

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**MANKIEWICZ**  
Lackierideen der Zukunft



Commercial Product Name: SEEVENAX-Härter / Hardener 315-69  
Quality No.: 3156900000000

Revision Date 27.11.2018  
Print Date 27.11.2018  
Version 1

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

### 1.1 Product identifier

Trade name : SEEVENAX-Härter / Hardener 315-69

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

Use of the : Industrial serial painting  
Substance/Mixture

### 1.3 Details of the supplier of the safety data sheet

Producer : Mankiewicz Gebr. & Co. (GmbH & Co. KG)  
Georg-Wilhelm-Strasse 189  
21107 Hamburg  
Germany

Telephone : +49 (0) 40 75103 0  
Telefax : +49 (0) 40 75103 375  
E-mail address : sdb\_info@umco.de

### 1.4 Emergency telephone number

Emergency telephone : +49 (0) 551 / 19240 (Toxic agent information centre North /  
number : NORD)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 3 H226: Flammable liquid and vapour.  
Serious eye damage, Category 1 H318: Causes serious eye damage.  
Specific target organ toxicity - single exposure, Category 3, Central nervous system H336: May cause drowsiness or dizziness.

### 2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Danger

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Hazard statements : H226 Flammable liquid and vapour.  
H318 Causes serious eye damage.  
H336 May cause drowsiness or dizziness.

Precautionary statements : **Prevention:**  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:**  
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.  
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.  
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Hazardous components which must be listed on the label:

68082-29-1 POLYAMINOADDUCT (R41)

107-98-2 1-methoxy-2-propanol

## 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.  
The information required is contained in this Material Safety Data Sheet.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Chemical nature : Hardener based on polyamine / amino adduct

#### Hazardous components

Chemical name CAS-No. EC-No. Registration number Remarks	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
POLYAMINOADDUCT (R41) 68082-29-1	Eye Dam. 1; H318	>= 25 - < 40
Substances with a workplace exposure limit :		
1-methoxy-2-propanol 107-98-2	Flam. Liq. 3; H226 STOT SE 3; H336	>= 20 - < 25

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203-539-1 01-2119457435-35		
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## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- General advice : In all cases of doubt, or when sickness symptoms persist, seek medical attention.  
Never give anything by mouth to an unconscious person.
- If inhaled : Remove to fresh air, keep patient warm and at rest.  
Irregular breathing/no breathing: artificial respiration.  
If unconscious place in recovery position and seek medical advice.
- In case of skin contact : Take off all contaminated clothing immediately.  
Wash skin thoroughly with soap and water or use recognised skin cleanser.  
Do NOT use solvents or thinners !
- In case of eye contact : Remove contact lenses, irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart and seek medical advice.
- If swallowed : Do NOT induce vomiting.  
If accidentally swallowed obtain immediate medical attention.  
Never give anything by mouth to an unconscious person.  
Keep at rest.

### 4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : No information available.

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

- Treatment : No information available.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- Suitable extinguishing media : Alcohol resistant foam, CO<sub>2</sub>, powders, water spray
- Unsuitable extinguishing media : High volume water jet

### 5.2 Special hazards arising from the substance or mixture

- Specific hazards during firefighting : Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

### 5.3 Advice for firefighters

- Special protective equipment for : Appropriate breathing apparatus may be required.

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firefighters

Further information : Cool endangered containers with water in case of fire.  
DO NOT ALLOW RUN-OFF FROM FIRE FIGHTING TO ENTER  
DRAINS OR WATER COURSES!!

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Exclude sources of ignition and ventilate the area.  
Do not inhale vapours.  
Refer to protective measures listed in sections 7 and 8.

### 6.2 Environmental precautions

Environmental precautions : Do not let product enter drains.  
If the product contaminates lakes, rivers or sewage, inform  
appropriate authorities in accordance with local regulations.

### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Contain and collect spillage with non-combustible absorbent  
materials, e.g. sand, earth, vermiculite, diatomaceous earth and  
place in container for disposal according to local regulations (see  
chapter 13).  
Clean preferably with a detergent; avoid use of solvents.

### 6.4 Reference to other sections

For personal protection see section 8.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : Avoid contact with the skin and the eyes.  
Prevent the creation of flammable or explosive concentrations of  
vapour in air and avoid vapour concentrations higher than the  
occupational exposure limits.  
Comply with the health and safety at work laws.  
Smoking, eating and drinking should be prohibited in the application  
area.

Advice on protection against fire and explosion : The product should only be used in areas from which all naked lights  
and other sources of ignition have been excluded. Preparation may  
charge electrostatically: always use earthing leads when transferring  
from one container to another. Operators should wear anti-static  
footwear and clothing. No sparking tools should be used. Vapours  
are heavier than air and may spread along floors. Vapours may form  
explosive mixtures with air.



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## 7.2 Conditions for safe storage, including any incompatibilities

- Requirements for storage areas and containers : Electrical equipment should be protected to the appropriate standard. Floors should be of the conducting type. Keep container tightly closed. Never use pressure to empty: container is not a pressure vessel. No smoking. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
- Further information on storage conditions : Always keep in containers of same material as the original one. See also instructions on the label. Avoid heating and direct sunlight. Keep container dry in a cool, well-ventilated place.
- Advice on common storage : Keep away from oxidizing agents and strongly acid or alkaline materials.
- Storage temperature : 5 - 35 °C

## 7.3 Specific end use(s)

- Specific use(s) : This information is not available.

# SECTION 8: Exposure controls/personal protection

## 8.1 Control parameters

### Occupational Exposure Limits

CAS-No.	Source	Value	Ceiling Limit Value	Update
<b>1-methoxy-2-propanol</b>				
107-98-2	2000/39/EC	100 ml/m3 375 mg/m3		08.06.2000
Further information:	Skin			
<b>1-methoxy-2-propanol</b>				
107-98-2	List of approved workplace exposure limits (WELs) / EH40	100 ml/m3 375 mg/m3		01.09.2003
Further information:	Sk			

### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

- 1-methoxy-2-propanol : End Use: Workers  
Exposure routes: Inhalation  
Potential health effects: Long-term systemic effects  
Value: 369 mg/m3  
End Use: Workers  
Exposure routes: Dermal  
Potential health effects: Long-term systemic effects  
Value: 183 mg/kg bw/day  
End Use: Consumers  
Exposure routes: Inhalation  
Potential health effects: Long-term systemic effects  
Value: 43,9 mg/m3  
End Use: Consumers

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Exposure routes: Dermal  
Potential health effects: Long-term systemic effects  
Value: 78 mg/kg bw/day  
End Use: Consumers  
Exposure routes: Oral  
Potential health effects: Long-term systemic effects  
Value: 33 mg/kg bw/day

## Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

1-methoxy-2-propanol : Fresh water  
Value: 10 mg/l  
Marine water  
Value: 1 mg/l  
Fresh water sediment  
Value: 52,3 mg/kg dry weight (d.w.)  
Marine sediment  
Value: 5,2 mg/kg dry weight (d.w.)  
Sewage treatment plant  
Value: 100 mg/l  
Soil  
Value: 4,59 mg/kg dry weight (d.w.)

## 8.2 Exposure controls

### Engineering measures

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain aerosol- and solvent vapours concentration below the OEL, suitable respiratory protection must be worn.

### Personal protective equipment

Eye protection : Wear safety goggles to protect against solvent splashes.

Hand protection

Remarks

: Adhere to the professional organisation rule "Use of protective gloves". Appropriate chemicals resistant glove tested in compliance with EN 374.  
Recommendation for protection against components generally found in the products:

For short-term contact (i.e. splash protection):

Appropriate material:

nitrile rubber, Neoprene

Material thickness: > 0,4 mm

Breakthrough time: > 480 min

Before use, the protective glove should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Preventive hand protection (skin protection cream) recommended. Wash immediately contaminated skin. Design operations thus to avoid permanent use of protective gloves.

Skin and body protection

: Personal should wear antistatic clothings made of natural fiber or offhigh temperature resistant synthetic fiber. All parts of the body

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should be washed after contact.

- Respiratory protection : If workers are exposed to concentrations above the exposure limit they must use appropriate, certified respirators. Use half-mask model with cartridge or air-fed.
- Protective measures : Do not eat or drink during work - no smoking. Avoid product contact with skin, eyes and clothing. Avoid the inhalation of dust from sanding, particulates and spray mist arising from the application of this preparation.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

- Appearance : liquid  
Colour : according product name  
Odour : characteristic  
Boiling point/boiling range : ca. 120 °C
- Flash point : 57 °C  
Method: ISO 13736
- Upper explosion limit : 10,0 %(V)  
Lower explosion limit : 1,0 %(V)
- Vapour pressure : ca. 100 hPa (50 °C)
- Density : ca. 1 g/cm<sup>3</sup> (20 °C)
- Water solubility : insoluble
- Auto-ignition temperature : > 400 °C
- Viscosity  
Flow time : 85 s  
Cross section: 4 mm  
Method: DIN 53211
- 57 s  
Cross section: 6 mm  
Method: ISO 2431

### 9.2 Other information

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No decomposition if stored and applied as directed.

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

### 10.4 Conditions to avoid

Conditions to avoid : Stable under recommended storage and handling conditions (See section 7).

### 10.5 Incompatible materials

Materials to avoid : Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

### 10.6 Hazardous decomposition products

Hazardous decomposition products : When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

#### Further information

#### Product:

Remarks: Exposure of vapour concentration in excess of the stated OEL's may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue muscular weakness, drowsiness and in extrem cases, loss of consciousness., Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin., The liquid splashed in the eyes may cause irritation and reversible damage., Corrosive effect of product in contact with skin, eyes and mucous membranes., Risk of serious damage to eyes.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Product:

Ecotoxicology Assessment  
Short-term (acute) aquatic hazard

: There are no data available on the preparation itself.

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## 12.2 Persistence and degradability

**Product:**  
Biodegradability : Remarks: There are no data available on the preparation itself.

## 12.3 Bioaccumulative potential

**Product:**  
Bioaccumulation : Remarks: There are no data available on the preparation itself.

## 12.4 Mobility in soil

**Product:**  
Mobility : Remarks: There are no data available on the preparation itself.

## 12.5 Results of PBT and vPvB assessment

**Product:**  
Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

## 12.6 Other adverse effects

**Product:**  
Additional ecological information : There are no data available on the preparation itself., The product should not be allowed to enter drains or water courses.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

**Product** : The listed waste code numbers, according to the European Waste Catalogue, are to be understood as a recommendation. A final decision must be made in agreement with the regional waste disposal company.

**Contaminated packaging** : Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse. Packaging that cannot be cleaned should be disposed off in agreement with the regional waste disposal company.

**Waste key for the unused product** : 080111 waste paint and varnish containing organic solvents or other dangerous substances

## SECTION 14: Transport information

### 14.1 UN number

**ADR** : UN 1263

**IMDG** : UN 1263

**IATA** : UN 1263

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## 14.2 UN proper shipping name

**ADR** : PAINT RELATED MATERIAL  
**IMDG** : PAINT RELATED MATERIAL  
**IATA** : PAINT RELATED MATERIAL

## 14.3 Transport hazard class(es)

**ADR** : 3  
**IMDG** : 3  
**IATA** : 3

## 14.4 Packing group

**ADR**  
Packing group : III  
Classification Code : F1  
Hazard Identification Number : 30  
Labels : 3  
Tunnel restriction code : (D/E)

**IMDG**  
Packing group : III  
Labels : 3  
EmS Code : F-E, S-E

**IATA**  
Packing instruction (cargo aircraft) : 366  
Packing instruction (passenger aircraft) : 355  
Packing group : III  
Labels : Flammable Liquids

## 14.5 Environmental hazards

**ADR**  
Environmentally hazardous : no

**IMDG**  
Marine pollutant : no

## 14.6 Special precautions for user

Remarks : If transported within the user's premises: To be transported always in closed, upright and safe containers. Make sure that persons handling these containers are aware of the rules of conduct in case of incident or spillage.  
Receptacles with less than 450 litres capacity, are not subject to ADR (see ADR 2.2.3.1.5)  
Receptacles with less than 30 litres capacity, are not subject to the regulations of IMDG chapters 4.1, 5.2 and 6.1 (see IMDG 2.3.2.5)

## 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

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Bank Name  
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HypoVereinsbank  
Postbank

Ort  
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Kto.-Nr.  
600227300  
59273300  
373205

BLZ  
200 700 00  
200 300 00  
200 100 20

BIC  
DEUTDE33XXX  
HYVEDE33XXX  
PBNDDE33XXX

IBAN  
DE58 2007 0000 0600 2273 00  
DE34 2003 0000 0059 2733 00  
DE85 2001 0020 0000 3732 05

Sitz/Registergericht Hamburg: HRA 42442  
Persönlich haftende Gesellschafterin:  
Grau Gebr. Beteiligungs-GmbH  
Sitz/Registergericht Hamburg: HRB 17189  
Geschäftsführender Gesellschafter:  
Michael O. Grau

Bureau Veritas  
Certification:  
ISO 9001,  
TS 16949,  
EN 9100



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**MANKIEWICZ**  
Lackierideen der Zukunft



Commercial Product Name: SEEVENAX-Härter / Hardener 315-69  
Quality No.: 3156900000000

Revision Date 27.11.2018  
Print Date 27.11.2018  
Version 1

## SECTION 15: Regulatory information

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

REACH - Candidate List of Substances of Very High Concern : Not applicable  
for Authorisation (Article 59).

Directive 2010/75/EU of 24 : VOC content excluding water 25 %  
November 2010 on industrial emissions (integrated pollution 391 g/l  
prevention and control)

Other regulations : The information given in this material safety data sheet does not  
release the user from its duty of risk assessment and control in the  
work place defined in other health and safety law.  
Adhere to the national sanitary and occupational safety regulations  
when using this product.

### 15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for the mixture.

## SECTION 16: Other information

### Full text of H-Statements

H226 Flammable liquid and vapour.  
H318 Causes serious eye damage.  
H336 May cause drowsiness or dizziness.

### Further information

### Further information

Other information : This safety datasheet complies with the requirements of regulation  
(EC) No 1907/2006(2015/830).

### Department issuing safety data sheet

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