

# CARAPAX THINNER TH 510

Thinner for moisture curing Carapax coatings

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## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

- **Date of compilation:** 16.07.2014
- **1.1 Product identifier**
- **Trade name:** CARAPAX Thinner TH 510
- **Article number(s):** SIS CP 00 510TH
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the preparation:** Thinner, Diluent
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer / Supplier:**  
SISTEC Coatings GmbH  
Mauserstrasse 6/1  
71640 Ludwigsburg  
GERMANY
- **E-mail address of the competent person responsible for the Safety Data Sheet:**  
[info@sistec-coatings.de](mailto:info@sistec-coatings.de)
- **Informing department:** Laboratory
- **1.4 Emergency telephone number:**  
As above or next toxicological information centre.  
+49 (0)30 - 45 05 35 55

## SECTION 2: HAZARDS IDENTIFICATION

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS02 flame

Flam. Liq. 3 H226 Flammable liquid and vapour.



GHS08 health hazard

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.  
STOT SE 3 H336 May cause drowsiness or dizziness.  
Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

## - 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



GHS02 GHS07 GHS08

### - Signal word Danger

### - Hazard-determining components of labelling:

Solvent naphtha (petroleum), light arom.  
n-Butyl acetate

### - Hazard statements

H226 Flammable liquid and vapour.  
H336 May cause drowsiness or dizziness.  
H304 May be fatal if swallowed and enters airways.  
H412 Harmful to aquatic life with long lasting effects.

### - Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.  
P331 Do NOT induce vomiting.

### - Additional information:

EUH066 Repeated exposure may cause skin dryness or cracking.

## - 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 characterization: Mixtures

- Description: Mixture of the substances listed below with nonhazardous additions.

### - Dangerous components:

CAS: 123-86-4	n-Butyl acetate	25 - 50%
EINECS: 204-658-1		


Index number: 607-025-00-1  
Reg.nr.: 01-2119485493-29-xxxx

 Flam. Liq. 3, H226; STOT SE 3, H336

CAS: 108-65-6  
EINECS: 203-603-9

1-Methoxy-2-propyl acetat 25 - 50%





Index number: 607-195-00-7  
Reg.nr.: 01-2119475791-29-xxxx

 Flam. Liq. 3, H226

CAS: 64742-95-6  
EINECS: 265-199-0

Solvent naphtha (petroleum), light arom 10-<25%

Index number: 649-356-00-4  
Reg.nr.: 01-2119486773-24-xxxx

 Flam. Liq. 3, H226;  Asp. Tox. 1, H304;  Aquatic  
Chronic 2, H411;  STOT SE 3, H336

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

## SECTION 4: FIRST AID MEASURES

### • 4.1 Description of first aid measures

#### • **General information:**

Immediately remove any clothing contaminated by the product.

Symptoms of poisoning may occur after several hours. Medical observation for at least 48 hours after the accident is recommended.

#### • **After inhalation:**

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. In case of unconsciousness bring patient into stable side position for transport.

#### • **After skin contact:**

Instantly wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

Take off contaminated clothing.

#### • **After eye contact:**

Rinse opened eye for several minutes under running water. Then consult doctor.

Remove contact lenses, if present and easy to do.

#### • **After swallowing:**

Do not induce vomiting; instantly call for medical help.

Do not induce vomiting - Danger of chemical pneumonia.

### • 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

• **Danger:** Danger of pneumonia.

### • 4.3 Indication of any immediate medical attention and special treatment needed symptomatic treatment

## SECTION 5: FIREFIGHTING MEASURES

### • 5.1 Extinguishing media

#### • **Suitable extinguishing agents**

Carbon dioxide (CO<sub>2</sub>), extinguishing powder or water spray/fog. Fight larger fires with water spray/fog or alcohol-resistant foam.

- **For safety reasons unsuitable extinguishing agents** Water with a full water jet.
- **5.2 Special hazards arising from the substance or mixture**
  - Can form explosive vapour-air mixtures.
  - Can be released in case of fire:  
Carbon monoxide (CO) and Carbon dioxide (CO<sub>2</sub>)
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear self-contained breathing apparatus.
- **Additional information**
  - Cool endangered containers with water spray jet.
  - Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
  - If without risk possible, move drums with material away from dangerous area.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

- **6.1 Personal precautions, protective equipment and emergency procedures**
  - Wear protective equipment. Keep unprotected persons away.
  - Ensure adequate ventilation.
  - Remove all ignition sources.
  - Use breathing protection against the effects of fumes/dust/aerosol.
  - Avoid contact with skin, eyes and clothes.
- **6.2 Environmental precautions:**
  - Do not allow to enter drainage system, surface or ground water.
  - Inform respective authorities in case product reaches water or sewage system.
  - Prevent material from reaching sewage system, holes and cellars.
- **6.3 Methods and material for containment and cleaning up:**
  - Ensure adequate ventilation.
  - Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
  - Send for recovery or disposal in suitable containers.
  - Dispose of the material collected according to regulations.
  - Do not flush with water or aqueous cleansing agents.
- **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 information on disposal.

## SECTION 7: HANDLING AND STORAGE

- **7.1 Precautions for safe handling**
  - Ensure good ventilation/exhaustion at the workplace.
  - Ensure good interior ventilation, especially at floor level (fumes are heavier than air).
  - Restrict the quantity stored in the work place.
  - Use only in well ventilated areas.
  - Do not breathe vapour/spray.
  - Do not get in eyes, on skin, or on clothing
  - Make sure that all applicable workplace limits are observed.
- **Information about protection against explosions and fires:**
  - Fumes can combine with air to form an explosive mixture.
  - Flammable fume/air mixtures may be formed in empty containers.

Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.

**7.2 Conditions for safe storage, including any incompatibilities**

**Storage**

**Requirements to be met by storerooms and containers:**

Observe regulations for storage of flammable liquids.  
Observe all local and national regulations for storage of water polluting products.

**Information about storage in one common storage facility:**

Store away from foodstuffs.  
Store away from oxidising agents.

**Further information about storage conditions:**

Store container in a well ventilated position.  
Store in cool, dry conditions in well sealed containers.

**7.3 Specific end use(s)** No further relevant information available.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Additional information about design of technical systems:** No further data; see item 7.

**8.1 Control parameters**

**Components with critical values that require monitoring at the workplace:**

Applicable PEL/OEL for hydrocarbons to be observed.

**123-86-4 n-Butyl acetate**

WEL (Great Britain) Short-term value: 966 mg/m<sup>3</sup>, 200 ppm  
Long-term value: 724 mg/m<sup>3</sup>, 150 ppm

**108-65-6 1-Methoxy-2-propyl acetate**

WEL (Great Britain) Short-term value: 548 mg/m<sup>3</sup>, 100 ppm  
Long-term value: 274 mg/m<sup>3</sup>, 50 ppm  
Sk

IOELV (European Union) Short-term value: 550 mg/m<sup>3</sup>, 100 ppm  
Long-term value: 275 mg/m<sup>3</sup>, 50 ppm  
Skin

**DNELs**

**108-65-6 1-Methoxy-2-propyl acetate**

Oral DNEL	long-term exposure - systemic effects	1.67 mg/kg bw/d (general population)
Dermal DNEL	long-term exposure - systemic effects	54.8 mg/kg bw/d (general population)
		153.5 mg/kg bw/d (worker)
Inhalative DNEL	long-term exposure - systemic effects	33 mg/m <sup>3</sup> (general population)
		275 mg/m <sup>3</sup> (worker)

**PNECs**

**108-65-6 1-Methoxy-2-propyl acetate**

PNEC	0.635 mg/l (aqua (freshwater))
	6.35 mg/l (aqua (intermittent releases))
	0.0635 mg/l (aqua (marine water))
	100 mg/l (STP (sewage treatment plant))
PNEC	3.29 mg/kg (sediment (freshwater))

0.329 mg/kg (sediment (marine water))  
0.29 mg/kg (soil)

**- 8.2 Exposure controls**

**- Personal protective equipment**

**- General protective and hygienic measures**

- Keep away from foodstuffs, beverages and food.
- Do not eat, drink or smoke while working.
- Instantly remove any contaminated garments.
- Do not inhale gases / fumes / aerosols.
- Avoid contact with the eyes and skin.
- Wash hands during breaks and at the end of the work.
- Do not carry cleaning cloths impregnated with the product in trouser pockets.
- Use skin protection cream for preventive skin protection.

**- Breathing equipment:**

- If all workplace limits are observed and good ventilation is ensured, no special precautions necessary.
- Use breathing protection in case of insufficient ventilation.

**- Protection of hands:**

- Protective gloves
- To avoid skin problems reduce the wearing of gloves to the required minimum.
- Sensibilisation by the components in the glove materials is possible.
- Check the permeability prior to each renewed use of the glove.
- The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
- Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
- 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**

- Protective gloves should be replaced at first signs of wear.
- The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**- Eye protection:** Safety glasses with side-shields (frame goggles) (e.g. EN 166)

**- Body protection:**

- Protective work clothing
- Body protection must be chosen depending on activity and possible exposure.

**- Limitation and supervision of exposure into the environment**

- Do not allow to enter drainage system, surface or ground water.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**- 9.1 Information on basic physical and chemical properties**

**- General Information**

**- Appearance:**

- Form:** liquid
- Colour:** colourless

- **Smell:** solvent-like
- **Odour threshold:** not determined
- **pH-value:** not determined
- **Change in condition**
  - Melting point/Melting range:** not determined
  - Boiling point/Boiling range:** not determined
- **Flash point:** > 23 °C
- **Inflammability (solid, gaseous)** not applicable
- **Ignition temperature:** not determined
- **Decomposition temperature:** Not determined.
- **Self-inflammability:** Product is not selfigniting.
- **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapour mixtures is possible.
  
- **Critical values for explosion:**
  - Lower:** 0.7 Vol %
  - Upper:** 10.4 Vol %
- **Oxidizing properties** none
- **Vapor pressure:** Not determined.
- **Density at 20 °C:** ~ 0.9 g/cm<sup>3</sup>
- **Relative density at 20 °C** ~ 0.9 g/cm<sup>3</sup> (H<sub>2</sub>O = 1)
- **Vapour density (AIR = 1):** 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 at 20 °C:** not determined
- **9.2 Other information** No further relevant information available.

## SECTION 10: STABILITY AND REACTIVITY

- **10.1 Reactivity** see 10.3
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
Avoid impact, friction, heat, sparks, electrostatic charges.
- **10.3 Possibility of hazardous reactions**  
Flammable vapour-air mixtures may develop.  
Used empty containers may contain product gases which form explosive mixtures with air.
- **10.4 Conditions to avoid** No further relevant information available.

- **10.5 Incompatible materials:** Strong oxidizing agents
- **10.6 Hazardous decomposition products:** Carbon monoxide (CO) and Carbon dioxide (CO<sub>2</sub>)

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

**123-86-4 n-Butyl acetate**

Oral	LD50	13100 mg/kg (rat)
Dermal	LD50	14100 mg/kg (rabbit)

**108-65-6 1-Methoxy-2-propyl acetat**

Oral	LD50	8532 mg/kg (rat)
Inhalative	LC50/4 h	35.7 mg/l (rat)

**64742-95-6 Solvent naphtha (petroleum), light arom.**

Oral	LD50	6800 mg/kg (rat)
Dermal	LD50	3400 mg/kg (rabbit)
Inhalative	LC50/4 h	10.2 mg/l (rat)

- **Primary irritant effect:**

- **Skin corrosion/irritation:** Long or repeated contact can defat skin and may cause dermatitis.
- **Serious eye damage/irritation:** Short time, reversible irritating effect.
- **Respiratory or skin sensitisation:** Based on available data, the classification criteria are not met.
- **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 drowsiness or dizziness.
- **STOT-repeated exposure:** Based on available data, the classification criteria are not met.
- **Aspiration hazard:** May be fatal if swallowed and enters airways.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1 Toxicity

- **Aquatic toxicity:**

**123-86-4 n-Butyl acetate**

LC50/96 h	62 mg/l (leuciscus idus)
	100 mg/l (bluegill (Iepomis macrochirus))
	18 mg/l (fathead minnow (Pimephales promelas))
EC50/24 h	72.8 mg/l (water flea (Daphnia magna))
IC50/72 h	674.7 mg/l (algae (Scenedesmus subspicatus))
NOEC/21 d	23 mg/l (water flea (Daphnia magna))

**108-65-6 1-Methoxy-2-propyl acetat**

LC50/96 h	100-180 mg/l (red killifish (Oryzias latipes)) (OECD 203)
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- **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.
- **Additional ecological information:**
- **General notes:**  
Toxic to aquatic life with long lasting effects.  
Water hazard class 2 (Self-assessment): hazardous for water
- **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** Disposal must be made according to official regulations.
- **European waste catalogue:**  
Waste disposal key numbers from EWC have to be assigned depending on origin and processing.
- **Uncleaned packagings:**
- **Recommendation:**  
Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.  
Packagings that cannot be cleaned are to be disposed of in the same manner as the product.

## SECTION 14: TRANSPORT INFORMATION

- **14.1 UN-Number**
- **ADR, IMDG, IATA** UN1263
- **14.2 UN proper shipping name**
- **ADR** UN1263 PAINT RELATED MATERIAL, ENVIRONMENTALLY HAZARDOUS, SPECIAL PROVISION 640E
- **IMDG, IATA** PAINT RELATED MATERIAL
- **14.3 Transport hazard class(es)**
- **ADR**
-  **Class** 3 (F1) Flammable liquids
- **Label** 3

· **IMDG, IATA**



· <b>Class</b>	3 Flammable liquids.
· <b>Label</b>	3
· <b>14.4 Packing group</b>	
· <b>ADR, IMDG, IATA</b>	III
· <b>14.5 Environmental hazards:</b>	Product contains environmentally hazardous substances: Solvent naphtha (petroleum), light arom.
· <b>Marine pollutant:</b>	NO
· <b>14.6 Special precautions for user</b>	Warning: Flammable liquids.
· <b>Kemler Number:</b>	30
· <b>EMS Number:</b>	F-E,S-E
· <b>14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	Transport by post may be prohibited or restricted.
· <b>ADR</b>	
· <b>Excepted quantities (EQ):</b>	E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· <b>Limited quantities (LQ):</b>	5L
· <b>Transport category:</b>	3
· <b>Tunnel restriction code:</b>	D/E
· <b>IMDG</b>	
· <b>Limited quantities (LQ):</b>	5L
· <b>Excepted quantities (EQ) Code:</b>	E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· <b>UN "Model Regulation":</b>	UN1263, PAINT RELATED MATERIAL, SPECIAL PROVISION 640E, ENVIRONMENTALLY HAZARDOUS, 3, III

## SECTION 15: REGULATORY INFORMATION

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Seveso category**
  - E2
  - P5c
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 200 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t
- **National regulations**
- **Information about limitation of use:** Employment restrictions concerning young persons must be observed.
- **Decree to be applied in case of technical fault:**
  - Quantity limits according to "EC Seveso directive" should be observed.
- **Water hazard class:** Water hazard class 2 (Self-assessment): hazardous for water
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## SECTION 16: OTHER INFORMATION

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

### - Relevant phrases

The(se) R- resp. H-phrase(s) are those of the ingredient(s) and do(es) not necessarily represent the classification of the preparation/mixture.

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects. R10 Flammable.

### - Department issuing MSDS:

SISTEC Coatings GmbH  
Mauserstraße 6/1  
71640 Ludwigsburg  
GERMANY

### - 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)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized 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)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH) LC50: Lethal concentration, 50 percent

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 3: Flammable liquids, Hazard Category 3

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

Asp. Tox. 1: Aspiration hazard, Hazard Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

- **Sources:** These data are based on information submitted by pre-suppliers.