

# CARAPAX THINNER (LONG) TH 515

Thinner long for moisture curing Carapax primer

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

- **Date of compilation:** 11.09.2014
- **1.1 Product identifier**
- **Trade name:** CARAPAX Thinner (Primer) TH 515 long
- **Article number(s):** SIS CP 00 515TH
- **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
- **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

Acute Tox. 4 H332 Harmful if inhaled.  
STOT SE 3 H336 May cause drowsiness or dizziness.  
Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

• **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**



Xn; Harmful

R20/21-65: Harmful by inhalation and in contact with skin. Harmful: may cause lung damage if swallowed.  
R10-52/53-66: Flammable. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Repeated exposure may cause skin dryness or cracking.

• **Information concerning particular hazards for human and environment:**

Vapours of the product are heavier than air and may accumulate on the ground, in mines, drains or cellars with higher concentration.  
Heightened risk of fire and danger of explosion at accumulation in lower-lying or closed rooms.  
Long or repeated contact with skin may cause dermatitis due to the degreasing effect of the solvent.

• **Classification system:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

• **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:**

Butylglycol acetate  
Solvent naphtha (petroleum), light arom.

• **Hazard statements**

H226 Flammable liquid and vapour.  
H332 Harmful if inhaled.  
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.  
P243 Take precautionary measures against static discharge.  
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.  
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
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: 112-07-2 EINECS: 203-933-3 Index number: 607-038-00-2	Butylglycol acetate  Xn R20/21  Acute Tox. 4, H312; Acute Tox. 4, H332	25 - 50%
CAS: 108-65-6 EINECS: 203-603-9 Index number: 607-195-00-7	1-Methoxy-2-propyl acetat R10  Flam. Liq. 3, H226	25 - 50%
CAS: 64742-95-6 EINECS: 265-199-0 Index number: 649-356-00-4	Solvent naphtha (petroleum), light arom  Xn R65;  N R51/53 R10-66-67  Flam. Liq. 3, H226;  Asp. Tox. 1, H304;  Aquatic Chronic 2, H411;  STOT SE 3, H336	20-<25%.
CAS: 123-86-4 INECS: 204-658-1 Index number: 607-025-00-1	n-Butyl acetate R10-66-67  Flam. Liq. 3, H226;  STOT SE 3, H336	≤ 10%

• **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.

Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
In case of unconsciousness bring patient into stable side position for transport.

• **After skin contact:**

Instantly wash with water and soap and rinse thoroughly.  
After prolonged skin contact defatting of skin possible, use skin protecting agent after prolonged skin contact.  
Take off contaminated clothing and wash before reuse.  
Seek medical treatment.

• **After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, 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.  
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.  
Protect from heat and direct sunlight.

**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:**

**112-07-2 Butylglycol acetate**

WEL (Great Britain)	Short-term value: 332 mg/m <sup>3</sup> , 50 ppm Long-term value: 133 mg/m <sup>3</sup> , 20 ppm Sk
IOELV (European Union)	Short-term value: 333 mg/m <sup>3</sup> , 50 ppm Long-term value: 133 mg/m <sup>3</sup> , 20 ppm Skin

**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

**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
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**- 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)) 0.0635 mg/l (aqua (marine water)) 3.29 mg/kg (sediment (freshwater)) 0.329 mg/kg (sediment (marine water)) 0.29 mg/kg (soil) 100 mg/l (STP (sewage treatment plant))
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**- Ingredients with biological limit values:**

**1330-20-7 Xylene, mixture of isomers**

BMGV (Great Britain)	650 mmol/mol creatinine Medium: urine Sampling time: post shift Parameter: methyl hippuric acid
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**- 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:**

In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.

• **Protection of hands:**

Protective gloves

To avoid skin problems reduce the wearing of gloves to the required minimum.

Sensibilization 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 cannot 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:** 10.8 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
  - Organic solvents:** 100.0 %
- **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:**  
112-07-2 Butylglycol acetate



Oral LD50 2400 mg/kg (rat)  
Dermal LD50 1500 mg/kg (rabbit)

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

Oral LD50 8532 mg/kg (rat)  
Dermal LD50 > 2000 mg/kg (rabbit)  
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)

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

Oral LD50 13100 mg/kg (rat)  
Dermal LD50 14100 mg/kg (rabbit)  
Inhalative LC50/4 h > 21 mg/l (rat)

**- Primary irritant effect:**

- **on the skin:** Long or repeated contact can defat skin and may cause dermatitis.
- **on the eye:** Short time, reversible irritating effect.

**- Subacute to chronic toxicity:** not classified

**- Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:

Harmful

Danger by skin resorption.

Asp. Tox. 1

**- Sensitisation** No sensitizing effect known.

**- Repeated dose toxicity** not classified

**- CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)**

According to present knowledge no CMR-effects known.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1 Toxicity

**- Aquatic toxicity:**

**112-07-2 Butylglycol acetate**

EC50/17 h 960 mg/l (pseudomonas putida)  
EC50/48 h 37 mg/l (water flea (daphnia magna))  
EC50/72 h > 500 mg/l (algae (Scenedesmus subspicatus))  
LC50/48 h 80 mg/l (leuciscus idus)

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

IC50/96 h 100 - 180 mg/l (rainbow trout (oncorhynchus mykiss)) (OECD 203)  
IUCLID  
LC50/96 h 100-180 mg/l (red killifish (Oryzias latipes)) (OECD 203)  
ECHA-Reg.-Dossier (1987-09-21)

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

EC50 959 mg/l (pseudomonas putida) (EC10)

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

- **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:**  
Harmful 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



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

## SECTION 15: REGULATORY INFORMATION

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

H312 Harmful in contact with skin.

H332 Harmful if inhaled.

H336 May cause drowsiness or dizziness.

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

R10 Flammable.

R20/21 Harmful by inhalation and in contact with skin.

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

R65 Harmful: may cause lung damage if swallowed.

R66 Repeated exposure may cause skin dryness or cracking.

R67 Vapours may cause drowsiness and dizziness.

### - 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

Flam. Liq. 3: Flammable liquids, Hazard Category 3  
Acute Tox. 4: Acute toxicity, Hazard Category 4  
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3  
Asp. Tox. 1: Aspiration hazard, Hazard Category 1  
Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1  
Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2

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