

# CARAPAX THINNER (TOPCOAT) TH 520

Thinner for moisture curing Carapax topcoats

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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 (Topcoat) TH 520

· Article number(s): SIS CP 00 520TH

 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.



Skin Irrit. 2 H315 Causes skin irritation.



Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

# - Classification according to Directive 67/548/EEC or Directive 1999/45/EC



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



Xi; Irritant

R38: Irritating to skin.



F; Highly flammable

R11: Highly flammable.

#### - 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.

#### · 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:

n-Butyl acetate

#### · Hazard statements

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

#### · 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.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

25 - 50%

25 - 50%

10-<20%



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P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P302+P352 IF ON SKIN: Wash with plenty of soap and water. P312 Call a POISON CENTER/doctor if you feel unwell.

- 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 INECS: 204-658-1

Index number: 607-025-00-1

CAS: 1330-20-7 EINECS: 215-535-7

Index number: 601-022-00-9

CAS: 108-10-1 EINECS: 203-550-1

Index number: 606-004-00-4

n-Butyl acetate R10-66-67

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

Xylene, mixture of isomers

Xn R20/21; Xi R38

R10

Flam. Liq. 3, H226; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315

Methyl isobutyl ketone

Xn R20; Xi R36/37; 

▶ F R11

R66

Flam. Liq. 2, H225; Acute Tox. 4, H332; Eye Irrit. 2, H319; STOT SE 3, H335

- 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 and wash before reuse.



#### · After eye contact:

Rinse opened eye for several minutes under running water.

Use eye protection.

Remove contact lenses, if present and easy to do.

Call a doctor immediately.

#### · 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.
- · 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.

Open and handle container with care.

Do not breathe vapour/spray.

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.

Use explosion-proof apparatus / fittings and spark-proof tools.

Have fire extinguishing equipment ready in case of nearby fire.

#### - 7.2 Conditions for safe storage, including any incompatibilities

#### Storage

#### - Requirements to be met by storerooms and containers:

Store in cool location.

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: Not required.
- · 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/m³, 200 ppm

Long-term value: 724 mg/m³, 150 ppm

1330-20-7 Xylene, mixture of isomers

WEL (Great Britain) Short-term value: 441 mg/m³, 100 ppm

Long-term value: 220 mg/m³, 50 ppm

Sk; BMGV

IOELV (European Union) Short-term value: 442 mg/m³, 100 ml/m³



Long-term value: 221 mg/m³, 50 ml/m³

Skin

108-10-1 Methyl isobutyl ketone

WEL (Great Britain) Short-term value: 416 mg/m³, 100 ppm

Long-term value: 208 mg/m³, 50 ppm

Sk, BMGV

IOELV (European Union) Short-term value: 208 mg/m³, 50 ppm

Long-term value: 83 mg/m³, 20 ppm

· 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)

275 mg/m³ (worker)

Inhalative DNEL long-term exposure - systemic effects 33 mg/m³ (general population)

- 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

108-10-1 Methyl isobutyl ketone

BMGV (Great Britain) 20 µmol/L

Medium: urine

Sampling time: post shift

Parameter: 4-methylpentan-2-one

- 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.

If all workplace limits are observed and good ventilation is ensured, no special precautions necessary.

· 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.



# according to 1907/2006/EC, Article 31

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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 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:
 1.1 Vol %

 Upper:
 10.4 Vol %

Oxidizing properties none



Vapor pressure: Not determined.
 Density at 20 °C: ~ 0.9 g/cm³

• Relative density at 20 °C  $\sim 0.9 \text{ g/cm}^3 \text{ (H}_2\text{O} = 1)$ 

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)

 Inhalative
 LC50/4 h
 > 21 mg/l (rat)

1330-20-7 Xylene, mixture of isomers

 Oral
 LD50
 8700 mg/kg (rat)

 Dermal
 LD50
 2000 mg/kg (rabbit)

 Inhalativ
 LC50/4 h
 6350 mg/l (rat)

108-10-1 Methyl isobutyl ketone

 Oral
 LD50
 2100 mg/kg (rat)

 Dermal
 LD50
 16000 mg/kg (rabbit)

 Inhalative
 LC50/4 h
 8.3 - 16.6 mg/l (rat)

· Primary irritant effect:



- on the skin: Causes skin irritation.
- on the eye: Causes serious eye irritation.
- Subacute to chronic toxicity: not classified
- Additional toxicological information: Vapours have anaesthetic effect.
- 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:

## 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 (lepomis macrochirus))

18 mg/l (fathead minnow (pimephales promelas))

NOEC/21 d 23 mg/l (water flea (daphnia magna))

# 1330-20-7 Xylene, mixture of isomers

EC50 1 - 10 mg/l (bacteria)

EC50/24 h 165 mg/l (water flea (daphnia magna))

IC50/72 h 1 - 10 mg/l (algae) LC50/48 h 86 mg/l (Leuciscus idus)

LC50/96 h 14 mg/l (rainbow trout (oncorhynchus mykiss))

- 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: 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, ENVI

RONMENTALLY 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

- ADR, IMDG, IATA

· 14.5 Environmental hazards:

Marine pollutant:

NO

• 14.6 Special precautions for user Warning: Flammable liquids.

- Kemler 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

MARPOL 73/78 and the IBC Code Not applicable.

• Transport/Additional information: Transport by post may be prohibited or restricted.



- ADR

• Excepted quantities (EQ):

- Limited quantities (LQ): 5L

- Transport category: 3

• Tunnel restriction code: D/E

• UN "Model Regulation": UN1263, PAINT RELATED MATERIAL, SPE

CIAL PROVISION 640E,

ENVIRONMENTALLY HAZARDOUS, 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:

  Overtity limits according to "FC Courses directive" about the about the

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.

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness..

R10 Flammable.

R11 Highly flammable.

R20 Harmful by inhalation.

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

R36/37 Irritating to eyes and respiratory system.

R38 Irritating to skin.

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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Flam. Liq. 2: Flammable liquids, Hazard Category 2

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

Acute Tox. 4: Acute toxicity, Hazard Category 4

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

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

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