SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II - Switzerland SikaCure®-4901 Part B



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

1.1 Product identifier

Product name : SikaCure®-4901 Part B

Product description : Sealants and adhesives.

1.2 Relevant identified uses of the substance or mixture and uses advised against

Not available.

1.3 Details of the supplier of the safety data sheet

Manufacturer/Distributor: SIKA Schweiz AGStreet/postbox: Tüffenwies 16Town/City and Post Code: 8048 ZürichCountry: SwitzerlandTelephone no.: +41584364040

Fax no. :

e-mail address of person responsible for this SDS

: EHS@ch.sika.com

Emergency telephone number : +41 (0) 79 309 06 29

Out of office hours only

1.4 Emergency telephone number

Supplier

Telephone number : +41 (0) 79 309 06 29

Out of office hours only

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Directive 1999/45/EC [DPD]

The product is classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification : Xi; R36

R43 R52/53

Human health hazards: Irritating to eyes. May cause sensitisation by skin contact.

Environmental hazards : Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

See Section 16 for the full text of the R phrases or H statements declared above. See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard symbol or symbols



Indication of danger : Irritant

Date of issue : 13.07.2011. MSDS no. : 112294-2 1/11

SikaCure®-4901 Part B 13.07.2011 2/11

SECTION 2: Hazards identification

Risk phrases : R36- Irritating to eyes.

R43- May cause sensitisation by skin contact.

R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the

aquatic environment.

Safety phrases : S24- Avoid contact with skin. S37- Wear suitable gloves.

Hazardous ingredients : Aliphatisches Polyisocyanat

Supplemental label : Contains isocyanate

elements

: Contains isocyanates. See information supplied by the manufacturer.

2.3 Other hazards

Other hazards which do not: Not available.

result in classification

SECTION 3: Composition/information on ingredients

Substance/mixture : Mixture

Chemical family/ : Polyisocyanate

Characteristics

		Classification		Туре
Product/ingredient name Identifiers	%	67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	
Aliphatisches Polyisocyanat CAS: 28182-81-2	>= 50 - < 75	R43	Skin Sens. 1, H317	[1]
Propylencarbonat EC: 203-572-1 CAS: 108-32-7 Index: 607-194-00-1	>= 10 - < 20	Xi; R36	Eye Irrit. 2, H319	[1]
Polyethoxytridecyletherphosphat CAS: 9046-01-9	>= 2.5 - < 5	Xi; R41, R38 N; R51/53	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 2, H411	[1]
Cyclohexyldimethylamin EC: 202-715-5 CAS: 98-94-2	>= 0.25 - < 1	R10 Xn; R20/21/22 C; R34 N; R51/53	Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 3, H311 Acute Tox. 4, H332 Skin Corr. 1B, H314 Aquatic Chronic 2, H411	[1]
Hexamethylen-1,6-diisocyanat EC: 212-485-8 CAS: 822-06-0 Index: 615-011-00-1	<0.5	T; R23 Xi; R36/37/38 R42/43	Acute Tox. 3, H331 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 STOT SE 3, H335	[1]
		See section 16 for the full text of the R-phrases declared above	See Section 16 for the full text of the H statements declared above.	

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs or vPvBs or have been assigned a workpla exposure limit and hence require reporting in this section.

Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

Occupational exposure limits, if available, are listed in Section 8.

Date of issue : 13.07.2011. MSDS no. : 112294-2 2/11

SikaCure®-4901 Part B 13.07.2011 3/11

SECTION 3: Composition/information on ingredients

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower

eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10

minutes. Get medical attention.

Inhalation : Get medical attention if adverse health effects persist or are severe.

Skin contact : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoe

Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention if symptoms occur.

Do not induce vomiting unless directed to do so by medical personnel. Maintain an

Ingestion: open airway. Seek immediate medical attention.

No action shall be taken involving any personal risk or without suitable training. It may

Protection of first-aiders: be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash

contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

Eye contact : Irritating to eyes.

Inhalation: Exposure to decomposition products may cause a health hazard. Serious effects

may be delayed following exposure.

Skin contact: May cause sensitisation by skin contact.

Ingestion: No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact: Adverse symptoms may include the following:

irritation watering redness

Inhalation : No specific data.

Skin contact: Adverse symptoms may include the following:

irritation redness

Ingestion: No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed.

The exposed person may need to be kept under medical surveillance for 48 hours.

Specific treatments: No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing

: Use dry chemical, CO₂, water spray (fog) or foam.

media

Unsuitable extinguishing

media

: None known.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture

: In a fire or if heated, a pressure increase will occur and the container may burst.

Date of issue : 13.07.2011. MSDS no. : 112294-2 3/11

SikaCure®-4901 Part B 13.07.2011 4/11

SECTION 5: Firefighting measures

Hazardous thermal decomposition products

: Decomposition products may include the following materials: carbon dioxide

carbon dioxide carbon monoxide nitrogen oxides phosphorus oxides metal oxide/oxides

5.3 Advice for firefighters

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. This material is harmful to aquatic organisms. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders

: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also Section 8 for additional information on hygiene measures.

6.2 Environmental precautions

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material.

6.3 Methods and materials for containment and cleaning up

Small spill

: Stop leak if without risk. Move containers from spill area. Absorb with an inert material and place in an appropriate waste disposal container.

Large spill

: Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13).

6.4 Reference to other sections

: See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures

: Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous.

Date of issue : 13.07.2011. MSDS no. : 112294-2 4/11

SikaCure®-4901 Part B 13.07.2011 5/11

SECTION 7: Handling and storage

Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

7.3 Specific end use(s)

Recommendations
Industrial sector specific solutions

Not available.Not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
	SUVA (Switzerland, 1/2009). Skin sensitiser. Notes: Als NCO berechnet definitive Festlegung Kurzzeitgrenzwerte: 0.02 mg/m³, (Als NCO berechnet) 15 minute(s). MAK-Wert: 0.02 mg/m³, (Als NCO berechnet) 8 hour(s).

Recommended monitoring procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.

Derived effect levels

No DELs available.

Predicted effect concentrations

No PECs available.

8.2 Exposure controls

Appropriate engineering controls

: Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

Individual protection measures

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.

Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.

Skin protection

Date of issue : 13.07.2011. MSDS no. : 112294-2 5/11

SikaCure®-4901 Part B 13.07.2011 6/11

SECTION 8: Exposure controls/personal protection

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Reference number EN 374. Suitable for short time use or protection against splashes: Butyl rubber/nitrile rubber gloves. (0,4 mm), breakthrough time <30 min. Contaminated gloves should be removed. Suitable for permanent exposure: Viton gloves (0.4 mm), breakthrough time >30 min.

Body protection

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: Use barrier skin cream.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

: No special measures required.

Environmental exposure

controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state : Liquid. Colour Various. Odour : Characteristic. **Odour threshold** Not available. : Not available. Melting point/freezing point : Not available. Initial boiling point and boiling : Not available.

range

: Closed cup: 123°C Flash point

Evaporation rate : Not available. Flammability (solid, gas) Not available. **Burning time** : Not applicable. **Burning rate** : Not applicable. Upper/lower flammability or : Not available.

explosive limits

Not available.

Vapour pressure Vapour density : Not available.

Density ~1.2 g/cm³ [20°C (68°F)]

Relative density : Not available. Solubility(ies) Not available. Partition coefficient: n-: Not available.

octanol/water

Auto-ignition temperature : Not available. **Decomposition temperature** Not available.

Viscosity : Dynamic: 700 mPa·s

: Not available. **Explosive properties** : Not available. **Oxidising properties**

9.2 Other information

No additional information.

: 13.07.2011. 6/11 Date of issue **MSDS no.** : 112294-2

SikaCure®-4901 Part B 13.07.2011 7/11

SECTION 10: Stability and reactivity

10.1 Reactivity : No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability : The product is stable.

reactions

10.3 Possibility of hazardous: Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid : No specific data.

10.5 Incompatible materials : No specific data.

: Under normal conditions of storage and use, hazardous decomposition products decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

10.6 Hazardous

Product/ingredient name	Result	Species	Dose	Exposure
Propylencarbonat	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
Cyclohexyldimethylamin	LD50 Dermal	Rat	370 mg/kg	-
	LD50 Oral	Rat	348 mg/kg	-

Conclusion/Summary : Not available.

Irritation/Corrosion

Conclusion/Summary : Not available.

Sensitisation

Conclusion/Summary : Not available.

Mutagenicity

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

: Not available. Conclusion/Summary

Teratogenicity

Conclusion/Summary : Not available.

Information on the likely

routes of exposure

: Not available.

Potential acute health effects

Eye contact : Irritating to eyes. Inhalation : May cause irritation.

Skin contact : May cause sensitisation by skin contact. Ingestion : Can cause gastrointestinal disturbances.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : Adverse symptoms may include the following:

> irritation watering redness

Inhalation : No specific data.

Date of issue : 13.07.2011. **MSDS no.** : 112294-2 7/11 SikaCure®-4901 Part B 13.07.2011 8/11

SECTION 11: Toxicological information

Skin contact: Adverse symptoms may include the following:

irritation redness

Ingestion: No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate

: Not available.

effects

Potential delayed effects : Not available.

Long term exposure

Potential immediate

: Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

Conclusion/Summary: Not available.

General: Once sensitized, a severe allergic reaction may occur when subsequently exposed to

very low levels.

Carcinogenicity: No known significant effects or critical hazards.

Mutagenicity: No known significant effects or critical hazards.

Teratogenicity: No known significant effects or critical hazards.

Developmental effects: No known significant effects or critical hazards.

Fertility effects: No known significant effects or critical hazards.

No known significant effects or critical hazards.

Other information : Not available.

SECTION 12: Ecological information

12.1 Toxicity

Conclusion/Summary : Not available.

12.2 Persistence and degradability

Conclusion/Summary : Not available.

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
Cyclohexyldimethylamin Hexamethylen-1,6- diisocyanat	2.01 1.08	-	low low

12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Mobility: Not available.

12.5 Results of PBT and vPvB assessment

PBT : Not applicable. vPvB : Not applicable.

Date of issue : 13.07.2011. MSDS no. : 112294-2 8/11

SikaCure®-4901 Part B 13.07.2011 9/11

SECTION 12: Ecological information

12.6 Other adverse effects

: No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Methods of disposal

: The generation of waste should be avoided or minimised wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

European waste catalogue (EWC)

Waste code	Waste designation	
08 04 09*	waste adhesives and sealants containing organic solvents or other dangerous substances	

Packaging

Completely emptied packagings may be given for recycling. Empty packaging may still contain hazardous residues. Empty packaging should be removed by a licensed waste contractor.

packaging containing residues of or contaminated by dangerous substances

SECTION 14: Transport information

	ADR/RID - ADN/ADNR	IMDG	IATA
14.1 UN number	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name			
14.3 Transport hazard class(es)	-	-	-
14.4 Packing group	-	-	-
14.5 Environmental hazards	No.	No.	No.
14.6 Special precautions for user	Not available.	Not available.	Not available.
Additional information	-	-	-

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

: Not available.

Date of issue : 13.07.2011. MSDS no. : 112294-2 9/11

SikaCure®-4901 Part B 13.07.2011 10/11

SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions

: Not applicable.

on the manufacture,

placing on the market and use of certain dangerous substances, mixtures and

articles

VOC content (EU) : VOC (w/w): 0%

Other EU regulations

REACH Information: : All substances contained in Sika Products are

- preregistered or registered by our upstream suppliers, and/or

preregistered or registered by Sika, and/or
excluded from the regulation, and/or
exempted from the registration.

Europe inventory

: All components are listed or exempted.

National regulations

VOC content (CH) : VOC (w/w): 0%

Hazard class for water : 2 according Appendix No. 4 (Gemäß VwVws vom 17. Mai 1999)

15.2 Chemical Safety

Assessment

: This product contains substances for which Chemical Safety Assessments are still

required.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms : ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.

1272/2008]

DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

Full text of abbreviated H

statements

: H226 Flammable liquid and vapour.

H302 Harmful if swallowed.H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.

H331 Toxic if inhaled. H332 Harmful if inhaled.

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

H335 May cause respiratory irritation.

H411 Toxic to aquatic life with long lasting effects.
 H412 Harmful to aquatic life with long lasting effects.

Full text of classifications [CLP/GHS]

: Acute Tox. 3, H311 ACUTE TOXICITY: SKIN - Category 3
Acute Tox. 3, H331 ACUTE TOXICITY: INHALATION - Category 3

Acute Tox. 4, H302 ACUTE TOXICITY: ORAL - Category 4
Acute Tox. 4, H332 ACUTE TOXICITY: INHALATION - Category 4
Aquatic Chronic 2, H411 AQUATIC TOXICITY (CHRONIC) - Category 2

Aquatic Chronic 2, H411 AQUATIC TOXICITY (CHRONIC) - Category 2

Aquatic Chronic 3, H412 AQUATIC TOXICITY (CHRONIC) - Category 3

Eye Dam. 1, H318 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1

Date of issue : 13.07.2011. MSDS no. : 112294-2 10/11

SikaCure®-4901 Part B 13.07.2011 11/11

SECTION 16: Other information

Eye Irrit. 2, H319 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2

Flam. Liq. 3, H226 FLAMMABLE LIQUIDS - Category 3

Resp. Sens. 1, H334 RESPIRATORY SENSITIZATION - Category 1
Skin Corr. 1B, H314 SKIN CORROSION/IRRITATION - Category 1B
SKIN CORROSION/IRRITATION - Category 2

Skin Sens. 1, H317 SKIN SENSITIZATION - Category 1

STOT SE 3, H335 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) [Respiratory tract irritation] - Category 3

Full text of abbreviated R

phrases

: R10- Flammable.

R23- Toxic by inhalation.

R20/21/22- Harmful by inhalation, in contact with skin and if swallowed.

R34- Causes burns.

R41- Risk of serious damage to eyes.

R36- Irritating to eyes. R38- Irritating to skin.

R36/37/38- Irritating to eyes, respiratory system and skin.

R43- May cause sensitisation by skin contact.

R42/43- May cause sensitisation by inhalation and skin contact.

R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the

aquatic environment.

R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the

aquatic environment.

Full text of classifications

[DSD/DPD]

: T - Toxic C - Corrosive

> Xn - Harmful Xi - Irritant

N - Dangerous for the environment

History

Date of printing : 14.07.2011 **Date of issue** : **13.07.2011**.

Date of previous issue : No previous validation.

Notice to reader

The information contained in this Safety Data Sheet corresponds to our level of knowledge at the time of publication. All warranties are excluded. Our most current General Sales Conditions shall apply. Please consult the product data sheet prior to any use and processing.

Date of issue : 13.07.2011. MSDS no. : 112294-2 11/11