects.
Precautionary s	
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P	353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P305+P351+P	338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, i present and easy to do. Continue rinsing.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
Additional info	rmation:
Contains epoxy	constituents. May produce an allergic reaction.
2.3 Other hazar	
Results of PBT	and vPvB assessment
PBT: Not appli	
vPvB: Not appl	

SECTION 3: Composition/information on ingredients

· 3.2 Chemical characterisation: Mixtures

· Description: Epoxy resin

· Dangerous components:		
CAS: 25068-38-6 NLP: 500-033-5	<i>reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700)</i>	25-50%
	Aquatic Chronic 2, H411; (1) Acute Tox. 4, H312; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	
CAS: 9003-36-5	formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol Aquatic Chronic 2, H411; (1) Skin Irrit. 2, H315; Skin Sens. 1, H317	10-25%
CAS: 68609-97-2 EINECS: 271-846-8	oxirane, mono[(C12-14-alkyloxy)methyl] derivs	10-25%
CAS: 78-93-3 EINECS: 201-159-0	butanone	<1.0%

• Additional information:

For the wording of the listed hazard phrases refer to section 16. GISCODE: RE 1 (resin + hardener)

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.

Immediately rinse with water.

• After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

• *After swallowing:* Drink plenty of water and provide fresh air. Call for a doctor immediately.

• 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.

SECTION 5: Firefighting measures

- 5.1 Extinguishing media
- Suitable extinguishing agents: Foam (alcohol-resistant), carbon dioxide, powder, spray mist.
- For safety reasons unsuitable extinguishing agents: Full water jet.
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- 5.3 Advice for firefighters
- Protective equipment: In case of fire: Use breathing protection with an independent fresh air supply.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Keep people away, ensure adequate ventilation.
- 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). 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. Store in a cool, dry place in tightly closed containers.

- 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: Store frost-free.
- · Information about storage in one common storage facility: Store away from food, beverages and feed.
- Further information about storage conditions: Keep container tightly sealed.
- Storage class: VCI: 10
- 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.

78-93-3 butanone (<1.0%)

WEL Long-term value: 600 mg/m³, 200 ppm Sk, BMGV

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Additional	information: The lists valid during the making were used as basis.
8.2 Exposu	re controls
	otective equipment:
	stective and hygienic measures:
	from foodstuffs, beverages and feed.
	remove all soiled and contaminated clothing
	before breaks and at the end of work.
	ct with the eyes and skin.
	protection:
In case of b	rief exposure or low pollution use respiratory filter device. In case of intensive or longer expos tained respiratory protective device.
Not require	d with good ventilation.
Protection	of hands:
Protective g	loves
Due to mis.	aterial has to be impermeable and resistant to the product/ the substance/ the preparation. ing tests no recommendation to the glove material can be given for the product/ the preparat
the chemica	
	f the glove material on consideration of the penetration times, rates of diffusion and
degradatio	
1	ive gloves. Wear nitrile gloves with a layer thickness of at least 0.4 mm. 1 time> = 480 minutes - see also www.gisbau.de)
Material of	
and varies	n of the suitable gloves does not only depend on the material, but also on further marks of qua from manufacturer to manufacturer. As the product is a preparation of several substances, f the glove material can not be calculated in advance and has therefore to be checked prior to
Penetration	time of glove material
	reak trough time has to be found out by the manufacturer of the protective gloves and has to
Eye protect	ion: Tightly sealed goggles
	tion: Use long-sleeved protective clothing

· Body protection: Use long-sleeved protective clothing.

SECTION 9: Physical and chemical properties • 9.1 Information on basic physical and chemical properties · General Information · Appearance: Form: Fluid Colour: Various colours · Odour: weak, characteristic · Odour threshold: Not determined. · pH-value: Not determined. · Change in condition Undetermined. *Melting point/freezing point:* Initial boiling point and boiling range: Undetermined. >60 °C · Flash point: · Flammability (solid, gas): Not applicable. • Decomposition temperature: Not determined. Product is not selfigniting. • Auto-ignition temperature: • Explosive properties: Product does not present an explosion hazard. · Explosion limits: Lower: Not determined. (Contd. on page 5)

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Upper:	Not determined.	
· Vapour pressure:	Not determined.	
· Density:	Not determined.	
· 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:		
Organic solvents:	1.0 %	
· 9.2 Other information	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
- Exothermic reactions with amines. Process quickly after adding the hardener, as high temperatures can be reached during hardening.
- 10.4 Conditions to avoid No further relevant information available.
- · 10.5 Incompatible materials:

Keep away from strongly acidic and alkaline materials as well as oxidizing agents in order to avoid exothermic reactions.

- · 10.6 Hazardous decomposition products:
- At high temperatures, carbon dioxide, carbon monoxide, smoke and nitrogen oxides can be produced.

SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

- LC50 (inhalation) of the mixture: Not classified (No relevant ingredient)
- LD50 (Oral) of the mixture: Not classified (No relevant ingredient)
- LD50 (Dermal) of the mixture: Not classified (No relevant ingredient)

• Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:

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

- Oral LD50 >2,000 mg/kg (rat)
- Dermal LD50 mg/kg (rab)

>1,200 mg/kg (rat)

78-93-3 butanone

Oral LD50 3,300 mg/kg (rat)

Dermal LD50 5,000 mg/kg (rbt)

9003-36-5 formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol

Oral LD50 mg/kg (rab)

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>1,000 mg/kg (rat)	
$Dermal \left LD50 \right > 2,000 \text{ mg/kg (rat)}$	
68609-97-2 oxirane, mono[(C12-14-alkyloxy)methyl] derivs	
Oral LD50 mg/kg (rat)	
Dermal LD50 >10,000 mg/kg (rat)	
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 (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.	
<i>STOT-repeated exposure Based on available data, the classification criteria are not met.</i> <i>Aspiration hazard Based on available data, the classification criteria are not met.</i>	
Aspiration nazara basea on available aaia, the classification criteria are not met.	
SECTION 12: Ecological information	
12.1 Toxicity	
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol $LC50$ - fish 2.54 mg / l / 96h (leuciscus idus)	
EC50 - $algae / aquatic plants 1.8 mg / l / 72h (algae)$	
EC10 crustaceans 2.55 mg/l/48h (daphnia)	
Oxirane, mono [(C12-14-alkyloxy) methyl] derivatives	
LC50 - fish > 10 mg / 1 / 96h (leuciscus idus)	
EC50 - crustaceans> 10 mg / l / 48h (Dap)	
Aquatic toxicity: No further relevant information available.	
12.2 Persistence and degradability	0
<i>Reaction product: bisphenol-A-epichlorohydrin resins with average molecular weight> 700</i> <i>Water solubility 0.1-100 mg / l</i>)
water solubility $0.1-100 \text{ mg}/1$	
NOT rapidly degradable	
NOT rapidly degradable Butanone	
NOT rapidly degradable	
NOT rapidly degradable Butanone Water solubility> 10000 mg / l Quickly degradable Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	
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NOT rapidly degradable Butanone Water solubility> 10000 mg / l Quickly degradable Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol NOT rapidly degradable Oxirane, mono [(C12-14-alkyloxy) methyl] derivatives Quickly degradable 12.3 Bioaccumulative potential No further relevant information available. 12.4 Mobility in soil No further relevant information available. 12.4 Mobility in soil No further relevant information available. 12.5 Remark: Toxic for fish Additional ecological information: General notes: Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water	
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NOT rapidly degradable Butanone Water solubility> 10000 mg / 1 Quickly degradable Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol NOT rapidly degradable Oxirane, mono [(C12-14-alkyloxy) methyl] derivatives Quickly degradable 12.3 Bioaccumulative potential No further relevant information available. 12.4 Mobility in soil No further relevant information available. 12.4 Mobility in soil No further relevant information available. Ecotoxical 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	
NOT rapidly degradable Butanone Water solubility> 10000 mg / 1 Quickly degradable Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol NOT rapidly degradable Oxirane, mono [(C12-14-alkyloxy) methyl] derivatives Quickly degradable 12.3 Bioaccumulative potential No further relevant information available. 12.4 Mobility in soil No further relevant information available. 12.4 Mobility in soil No further relevant information available. Ecotoxical 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	

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· 12.6 Other adverse effects No further relevant information available.

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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.

· European waste catalogue

08 01 11* waste paint and varnish containing organic solvents or other hazardous substances

· Uncleaned packaging:

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

14.1 UN-Number ADR, IMDG, IATA	UN3082
14.2 UN proper shipping name ADR	3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID, N.O.S. (reaction product: bisphenol-A (epichlorhydrin) epoxy resin (number average molecula weight = 700), formaldehyde, oligomeric reaction product with 1-chloro-2,3-epoxypropane and phenol)
IMDG	with 1-chloro-2, 3-epoxypropute and phenol) ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID, N.O.S. (reaction product: bisphenol-A (epichlorhydrin) epoxy resin (number average molecula weight = 700), formaldehyde, oligomeric reaction product with 1-chloro-2, 3-epoxypropane and phenol), MARIN POLLUTANT
IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID, N.O.S. (reaction product: bisphenol-A (epichlorhydrin) epoxy resin (number average molecula weight = 700), formaldehyde, oligomeric reaction product with 1-chloro-2,3-epoxypropane and phenol)
14.3 Transport hazard class(es)	
ADR, IMDG, IATA	9 Miscellaneous dangerous substances and articles. 9
14.4 Packing group ADR, IMDG, IATA	111
14.5 Environmental hazards: Marine pollutant: Special marking (ADR): Special marking (LATA):	Symbol (fish and tree) Symbol (fish and tree) Symbol (fish and tree)
14.6 Special precautions for user	Warning: Miscellaneous dangerous substances an articles.

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Stowage Category	A
14.7 Transport in bulk according to Anne	ex II of
Marpol and the IBC Code	Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: El
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
Transport category	3
Tunnel restriction code	-
IMDG	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
UN "Model Regulation":	UN 3082 ENVIRONMENTALLY HAZARDOU
	SUBSTANCE, LIQUID, N.O.S. (REACTION PRODUCT
	BISPHENOL-A-(EPICHLORHYDRIN) EPOXY RESI
	(NUMBER AVERAGE MOLECULAR WEIGHT = 700)
	FORMALDEHYDE, OLIGOMERIC REACTION
	PRODUCTS WITH 1-CHLORO-2,3-EPOXYPROPAN
	AND PHENOL), 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 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:
- Waterhazard class: Water hazard class 2 (Self-assessment): hazardous for water.
- Other regulations, limitations and prohibitive regulations During activities involving exposure to uncured epoxy resins and contact via the skin or the Regular medical check-ups are to be arranged for the respiratory tract.
- Substances of very high concern (SVHC) according to REACH, Article 57 Das Produkt unterliegt der RL 2004/42/EG.EU-Grenzwert dieses Produktes ist im gebrauchtfertigen Zustand: Kat A/j max. 500 g/l (2010). Das Produkt enthält im gebrauchtfertigen Zustand: max. 1 g/l VOC.
- 15.2 Chemical safety assessment: 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

H225 Highly flammable liquid and vapour. H312 Harmful in contact with skin. H315 Causes skin irritation.

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H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.
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)
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organisation
ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)
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)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
Flam. Liq. 2: Flammable liquids – Category 2
Acute Tox. 4: Acute toxicity - dermal – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2
<i>Eye Irrit. 2: Serious eye damage/eye irritation – Category 2</i>
Skin Sens. 1: Skin sensitisation – Category 1
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
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