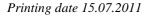
Safety data sheet according to 1907/2006/EC, Article 31



Printing date 15.07.2011

Revision: 15.07.2011

| Product identifier Trade name: <u>HADALAN LF 51/HADALAN LF 51 12E, Komp. B</u> Article number: 50211 B Relevant identified uses of the substance or mixture and uses advised against Application of the substance / the preparation Solvent-free, 2-component water thinnable epoxy resin coating for floor and wal outdoors-part B Details of the supplier of the safety data sheet Manufacturer/Supplier: Heinrich Hahne GmbH & Co. KG Heinrich-Hahne-Weg 11 | ll surfaces indoors ar |
|---|------------------------|
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| Details of the supplier of the safety data sheet Manufacturer/Supplier: Heinrich Hahne GmbH & Co. KG | |
| Manufacturer/Supplier: Heinrich Hahne GmbH & Co. KG | |
| | |
| 45711 Datteln | Tel.:02363/5663 |
| Further information obtainable from: Abteilung: Produktsicherheit Tel.: 02363 5663-0 | |
| EMail: info@hahne-bautenschutz.de Emergency telephone number: Giftinformationszentrum Nord (GIZ Nord) Universität Göttingen, Tel.: 0551-19240 | |
| | |
| XL \ | |
| <i>GHS09 environment</i> Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects. | |
| \checkmark | |
| Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects. | |
| Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects. | |
| Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects. GHS07 Skin Irrit. 2 H315 Causes skin irritation. | |
| Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects. 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. Classification according to Directive 67/548/EEC or Directive 1999/45/EC Xi Irritant N Dangerous for the environment Hazard description: | |
| Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects. | |
| Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects. | |



Revision: 15.07.2011

(Contd. of page 1)

Bautenschutz System

Trade name: HADALAN LF 51/HADALAN LF 51 12E, Komp. B

· Label elements

· Labelling according to EU guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

· Code letter and hazard designation of product:



Xi Irritant N Dangerous for the environment

• *Hazard-determining components of labelling:* reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number averagemolecular weight = 700) Bisphenol-F Epichlorhydrinharz Reaktionspr.Phenol-Formaldehyd Novolak mit Epichlorhydrin oxirane, mono[(C12-14-alkyloxy)methyl] derivs

· Risk phrases:

- *36/38 Irritating to eyes and skin.*
- 43 May cause sensitisation by skin contact.
- 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

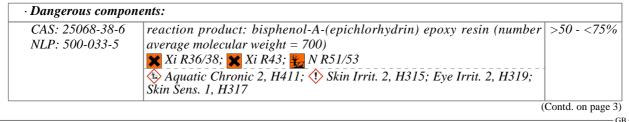
· Safety phrases:

- 24/25 Avoid contact with skin and eyes.
- 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- 27 Take off immediately all contaminated clothing.
- 29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.
- 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
- 46 If swallowed, seek medical advice immediately and show this container or label.
- · Special labelling of certain preparations: Contains epoxy constituents. May produce an allergic reaction.
- Other hazards
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · **vPvB:** Not applicable.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Description: Compount of following substances with innocuous constituents.





Printing date 15.07.2011

Revision: 15.07.2011

Trade name: HADALAN LF 51/HADALAN LF 51 12E, Komp. B

| | | (Contd. of page 2) |
|-------------------|--|--------------------|
| CAS: 68609-97-2 | oxirane, mono[(C12-14-alkyloxy)methyl] derivs | >10 - <20% |
| EINECS: 271-846-8 | 🗙 Xi R38; 🗙 Xi R43 | |
| | 🚸 Skin Irrit. 2, H315; Skin Sens. 1, H317 | |
| CAS: 28064-14-4 | Bisphenol-F Epichlorhydrinharz Reaktionspr. Phenol-Formaldehyd | >10 - <20% |
| | Novolak mit Epichlorhydrin | |
| | 🗙 Xi R36/38; 🗙 Xi R43; 🏪 N R51/53 | |
| | 🚯 Aquatic Chronic 2, H411; 🚸 Skin Irrit. 2, H315; Eye Irrit. 2, H319; | |
| | Škin Šens. 1, H317 | |
| | Xi R36/38; Xi R43; Zi R43; R N R51/53 Xi R43; R R51/53 Aquatic Chronic 2, H411; 🗘 Skin Irrit. 2, H315; Eye Irrit. 2, H319; | |

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

4 First aid measures

- · Description of first aid measures
- · 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.

5 *Firefighting measures*

- · Extinguishing media
- Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- · Advice for firefighters
- · Protective equipment: In case of fire: breathing protection with independent air supply.

6 Accidental release measures

- *Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.*
- 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.
- *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.
- *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

- · Handling:
- · Precautions for safe handling Only store in original containers.
- Information about fire and explosion protection: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: Keep cool and dry.

(Contd. on page 4)

GB

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

Printing date 15.07.2011

hahne Bautenschutz Systeme

Revision: 15.07.2011

Trade name: HADALAN LF 51/HADALAN LF 51 12E, Komp. B

• *Information about storage in one common storage facility:* Store separate from eatables. • *Further information about storage conditions:* Protect from frost. (Contd. of page 3)

8 Exposure controls/personal protection

• Additional information about design of technical facilities: No further data; see item 7.

- · Ingredients with limit values that require monitoring at the workplace:
- · Additional information: The lists valid during the making were used as basis.
- · 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.
- · 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.

· 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

9 Physical and chemical properties

| General Information | | |
|------------------------------|---|--|
| Appearance: Form: | Fluid | |
| Colour: | According to product specification | |
| Odour: | Characteristic | |
| pH-value: | n.a. | |
| Change in condition | | |
| Melting point/Melting range: | Undetermined. | |
| Boiling point/Boiling range: | | |
| Flash point: | 140°C | |
| Ignition temperature: | 450°C | |
| Self-igniting: | Product is not selfigniting. | |
| Danger of explosion: | Product does not present an explosion hazard. | |
| Vapour pressure at 50°C: | < 5 hPa | |

GB

[·] Control parameters

Page 5/7

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

Printing date 15.07.2011

Revision: 15.07.2011

Trade name: HADALAN LF 51/HADALAN LF 51 12E, Komp. B

| | (Contd. of page 4) | |
|---|-----------------------------------|--|
| • Density at 20°C: | 1.12 g/cm ³ | |
| · Solubility in / Miscibility with water: | Not miscible or difficult to mix. | |
| · Viscosity: Dynamic at 20°C: | 1000 mPas | |

10 Stability and reactivity

- · Reactivity
- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Hazardous decomposition products: x

11 Toxicological information

· Information on toxicological effects

- Acute toxicity:
- · Primary irritant effect:
- \cdot on the skin: Irritant to skin and mucous membranes.
- on the eye: Irritating effect.
- \cdot Sensitization: Sensitization possible through skin contact.
- · 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

12 Ecological information

- · Toxicity
- Acquatic toxicity: No further relevant information available.
- · Additional ecological information:
- · General notes:
- Also poisonous for fish and plankton in water bodies.
- 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.

- Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· European waste catalogue

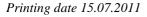
08 01 11 waste paint and varnish containing organic solvents or other dangerous substances

(Contd. on page 6)



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





Revision: 15.07.2011

Trade name: HADALAN LF 51/HADALAN LF 51 12E, Komp. B

(Contd. of page 5)

· Uncleaned packaging:

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

| ADR/RID class: 9 Miscellaneous dangerous substances and articles. Danger code (Kemler): 90 UN-Number: 3082 Packaging group: III Hazard label 9 Maritime transport IMDG: IMDG Class: 9 UN Number: 3082 Label 9 Packaging group: III Marine pollutant: No Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reactio product, oxirane, mono[(C12-14-alkyloxy)methyl] derivs) Air transport ICAO-TT and IATA-DGR: ICAO/IATA Class: 9 UN/ID Number: 3082 Label 9 Packaging group: III | Land transport ADR/RID (cross-border) | | | | |
|---|---------------------------------------|--|--|--|--|
| · UN-Number: 3082 · Packaging group: III · Hazard label 9 · Maritime transport IMDG: | • ADR/RID class: | 9 Miscellaneous dangerous substances and articles. | | | |
| Packaging group: III Hazard label 9 · Maritime transport IMDG: | · Danger code (Kemler |) : 90 | | | |
| Hazard label 9 • Maritime transport IMDG: • IMDG Class: 9 • UN Number: 3082 • Label 9 • Packaging group: III • Maritime pollutant: No • Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reactio product, oxirane, mono[(C12-14-alkyloxy)methyl] derivs) • Air transport ICAO-TI and IATA-DGR: 9 • UN/ID Number: 3082 • Label 9 | · UN-Number: | 3082 | | | |
| • Maritime transport IMDG: • IMDG Class: 9 • UN Number: 3082 • Label 9 • Packaging group: III • Marine pollutant: No • Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reactio product, oxirane, mono[(C12-14-alkyloxy)methyl] derivs) • Air transport ICAO-TI and IATA-DGR: 9 • UN/ID Number: 3082 • Label 9 | • Packaging group: | 111 | | | |
| · IMDG Class: 9 · UN Number: 3082 · Label 9 · Packaging group: III · Marine pollutant: No · Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reactio product, oxirane, mono[(C12-14-alkyloxy)methyl] derivs) · Air transport ICAO-TI and IATA-DGR: 9 · UN/ID Number: 3082 · Label 9 | · Hazard label | 9 | | | |
| · UN Number: 3082 · Label 9 · Packaging group: III · Marine pollutant: No · Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reactio product, oxirane, mono[(C12-14-alkyloxy)methyl] derivs) · Air transport ICAO-TI and IATA-DGR: · ICAO/IATA Class: · UN/ID Number: 3082 · Label 9 | • Maritime transport Il | MDG: | | | |
| Label 9 Packaging group: III Marine pollutant: No Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reactio product, oxirane, mono[(C12-14-alkyloxy)methyl] derivs) Air transport ICAO-TI and IATA-DGR: ICAO/IATA Class: 9 UN/ID Number: 3082 Label 9 | · IMDG Class: | 9 | | | |
| Packaging group: III Marine pollutant: No Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reactio product, oxirane, mono[(C12-14-alkyloxy)methyl] derivs) Air transport ICAO-TI and IATA-DGR: ICAO/IATA Class: 9 UN/ID Number: 3082 Label 9 | · UN Number: | 3082 | | | |
| Marine pollutant: No Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product, oxirane, mono[(C12-14-alkyloxy)methyl] derivs) Air transport ICAO-TI and IATA-DGR: ICAO/IATA Class: 9 UN/ID Number: 3082 Label 9 | · Label | 9 | | | |
| • Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reactio product, oxirane, mono[(C12-14-alkyloxy)methyl] derivs) • Air transport ICAO-TI and IATA-DGR: • ICAO/IATA Class: 9 • UN/ID Number: 3082 • Label 9 | · Packaging group: | 111 | | | |
| product, oxirane, mono[(C12-14-alkyloxy)methyl] derivs) • Air transport ICAO-TI and IATA-DGR: • ICAO/IATA Class: 9 • UN/ID Number: 3082 • Label 9 | • Marine pollutant: | No | | | |
| · ICAO/IATA Class: 9 · UN/ID Number: 3082 · Label 9 | · Proper shipping nam | | | | |
| • UN/ID Number: 3082 • Label 9 | · Air transport ICAO-1 | 'I and IATA-DGR: | | | |
| Label 9 | · ICAO/IATA Class: | 9 | | | |
| | · UN/ID Number: | 3082 | | | |
| · Packaging group: III | · Label | 9 | | | |
| | · Packaging group: | III | | | |

• Special precautions for user Warning: Miscellaneous dangerous substances and articles.

15 Regulatory information

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

· National regulations:

- Waterhazard class: Water hazard class 2 (Self-assessment): hazardous for water.
- · 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

- 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.
- R36/38 Irritating to eyes and skin.
- 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.

(Contd. on page 7)



Revision: 15.07.2011

(Contd. of page 6)

Printing date 15.07.2011

Trade name: HADALAN LF 51/HADALAN LF 51 12E, Komp. B

• Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Reglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

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