

Printing date 17.11.2020 Revision: 17.11.2020

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

· 1.1 Product identifier

· Trade name: HADALAN LF41 12E, Komp. B

· Article number: 40738B

· UFI: 4140-Y06X-M00S-W8KR

· 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

Solvent-free, 2 component, dispersion based epoxy resin coating for interior and exterior floor

· 1.3 Details of the supplier of the safety data sheet

· Manufacturer/Supplier:

Sievert Baustoffe GmbH & Co. KG

Mühleneschweg 6 D-49090 Osnabrück

Tel.: +49 2363 5663-0

· Further information obtainable from:

Abteilung: Produktsicherheit

Tel.. +49 2363 5663-0

info-hahne@sievert.de

· 1.4 Emergency telephone number:

Giftinformationszentrum Nord (GIZ Nord) Universität Göttingen,

Tel.: 0551-19240

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.



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.

- · 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

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Hazard-determining components of labelling:

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

formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol oxirane, mono[(C12-14-alkyloxy)methyl] derivs

· Hazard statements

H315 Causes skin irritation.

H319 Causes serious eve irritation.

H317 May cause an allergic skin reaction.

H411 Toxic to aquatic life with long lasting effects.

· Precautionary statements

P262 Do not get in eyes, on skin, or on clothing.

P273 Avoid release to the environment.

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

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P360 Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.

· Additional information:

Contains epoxy constituents. May produce an allergic reaction.

- · 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:** Compount of following substances with innocuous constituents.

Dangerous components:		
	bis[4-(2,3-epoxypropoxy)phenyl]propane	50-100%
EINECS: 216-823-5	Aquatic Chronic 2, H411;	
	formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	10-25%
	Aquatic Chronic 2, H411; 🔷 Skin Irrit. 2, H315; Skin Sens. 1, H317	
	oxirane, mono[(C12-14-alkyloxy)methyl] derivs	10-25%
EINECS: 271-846-8	♦ Skin Irrit. 2, H315; Skin Sens. 1, H317	

· Additional information:

For the wording of the listed hazard phrases refer to section 16.

GISCODE: $RE\ 1$ (Part A+B)

SECTION 4: First aid measures

- · 4.1 Description of first aid measures
- · General information: Remove contaminated clothing immediately.
- · 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: 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:

Use fire extinguishing methods suitable to surrounding conditions.

Foam (alcohol resistant), carbon dioxide, powder, spray.

- · For safety reasons unsuitable extinguishing agents: 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: breathing protection with independent air supply.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

· 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).

· 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 Store in tightly closed containers in a cool, dry place.
- · 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 only in unopened original container.
- · Information about storage in one common storage facility:

Keep away from food, beverages and animal feedstocks.

- · 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.

· Additional information: The lists valid during the making were used as basis.

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- · 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.

- · Respiratory protection: Not required if good ventilation.
- · 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

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

Wear safety gloves made of nitrile rubber with a thickness < 0.4 mm (penetration time> 480 min - see also www.gisbau.de

· 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.

• Eye protection: Tightly sealed goggles • Body protection: Protective clothing.

SECTION 9: Physical and chemical properties

•	1 1	
9.1 Information on basic physical an	nd chemical properties	
General Information		
· Appearance:		
Form:	Fluid	
Colour:	According to product specification	
	According to product specification	
· Odour:	Characteristic	
· Odour threshold:	Not determined.	
· pH-value:	n.a.	
· Change in condition		
Melting point/freezing point:	Undetermined.	
Initial boiling point and boiling ra	nge: 205 °C	
· Flash point:	101 °C	

Initial botting point and botting range: 205		
iting.		
sent an explosion hazard.		

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· 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.	
· 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. After addition of the curing agent rapidly process because high temperatures in the curing can be achieved.

- · 10.4 Conditions to avoid No further relevant information available.
- · 10.5 Incompatible materials:

From strongly acidic and alkaline materials as well as oxidizers away in order to avoid exothermic reactions.

· 10.6 Hazardous decomposition products:

At high temperatures may form: carbon dioxide, carbon monoxide, smoke and nitrogen oxides.

SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

Acute oral toxicity

Very low oral toxicity. Harmful effects are produced if small amounts are swallowed not expected.

As a product. Oral LD50 (single dose) has not been determined. Based on Information for component (s):

LD50, rat, > 10,000 mg / kg (estimated)

Acute dermal toxicity

Skin resorption of harmful amounts is unlikely after prolonged exposure.

As a product. Dermal LD50: not determined. Based on information for component (s):

LD50, rabbit, > 5,000 mg / kg (estimated)

Acute inhalation toxicity

Excessive exposure may cause upper respiratory tract irritation.

The LC50 has not been determined

- · Acute toxicity Based on available data, the classification criteria are not met.
- 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.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.

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· Aspiration hazard Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

· 12.1 Toxicity

2,2 '- ((1-methylethylidene) bis (4,1-phenyleneoxymethylene)) bis-oxirane

Acute fish toxicity

The product is toxic to aquatic organisms (LC50 / EC50 / IC50 between 1 and 10 mg/l for the most sensitive Species).

LC50, Oncorhynchus mykiss (rainbow trout), semi-static test, 96 h, 2 mg/l

Acute toxicity to aquatic invertebrates

EC50, Daphnia magna (Big water flea), static test, 48 h, 1.8 mg/l

Acute toxicity to algae / aquatic plants

ErC50, Scenedesmus capricornutum (freshwater algae), static test, 72 h, growth rate inhibition,

11 mg/l

Toxicity to bacteria

IC50, bacteria, 18 h,> 42.6 mg/l

Chronic toxicity to aquatic invertebrates

MATC value (Maximum Acceptable Toxicant Level), Daphnia magna (Large water flea), semi-static

Test, 21 d, number of offspring, 0.55 mg/l

Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol

Acute fish toxicity

The product is toxic to aquatic organisms (LC50/EC50/IC50 between 1 and 10 mg/l for the most sensitive Species).

LC50, freshwater fish, 96 h, 2.54 mg/l

Acute toxicity to aquatic invertebrates

EC50, Daphnia magna, Static, 48 h,> 1,000 mg/l, OECD Test Guideline 202 or equivalent

Acute toxicity to algae / aquatic plants

EC50, Selenastrum capricornutum (green algae), static, 72 h,> 1.8 mg/l, OECD test guideline 201

Toxicity to bacteria

Activated sludge, static, 3 h, other, > 100 mg/l

Chronic toxicity to aquatic invertebrates

NOEC, Daphnia magna, semi-static test, 21 d, number of offspring, 0.3 mg/l

Oxirane, mono [(C12-14-alkyloxy) methyl] derivatives

Acute fish toxicity

The material is not harmful to aquatic organisms (LC50 / EC50 / IC50 / LL50 / EL50 > 100 mg / L for the most sensitive species).

LC50, Oncorhynchus mykiss (rainbow trout), static test, 96 h,> 5,000 mg/l

LC50, Lepomis macrochirus (blue sunfish), static test, 96 h, 1,800 mg/l, other guidelines

Acute toxicity to algae / aquatic plants

EbC50, Pseudokirchneriella subcapitata (green algae), 72 h, growth inhibition (reduction in

Cell density), 843 mg/l

NOEC, Pseudokirchneriella subcapitata (green algae), 72 h, growth inhibition (reduction in

Cell density), 500 mg/l

Toxicity to bacteria

EC50, activated sludge, static test, 3 h, breathing rate., > 100 mg/l

- · Aquatic toxicity: No further relevant information available.
- · 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential 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.

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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

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 dangerous substances
- · Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.

14.1 UN-Number	11112002
ADR, IMDG, IATA	UN3082
14.2 UN proper shipping name	
ADR	3082 ENVIRONMENTALLY HAZARDOUS SUBSTANC
	LIQUID, N.O.S. (reaction product: bisphenol- (epichlorhydrin) epoxy resin (number average molecul
	weight = 700))
IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANC
	LIQUID, N.O.S. (bis[4-(2,3-epoxypropoxy)pheny
	propane, formaldehyde, oligomeric reaction products wi
	1-chloro-2,3-epoxypropane and phenol), MARIN
IATA	POLLUTANT
IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANC LIQUID, N.O.S. (bis[4-(2,3-epoxypropoxy)pheny
	propane, formaldehyde, oligomeric reaction products w
	1-chloro-2,3-epoxypropane and phenol)
14.3 Transport hazard class(es) ADR, IMDG, IATA	
9	
Class	9 Miscellaneous dangerous substances and articles.
	9 Miscellaneous dangerous substances and articles. 9
Label	9
Label 14.4 Packing group	<u> </u>
Label 14.4 Packing group ADR 14.5 Environmental hazards:	9 III
Label 14.4 Packing group ADR 14.5 Environmental hazards: Marine pollutant:	9 III Symbol (fish and tree)
Label 14.4 Packing group ADR 14.5 Environmental hazards: Marine pollutant: Special marking (ADR):	9 III Symbol (fish and tree) Symbol (fish and tree)
Label 14.4 Packing group ADR 14.5 Environmental hazards: Marine pollutant:	9 III Symbol (fish and tree)
Label 14.4 Packing group ADR 14.5 Environmental hazards: Marine pollutant: Special marking (ADR):	9 III Symbol (fish and tree) Symbol (fish and tree)

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· Hazard identification number (Kemler code):	90
· Stowage Category	A
· 14.7 Transport in bulk according to Annex II o	of .
Marpol and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADR	
· 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
· Transport category	3
· Tunnel restriction code	E
· UN "Model Regulation":	UN3082, ENVIRONMENTALLY HAZARDOU
8	SUBSTANCE, LIQUID, N.O.S. (reaction product
	bisphenol-A-(epichlorhydrin) epoxy resin (number average
	molecular weight = 700)), 9, III

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- · 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

For activities involving exposure to uncured epoxy resins and contact via the skin or the respiratory tract regular preventive medical examinations must be initiated.

The product is subject to Directive 2004/42/EC.

EU limit value for the VOC content of this product in ready to use: cat A/j 140 g/l (2010).

The product contains a ready to use product: 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

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.

· 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 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

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CAS: Chemical Abstracts Service (division of the American Chemical Society)

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