

CARAPAX ACTIVATOR AC 430

Activator for Carapax Tar 21

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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 Activator AC 430
- **Article number(s):** SIS CP 00 430AC
- **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:** Activator
- **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.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.
Skin Sens. 1 H317 May cause an allergic skin reaction.

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



Xn; Harmful

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



Xi; Irritant

R43: May cause sensitisation by skin contact.

R10: 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

- **Signal word** Warning

- **Hazard-determining components of labelling:**

1,6-hexanediy-bis(2-(2-(1-ethylpentyl)-3-oxazolidinyl)ethyl)carbamate

- **Hazard statements**

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

- **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.

P362 Take off contaminated clothing and wash before reuse.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P302+P352 IF ON SKIN: Wash with plenty of water.

- **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: 140921-24-0	1,6-hexanediyl-bis(2-(2-(1-ethylpentyl)-3-oxazolidinyl)ethyl)carbamate	50 - 100%
ELINCS: 411-700-4	 Xi R4	
Index number: 616-079-00-5 Reg.nr.: 01-000015906-63-xxxx	 Skin Sens. 1, H317	
CAS: 1330-20-7	Xylene, mixture of isomers	12.5-<20%
EINECS: 215-535-7 Index number: 601-022-00-9	 Xn R20/21;  Xi R38 R10	
Reg.nr.: 01-21194882216-32-xxxx	 Flam. Liq. 3, H226;  Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315	
CAS: 123-86-4 EINECS: 204-658-1	n-Butyl acetate R10-66-67	3-<10%
Index number: 607-025-00-1	 Flam. Liq. 3, H226;  STOT SE 3, H336	

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

- **Ingredients according to Regulation (EC) No 648/2004:**

aromatic hydrocarbons 5 - 15%

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.

Seek medical treatment.

Take off contaminated clothing and wash before reuse.

- **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:**

Rinse out mouth and then drink plenty of water.

Do NOT induce vomiting.
Seek immediate medical advice.

- **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

Foam
Carbon dioxide (CO₂)
Fire-extinguishing powder
Do not use water.

- For safety reasons unsuitable extinguishing agents

 Water.

- 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 (CO₂)
Nitrogen oxides (NO_x)

- 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.

- 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: Not required.

- Further information about storage conditions:

- Store container in a well ventilated position.
- Store in cool, dry conditions in well sealed containers.
- Protect from humidity and keep away from water.

- 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:

1330-20-7 Xylene, mixture of isomers

WEL (Great Britain)	Short-term value: 441 mg/m ³ , 100 ppm Long-term value: 220 mg/m ³ , 50 ppm Sk; BMGV
IOELV (European Union)	Short-term value: 442 mg/m ³ , 100 ml/m ³ Long-term value: 221 mg/m ³ , 50 ml/m ³ Skin

123-86-4 n-Butyl acetate

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

- 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.
- 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 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 to yellowish

- 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:** 7.0 Vol %
- **Oxidizing properties** none
- **Vapor pressure:** Not determined.
- **Density at 20 °C:** ~ 1 g/cm³
- **Relative density at 20 °C** ~ 1 (H₂O = 1)
- **Vapour density (AIR = 1):** Not determined.
- **Evaporation rate** Not determined.
- **Solubility in / Miscibility with Water:** partly miscible
- **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.
Reacts with water
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** Strong oxidizing agents

- **10.6 Hazardous decomposition products:**
Nitrogen oxides (NO_x)
Carbon monoxide (CO) and Carbon dioxide (CO₂)

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

- **Acute toxicity:**

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

140921-24-0 1,6-hexanediyl-bis(2-(2-(1-ethylpentyl)-3-oxazolidinyl)ethyl)carbamate

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

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:** Causes skin irritation.
- **on the eye:** Short time, reversible irritating effect.
- **Subacute to chronic toxicity:** not classified
- **Sensitisation** May cause sensitisation by skin contact.
- **Repeated dose toxicity** not classified
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
According to present knowledge no CMR-effects known.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

- **Aquatic toxicity:**

140921-24-0 1,6-hexanediyl-bis(2-(2-(1-ethylpentyl)-3-oxazolidinyl)ethyl)carbamate

EC50/48 h	193 mg/l (daphnia)
IC50/72 h	43 mg/l (algae)
LC50/96 h	316 mg/l (fish)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))

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:** 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:**
Disposal must be made according to official regulations.

SECTION 14: TRANSPORT INFORMATION

- **14.1 UN-Number**
- **ADR, IMDG, IATA** UN1263
- **14.2 UN proper shipping name**
- **ADR** UN1263 PAINT RELATED MATERIAL, 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	III
- 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	Not applicable.
- Transport/Additional information:	Transport by post may be prohibited or restricted.
- ADR	
- Excepted quantities (EQ):	E1
- Limited quantities (LQ):	5L
- Transport category:	3
- Tunnel restriction code:	D/E
- 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.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H332 Harmful if inhaled.

H336 May cause drowsiness or dizziness.

R10 Flammable.

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

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. 3: Flammable liquids, Hazard Category 3

Acute Tox. 4: Acute toxicity, Hazard Category 4

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

Skin Sens. 1: Sensitisation - Skin, Hazard Category 1

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

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