

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

Printing date 02.03.2021

Revision: 26.02.2021

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

- **1.1 Product identifier**
- **Trade name:** HADALAN PUR Floor-H 13P, Komp. B
- **Article number:** 40639B
- **UFI:** U690-A0MS-000F-MRJM
- **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** 2-komponentige PU-Beschichtung
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Sievert Baustoffe GmbH & Co. KG
Mühlenschweg 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**



GHS08 health hazard

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Carc. 2 H351 Suspected of causing cancer.
STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.



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.
STOT SE 3 H335 May cause respiratory irritation.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.

(Contd. on page 2)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 02.03.2021

Revision: 26.02.2021

Trade name: **HADALAN PUR Floor-H 13P, Komp. B**

(Contd. of page 1)

· Hazard pictograms



GHS07 GHS08

· Signal word *Danger*

· Hazard-determining components of labelling:

*diphenylmethanediisocyanate, isomeres and homologues**diphenylmethane-4,4'-di-isocyanate**diphenylmethane-2,4'-diisocyanate**diphenylmethane-2,2'-diisocyanate*

· Hazard statements

*H315 Causes skin irritation.**H319 Causes serious eye irritation.**H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.**H317 May cause an allergic skin reaction.**H351 Suspected of causing cancer.**H335 May cause respiratory irritation.**H373 May cause damage to organs through prolonged or repeated exposure.*

· Precautionary statements

*P260 Do not breathe dust/fume/gas/mist/vapours/spray.**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/hearing protection.**P304+P312 IF INHALED: Call a POISON CENTER/doctor if you feel unwell.**P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.*

· Additional information:

Contains isocyanates. 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: *Isocyanat-Komponente.*

· Dangerous components:

CAS: 9016-87-9	<i>diphenylmethanediisocyanate, isomeres and homologues</i> ⚠ Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; ⚠ Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	50-100%
CAS: 101-68-8 EINECS: 202-966-0	<i>diphenylmethane-4,4'-di-isocyanate</i> ⚠ Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; ⚠ Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	10-25%

(Contd. on page 3)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 02.03.2021

Revision: 26.02.2021

Trade name: HADALAN PUR Floor-H 13P, Komp. B

		(Contd. of page 2)
CAS: 5873-54-1 EINECS: 227-534-9	diphenylmethane-2,4'-diisocyanate ⚠ Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; ⚠ Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	2.5-10%
CAS: 2536-05-2 EINECS: 219-799-4	diphenylmethane-2,2'-diisocyanate ⚠ Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; ⚠ Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	<2.5%

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

SECTION 4: First aid measures

· 4.1 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.

· 4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

· 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.

Schaum (alkoholbeständig), Kohlendioxid, Pulver, Sprühnebel (Wasser).

· 5.2 Special hazards arising from the substance or mixture

During heating or in case of fire poisonous gases are produced.

Das Einatmen gefährlicher Zerstörungsprodukte kann ernste Gesundheitsschäden verursachen.

· 5.3 Advice for firefighters

· Protective equipment: Mount respiratory protective device.

· Additional information Löschwasser nicht in die Kanalisation gelangen lassen.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Mount respiratory protective device.

· 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:

Dispose contaminated material as waste according to item 13.

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.

GB

(Contd. on page 4)

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

Printing date 02.03.2021

Revision: 26.02.2021

Trade name: **HADALAN PUR Floor-H 13P, Komp. B**

(Contd. of page 3)

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace.
- **Information about fire - and explosion protection:** Keep respiratory protective device available.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Gebinde dicht geschlossen bei 5°C bis 30°C halten.
- **Information about storage in one common storage facility:**
Von Nahrungsmitteln, Getränken und Futtermitteln fernhalten.
- **Further information about storage conditions:**
Stets in Originalgebinde aufbewahren. Vor Hitze und direkter Sonneneinstrahlung schützen.
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Additional information about design of technical facilities:** No further data; see item 7.

· **Ingredients with limit values that require monitoring at the workplace:**

9016-87-9 diphenylmethanediisocyanate, isomeres and homologues (50-100%)

WEL Short-term value: 0.07 mg/m³
Long-term value: 0.02 mg/m³
Sen; as -NCO

101-68-8 diphenylmethane-4,4'-di-isocyanate (10-25%)

WEL Short-term value: 0.07 mg/m³
Long-term value: 0.02 mg/m³
Sen; as -NCO

5873-54-1 diphenylmethane-2,4'-diisocyanate (2.5-10%)

WEL Short-term value: 0.07 mg/m³
Long-term value: 0.02 mg/m³
Sen; as -NCO

2536-05-2 diphenylmethane-2,2'-diisocyanate (<2.5%)

WEL Short-term value: 0.07 mg/m³
Long-term value: 0.02 mg/m³
Sen; as -NCO

· **Ingredients with biological limit values:**

101-68-8 diphenylmethane-4,4'-di-isocyanate (10-25%)

BMGV 1 µmol creatinine/mol
Medium: urine
Sampling time: At the end of the period of exposure
Parameter: isocyanate-derived diamine

5873-54-1 diphenylmethane-2,4'-diisocyanate (2.5-10%)

BMGV 1 µmol creatinine/mol
Medium: urine
Sampling time: At the end of the period of exposure
Parameter: isocyanate-derived diamine

2536-05-2 diphenylmethane-2,2'-diisocyanate (<2.5%)

BMGV 1 µmol creatinine/mol
Medium: urine
Sampling time: At the end of the period of exposure
Parameter: isocyanate-derived diamine

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

(Contd. on page 5)

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

Printing date 02.03.2021

Revision: 26.02.2021

Trade name: **HADALAN PUR Floor-H 13P, Komp. B**

(Contd. of page 4)

- **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.
Store protective clothing separately.
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.
Geeignete Materialien für Schutzhandschuhe; EN 374:
Polychloropren - CR: Dicke · 0,5mm; Durchbruchzeit · 480min.
Nitrilkautschuk - NBR: Dicke · 0,35mm; Durchbruchzeit · 480min.
Butylkautschuk - IIR: Dicke · 0,5mm; Durchbruchzeit · 480min.
Fluorkautschuk - FKM: Dicke · 0,4mm; Durchbruchzeit · 480min.
Empfehlung: Kontaminierte Handschuhe entsorgen.
- **Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Tightly sealed goggles

SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

Form:	Fluid
Colour:	braun
Odour:	Characteristic
Odour threshold:	Not determined.
- **pH-value:** Not applicable.
- **Change in condition**

Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	190 °C
- **Flash point:** 111 °C
- **Flammability (solid, gas):** Not determined.
- **Ignition temperature:** 520 °C
- **Decomposition temperature:** Not determined.
- **Auto-ignition temperature:** Product is not selfigniting.
- **Explosive properties:** Product does not present an explosion hazard.
- **Explosion limits:**

Lower:	Not determined.
Upper:	Not determined.

(Contd. on page 6)

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

Printing date 02.03.2021

Revision: 26.02.2021

Trade name: **HADALAN PUR Floor-H 13P, Komp. B**

(Contd. of page 5)

· Vapour pressure:	Not applicable.
· Density at 20 °C:	1.24 g/cm ³
· Relative density	Not determined.
· Vapour density	Not applicable.
· Evaporation rate	Not applicable.
· Solubility in / Miscibility with water:	Insoluble.
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
· Solvent content:	
Solids content:	100.0 %
· 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:**
Keine Zersetzung bei bestimmungsgemäßer Verwendung.
Ab ca. 200 °C Polymerisation, CO₂-Abspaltung.
- **10.3 Possibility of hazardous reactions**
Exotherme Reaktion mit Aminen und Alkoholen; mit Wasser CO₂ - Entwicklung, in geschlossenen Behältern Druckaufbau; Berstgefahr
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:**
Vor stark sauren und alkalischen Materialien sowie Oxidationsmitteln fernhalten, um exotherme Reaktionen zu vermeiden.
- **10.6 Hazardous decomposition products:**
Bei hohen Temperaturen können Kohlendioxid, Kohlenmonoxid, Stickoxide entstehen.

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- Akute Toxizität, oral
- Diphenylmethandiisocyanat, Isomere und Homologe
LD50 Ratte, männlich/weiblich: > 10.000 mg/kg
Methode: OECD Prüfrichtlinie 401
- Diphenylmethan-4,4'-diisocyanat
LD50 Ratte, männlich/weiblich: > 2.000 mg/kg
Methode: Richtlinie 84/449/EWG, B.1
- Diphenylmethan-2,4'-diisocyanat
LD50 Ratte, männlich/weiblich: > 2.000 mg/kg
Methode: Richtlinie 84/449/EWG, B.1
- 2,2'-Methyldiphenyldiisocyanat
LD50 Ratte, männlich/weiblich: > 2.000 mg/kg
Methode: Richtlinie 84/449/EWG, B.1
- Toxikologische Untersuchungen an einem vergleichbaren Produkt.
- Akute Toxizität, dermal
- Diphenylmethandiisocyanat, Isomere und Homologe
LD50 Kaninchen, männlich/weiblich: > 9.400 mg/kg
Methode: OECD Prüfrichtlinie 402

(Contd. on page 7)

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

Printing date 02.03.2021

Revision: 26.02.2021

Trade name: HADALAN PUR Floor-H 13P, Komp. B

(Contd. of page 6)

Diphenylmethan-4,4'-diisocyanat

LD50 Kaninchen, männlich/weiblich: > 9.400 mg/kg

Methode: OECD Prüfrichtlinie 402

Diphenylmethan-2,4'-diisocyanat

LD50 Kaninchen, männlich/weiblich: > 9.400 mg/kg

Methode: OECD Prüfrichtlinie 402

2,2'-Methyldiphenyldiisocyanat

LD50 Kaninchen, männlich/weiblich: > 9.400 mg/kg

Methode: OECD Prüfrichtlinie 402

Akute Toxizität, inhalativ

ATEmix (inhal.): 1,5 mg/l, 4 h

Prüfatmosphäre: Staub/Nebel

Methode: Rechenmethode

Diphenylmethandiisocyanat, Isomere und Homologe

LC50 Ratte, männlich/weiblich: 0,31 mg/l, 4 h

Prüfatmosphäre: Staub/Nebel

Methode: OECD Prüfrichtlinie 403

Beurteilung: Gesundheitsschädlich bei Einatmen.

Umrechnungswert der akuten Toxizität 1,5 mg/l

Prüfatmosphäre: Staub/Nebel

Methode: Fachmännische Beurteilung

Diphenylmethan-4,4'-diisocyanat

LC50 Ratte, männlich: 0,368 mg/l, 4 h

Prüfatmosphäre: Staub/Nebel

Methode: OECD Prüfrichtlinie 403

Umrechnungswert der akuten Toxizität 1,5 mg/l

Prüfatmosphäre: Staub/Nebel

Methode: Fachmännische Beurteilung

Diphenylmethan-2,4'-diisocyanat

LC50 Ratte, männlich: 0,387 mg/l, 4 h

Prüfatmosphäre: Staub/Nebel

Umrechnungswert der akuten Toxizität 1,5 mg/l

Prüfatmosphäre: Staub/Nebel

Methode: Fachmännische Beurteilung

2,2'-Methyldiphenyldiisocyanat

LC50 Ratte, männlich: 0,527 mg/l, 4 h

Prüfatmosphäre: Staub/Nebel

Methode: OECD Prüfrichtlinie 403

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

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

9016-87-9 diphenylmethanediisocyanate, isomeres and homologues

Oral	LD50	>15,000 mg/kg (rat)
Inhalative	LC50/4 h	490 mg/l (rat)

· **Primary irritant effect:**

· **Skin corrosion/irritation**

Causes skin irritation.

· **Serious eye damage/irritation**

Causes serious eye irritation.

· **Respiratory or skin sensitisation**

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

· **Additional toxicological information:**

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

· **Germ cell mutagenicity** Based on available data, the classification criteria are not met.

· **Carcinogenicity**

Suspected of causing cancer.

· **Reproductive toxicity** Based on available data, the classification criteria are not met.

(Contd. on page 8)

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

Printing date 02.03.2021

Revision: 26.02.2021

Trade name: **HADALAN PUR Floor-H 13P, Komp. B**

(Contd. of page 7)

- **STOT-single exposure**
May cause respiratory irritation.
- **STOT-repeated exposure**
May cause damage to organs through prolonged or repeated exposure.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

· 12.1 Toxicity

Ratten wurden zwei Jahre lang einem atembaren Aerosol von Polymer-MDI ausgesetzt, das bei hohen Konzentrationen zu chronischer Lungenreizung führte. Nur in der höchsten Konzentration (6mg/m³) wurde eine signifikante Inzidenz eines gutartigen Lungentumors (Adenom) sowie ein bösartiger Tumor (Adenokarzinom) festgestellt. Bei 1 mg/m³ traten keine Lungentumore auf, bei 0,2 mg/m³ keine Wirkungen. Insgesamt unterschieden sich die Häufigkeit sowohl gutartiger als auch bösartiger Tumore und die Anzahl der Tiere mit Tumoren nicht von der Kontrolle. Die erhöhte Inzidenz von Lungentumoren steht mit der längeren Atemwegreizung und der damit einhergehenden Akkumulation von gelbem Material in der Lunge in Verbindung, was während der gesamten Studie festgestellt wurde. Wenn eine längere Exposition hohen Konzentrationen gegenüber nicht vorliegt, die zu chronischer Reizung und Lungenschäden führt, ist eine Tumorbildung äußerst unwahrscheinlich.

Mutagenität : Keine besonderen Wirkungen oder Gefahren bekannt.

Teratogenität : Keine besonderen Wirkungen oder Gefahren bekannt.

Auswirkungen auf die Entwicklung : In zwei unabhängigen Tierversuchen (Ratte) wurden keine Defekte an Neugeborenen festgestellt. Bei hohen Dosen, die für die Mutter extrem toxisch waren (einschließlich letal), wurde eine Foetotoxizität beobachtet. Bei maternal nicht toxischen Dosen wurde keine Foetotoxizität festgestellt. Bei den in diesen Versuchen verwendeten Dosen handelt es sich um maximale atembare Konzentrationen, die weit über den definierten MAK-Werten liegen.

- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.

· Other information:

Biologische Abbaubarkeit:

Diphenylmethandiisocyanat, Isomere und Homologe

0 % 28 d, d.h. nicht abbaubar

Methode: Respirometer-Test

Toxizität gegenüber Fischen: LC₀ > 1.000 mg/l

Testspezies: Brachydanio rerio (Zebrafisch) Prüfdauer: 96 h

Akute Daphnientoxizität: EC₅₀ > 1.000 mg/l

Testspezies: Daphnia magna (Großer Wasserfloh) Prüfdauer: 24 h

Akute Bakterientoxizität: EC₅₀ > 100 mg/l

Gepprüft an: Belebtschlamm Prüfdauer: 3 h

· 12.3 Bioaccumulative potential

Unter Berücksichtigung von Produktion und Gebrauch des Stoffes kann man davon ausgehen, daß keine signifikante Umweltbelastung von Luft oder Wasser auftreten wird. Nicht mit Wasser mischbar, reagiert jedoch mit Wasser und bildet inerte biologisch nicht abbaubare Festkörper. Die Umwandlung zu löslichen Produkten, einschließlich *Diamindiphenylmethan (MDA), verläuft unter optimalen Laborbedingungen guter Dispersion und niedriger Konzentration sehr langsam. In Luft ist der vorherrschende Abbauprozess nach Berechnung und analog zu verwandten Diisocyanaten wahrscheinlich ein relativ schneller OH-Radikalangriff. Im Vergleich zu einem analogen Produkt werden die folgenden Werte erwartet. Die gemessene Ökotoxizität bezieht sich auf das hydrolisierte Produkt unter Bedingungen, die für die Entstehung löslicher Arten besonders günstig sind. Selbst unter diesen Voraussetzungen ist die beobachtete Toxizität gering/sehr gering. Eine Teichstudie zeigte, daß eine starke Kontamination keine signifikanten toxischen Wirkungen auf eine breite Reihe von Pflanzen auf allen Tropieebenen (einschließlich Fische), kein erkennbares Diamindiphenylmethan (MDA) und keine Hinweise auf eine Bioakkumulation von MDI oder MDA zur Folge hatte.

- **12.4 Mobility in soil** No further relevant information available.

(Contd. on page 9)

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

Printing date 02.03.2021

Revision: 26.02.2021

Trade name: HADALAN PUR Floor-H 13P, Komp. B

(Contd. of page 8)

- **Additional ecological information:**
- **General notes:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **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 hazardous substances |
|-----------|---|
- **Uncleaned packaging:**
 - **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

- | | |
|--|-----------------|
| · 14.1 UN-Number | Void |
| · ADR, ADN, IMDG, IATA | Void |
| · 14.2 UN proper shipping name | Void |
| · ADR, ADN, IMDG, IATA | Void |
| · 14.3 Transport hazard class(es) | Void |
| · ADR, ADN, IMDG, IATA | Void |
| · Class | Void |
| · 14.4 Packing group | Void |
| · ADR, IMDG, IATA | Void |
| · 14.5 Environmental hazards: | |
| · Marine pollutant: | No |
| · 14.6 Special precautions for user | Not applicable. |
| · 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code | Not applicable. |
| · UN "Model Regulation": | Void |

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.
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 56a, 56b, 56c, 74
- **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**
None of the ingredients is listed.

(Contd. on page 10)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 02.03.2021

Revision: 26.02.2021

Trade name: HADALAN PUR Floor-H 13P, Komp. B

(Contd. of page 9)

· **National regulations:**

· **Technical instructions (air):**

Class	Share in %
I	100.0

· **Waterhazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

· **Other regulations, limitations and prohibitive regulations**

· **VOC (EU)**

The product is subject to RL 2004/42 / EG.

EU limit value for this product is in the ready-to-use condition: Cat. A / j 140 g / l (2010). The product when used, contains: 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**

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.

H351 Suspected of causing cancer.

H373 May cause damage to organs through prolonged or repeated exposure.

· **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

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 4: Acute toxicity - inhalation – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Resp. Sens. 1: Respiratory sensitisation – Category 1

Skin Sens. 1: Skin sensitisation – Category 1

Carc. 2: Carcinogenicity – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2