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

nting date 25.06.2020	Revision: 25.06.202
SECTION 1: Identification of the substance/mixture an	d of the company/undertaking
1.1 Product identifier	
Trade name: <u>HADALAN LF68 12P</u>	
 Article number: 40233 UF1: RN40-H01Q-S007-JNP6 1.2 Relevant identified uses of the substance or mixture and uses and No further relevant information available. Application of the substance / the mixture Single component, solvent-free polyurethane resin for interior and existence and decorative quartz coatings. 	
 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 GHS07	
Acute Tox. 4 H332 Harmful if inhaled.	
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 regulatio Hazard pictograms 	on.



· Signal word Warning

• *Hazard-determining components of labelling: Hexamethylendiisocyanat-Oligomer hexamethylene diisocyanate*

· Hazard statements H332 Harmful if inhaled. H317 May cause an allergic skin reaction.

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H335 May cau	se respiratory irritation.
· Precautionary	statements
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of water.
P304+P312	IF INHALED: Call a POISON CENTER/doctor if you feel unwell.
P305+P351+P	2338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
• Additional info	prmation:
Contains isocy	anates. May produce an allergic reaction.
· 2.3 Other haza	rds
· Results of PBT	and vPvB assessment
· PBT: Not appl	icable.
D. P. Not ann	lieghle

· vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Chemical characterisation: Mixtures

· Description: Preparation based on aliphatic polyisocyanates

· Dangerous components:		
	Hexamethylendiisocyanat-Oligomer	50-100%
	() Acute Tox. 4, H332; Skin Sens. 1, H317; STOT SE 3, H335	
	hexamethylene diisocyanate	< 0.25%
EINECS: 212-485-8	 Acute Tox. 3, H311; Acute Tox. 1, H330; Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335 	

• Additional information:

For the wording of the listed hazard phrases refer to section 16. Hexamethylen-1,6-diisocyanat Homopolymer EG-Nr.: 500-060-2 REACH Registrierungsnummer: 01-2119485796-17-0000, 01-2119485796-17-0001 CAS-Nr.: 28182-81-2 Hexamethylen-1,6-diisocyanat INDEX-Nr.: 615-011-00-1 REACH Registrierungsnummer: 01-2119457571-37-0000 CAS-Nr.: 822-06-0 Spezifische Grenzkonzentrationen (GHS): Resp. Sens. 1 H334 > 0,5 % Skin Sens. 1 H317 > 0,5 % GISCODE: PU40

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. Then 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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\cdot 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, carbon dioxide, dry chemical, water fog, water spray jet.
- For safety reasons unsuitable extinguishing agents: water jet
- \cdot 5.2 Special hazards arising from the substance or mixture

In case of fire: formation of carbon monoxide, nitrogen oxides, isocyanate vapors and traces of hydrogen possible.

- 5.3 Advice for firefighters
- Protective equipment:
- Do not breathe fumes.

Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

 6.1 Personal precautions, protective equipment and emergency procedures Mount respiratory protective device.
 Keep unprotected persons away.
 Wear protective gloves, goggles and suitable protective clothing.
 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.

• 6.2 Environmental preclations: 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
- *Provide adequate ventilation in the workplace. Avoid contact with skin and eyes.*
- · 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 in a cool, dry place.
- Information about storage in one common storage facility: Store separate from eatables. • Further information about storage conditions:
- Open containers carefully to prevent closing by reaction with atmospheric moisture.
- 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.

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Ingredients with limit values that require monitoring at the workplace: 822-06-0 hexamethylene diisocyanate (< 0.25%)		
Additi	ional information: The lists valid during the making were used as basis.	
8.2 Ex	xposure controls	
	nal protective equipment:	
Gener	ral protective and hygienic measures:	
Immed	diately remove all soiled and contaminated clothing	
Wash	hands before breaks and at the end of work.	
Respi	ratory protection: Not required if good ventilation	
Protec	ction of hands: Suitable materials: butyl rubber, nitrile, PVC	
Mater	rial of gloves	
and v resista	election of the suitable gloves does not only depend on the material, but also on further marks of qualit aries from manufacturer to manufacturer. As the product is a preparation of several substances, th ance of the glove material can not be calculated in advance and has therefore to be checked prior to th cation.	
Penet	ration time of glove material	
The ex observ	xact break trough time has to be found out by the manufacturer of the protective gloves and has to b ved.	
Eve n	rotection: Goggles recommended during refilling	

9.1 Information on basic physical and chemical properties General Information		
Appearance:		
Form:	Fluid	
Colour:	yellowish, transparent	
Odour:	Characteristic	
Change in condition		
Melting point/freezing point:	Undetermined.	
Initial boiling point and boiling range:	Undetermined.	
Flash point:	160 °C	
Auto-ignition temperature:	Product is not selfigniting.	
Explosive properties:	Product does not present an explosion hazard.	
Density at 20 °C:	1.14 g/cm ³	
Solubility in / Miscibility with		
water:	Not miscible or difficult to mix.	
Viscosity:		
Dynamic at 20 °C:	400 mPas	
9.2 Other information	Reacts with water.	

SECTION 10: Stability and reactivity

• 10.1 Reactivity No further relevant information available.

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· 10.3 Possibility of hazardous reactions

Exothermic reactions with amines and alcohols. Reacts with water -CO2 development in containers, pressure build-up, risk of bursting.

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

• 10.5 Incompatible materials: No further relevant information available.

· 10.6 Hazardous decomposition products: No dangerous decomposition products.

SECTION 11: Toxicological information

· 11.1 Information on toxicological effects Hexamethylene-1,6-diisocyanate homopolymer LD50 for rats is > 5,000 mg/kgAcute toxicity, by inhalation: Hexamethylene-1,6-diisocyanate homopolymer: LC50 rat, male: 543 mg/m3, 4 h Method: OECD Test Guideline 403 LC50 rat, female: 390 mg/m3, 4 h Method: OECD Test Guideline 403 It was manufactured in a form (ie, special particle size distribution) tested which of the forms as they are marketed and used in all likelihood, is different. On the basis of the "split-entry" Concept and the available data on particle size during the end use of the substance, a modified classification of acute inhalation toxicity is warranted. Subacute, subchronic and prolonged toxicity: *Hexamethylene-1*, 6-diisocyanate homopolymer Route of administration: Subacute inhalation toxicity, rat Method: OECD Test Guideline 412 Test concentrations - 4.3, 14.7 and 89.8 mg of aerosol / m³ Exposure time - 3 weeks (6 hours per day, 5 days per week) 4.3 mg / m³ without compensation tolerated concentration (NOEL) 14.7 mg / m³ increase in lung weight, $89.8 \text{ mg} / \text{m}^3$ inflammatory changes in the respiratory tract. References to other organ damage other than the respiratory organs were raised. Genotoxicity in vitro: *Hexamethylene-1*, 6-diisocyanate homopolymer Test Type: Salmonella / microsome test (Ames test) Result: No evidence of a mutagenic effect. Method: OECD Test Guideline 471 Test Type: in vitro chromosome aberration test Result: negative Method: OECD Test Guideline 473 Test Type: point mutation in mammalian cells (HPRT test) Result: negative Method: OECD Test Guideline 476 For more information: *Hexamethylene-1*, 6-diisocyanate homopolymer Special properties / effects: Over-exposure - especially when spraying isocyanate paints without protection there is a risk of concentration-dependent irritation of eyes, nose, throat and respiratory tract. Delayed appearance of symptoms and development of hypersensitivity (difficult breathing, coughing, asthma) are possible. With hypersensitive people, reactions may be triggered at low isocyanate, also below the OEL. Prolonged contact with skin, tanning and irritating effects are possible. Animal experiments and other studies indicate that skin contact with Diisocyanates in isocyanate sensitization and respiratory reactions may play a role. · Acute toxicity Harmful if inhaled. · Primary irritant effect: · Skin corrosion/irritation slightly irritating

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- · Serious eye damage/irritation slightly irritating
- · 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

May cause respiratory irritation.

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

SECTION 12: Ecological information

· 12.1 Toxicity

toxicitv Acute toxicity to fish: Hexamethylene-1,6-diisocyanate homopolymer LC50 > 100 mg / lSpecies: Danio rerio (zebrafish) Exposure time: 96 h Method: OECD Test Guideline 203 Sample preparation because of the reactivity of the substance with water: Ultra turrax: 60 sec 8000 rpm, 24 magnetic stirrer; filtration. Acute daphnia: Hexamethylene-1, 6-diisocyanate homopolymer EC50 > 100 mg / lSpecies: Daphnia magna (water flea) *Exposure time: 48 h* Method: OECD Test Guideline 202 Sample preparation because of the reactivity of the substance with water: Ultra turrax: 60 sec 8000 rpm, 24 magnetic stirrer; filtration. Acute Toxicity to algae: Hexamethylene-1, 6-diisocyanate homopolymer IC50> 100 mg / l Tested on: Scenedesmus subspicatus Duration of test: 72 h Method: OECD Test Guideline 201 Sample preparation because of the reactivity of the substance with water: Ultra turrax: 60 sec 8000 rpm, 24 magnetic stirrer; filtration. Acute bacterial toxicity: Hexamethylene-1,6-diisocyanate homopolymer EC50> 1,000 mg / l Tested on: Activated Sludge Test time: 3 hours Method: OECD Test Guideline 209 · Aquatic toxicity: No further relevant information available. · 12.2 Persistence and degradability No further relevant information available. · 12.3 Bioaccumulative potential Biodegradation: 0%, 28 d, i.e. not readily biodegradable Method: OECD Guideline 301 C Additional information on ecotoxicology: The resin reacts with water at the interface with the formation of carbon dioxide to form a solid, high-melting and insoluble product (polyurea). this Reaction is accelerated by surfactants (eg detergents) or water-soluble Solvent strongly encouraged. Polyurea is inert Previous experience and not degradable. · 12.4 Mobility in soil No further relevant information available. · Ecotoxical effects: · Remark: Harmful to fish (Contd. on page 7)

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· Additional ecological information:

- · General notes:
- Harmful to aquatic organisms

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 informat	lon
· 14.1 UN-Number · ADR, ADN, IMDG, IATA	Void
· 14.2 UN proper shipping name · ADR	Void
ADK ADN, IMDG, IATA	Void
14.3 Transport hazard class(es)	
ADR, ADN, IMDG, IATA	
- Class	Void
14.4 Packing group	
ADR, IMDĞ, IATA	Void
14.5 Environmental hazards:	Not applicable.
14.6 Special precautions for user	Not applicable.
14.7 Transport in bulk according to Anne	ex II of
Marpol and the IBC Code	Not applicable.
Transport/Additional information:	Not classified as dangerous in the meaning of transpor regulations.
UN "Model Regulation":	Void

SECTION 15: Regulatory information

• 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture • REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

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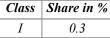
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· National regulations:

• Technical instructions (air):



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

H302 Harmful if swallowed.

H311 Toxic in contact with skin.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H330 Fatal if inhaled.

H332 Harmful if inhaled.

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

H335 May cause respiratory irritation.

• Recommended restriction of use

From the European Committee of Paint, Printing Ink and Artists' Colours producers - CEPE -

is given for isocyanate paints the following information: Ready paints containing isocyanates, may lead to irritation of the mucous membranes - particularly on the respiratory system -

and exercise cause hypersensitivity reactions. Inhalation of vapor or spray mist may cause sensitization. When dealing with isocyanates all precautions required for solvent-containing paints must be followed carefully. In particular, spray mist or vapors are not inhaled. Allergies, asthma, and people who are prone to respiratory ailments should not work with paints containing isocyanates can not be used.

· 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) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Acute Tox. 3: Acute toxicity - dermal - Category 3 Acute Tox. 1: Acute toxicity - inhalation - Category 1 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 STOT SE 3: Specific target organ toxicity (single exposure) - Category 3