



# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 17.05.2023

Version number 4

Revision: 17.05.2023

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

- **1.1 Product identifier** CODE 1000
- **Trade name:** SWIN HS BINDER
- **Article number:** SW-2000\*, SW-2200-A-\*, SW-6500-\*
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Sector of Use**  
 SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites  
 SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
- **Product category** PC9a Coatings and paints, thinners, paint removers
- **Process category**  
 PROC7 Industrial spraying  
 PROC11 Non industrial spraying
- **Environmental release category** ERC8c Widespread use leading to inclusion into/onto article (indoor)
- **Application of the substance / the mixture** Coating material
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
 SWIN Lacksysteme  
 Boschweg 5  
 D-48351 Everswinkel  
 info@swinsysteme.de
- **Further information obtainable from:** +49 2582-67613 / +49 2582-67677
- **1.4 Emergency telephone number:**  
 Giftinformationszentrum Göttingen (GIZ-Nord) Phone: +49 (0)551-19240

## 2 Hazards identification

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



flame

Flam. Liq. 3 H226 Flammable liquid and vapour.



STOT SE 3 H336 May cause drowsiness or dizziness.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
 The product is classified and labelled according to the GB CLP regulation.
- **Hazard pictograms**



GHS02 GHS07

- **Signal word** Warning
- **Hazard-determining components of labelling:**  
 n-butyl acetate
- **Hazard statements**  
 H226 Flammable liquid and vapour.  
 H336 May cause drowsiness or dizziness.
- **Precautionary statements**  
 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

(Contd. on page 2)



# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 17.05.2023

Version number 4

Revision: 17.05.2023

**Trade name: SWIN HS BINDER**

(Contd. of page 1)

- P240 Ground and bond container and receiving equipment.
- P241 Use explosion-proof [electrical/ventilating/lighting] equipment.
- P243 Take action to prevent static discharges.
- P271 Use only outdoors or in a well-ventilated area.
- P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
- P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Additional information:**  
Contains methyl methacrylate. May produce an allergic reaction.
  - **2.3 Other hazards -**
  - **Results of PBT and vPvB assessment**
  - **PBT:** Not applicable.
  - **vPvB:** Not applicable.

### 3 Composition/information on ingredients

- **3.2 Chemical characterisation: Mixtures**
- **Description:** Mixture of substances listed below with nonhazardous additions.

- **Dangerous components:**

CAS: 123-86-4 EINECS: 204-658-1 Reg.nr.: 01-2119485493-29-XXXX	n-butyl acetate	10-25%
	⚠ Flam. Liq. 3, H226; ⚠ STOT SE 3, H336	
CAS: 108-65-6 EINECS: 203-603-9 Reg.nr.: 01-2119475791-29-XXXX	2-methoxy-1-methylethyl acetate	10-25%
	⚠ Flam. Liq. 3, H226	
CAS: 112-07-2 EINECS: 203-933-3 Reg.nr.: 01-2119475112-47-XXXX	2-butoxyethyl acetate	2.5-10%
	⚠ Acute Tox. 4, H312; Acute Tox. 4, H332	
CAS: 80-62-6 EINECS: 201-297-1 Reg.nr.: 01-2119452498-28-XXXX	methyl methacrylate	≤2.5%
	⚠ Flam. Liq. 2, H225; ⚠ Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335	

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

### 4 First aid measures

- **4.1 Description of first aid measures**
- **General information:** Personal protection for the First Aider.
- **After inhalation:**  
Supply fresh air.  
Seek medical treatment in case of complaints.
- **After skin contact:**  
Immediately wash with water and soap and rinse thoroughly.  
If skin irritation continues, consult a doctor.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** Do not induce vomiting; call for medical help immediately.
- **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**  
No further relevant information available.

GB

(Contd. on page 3)



# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 17.05.2023

Version number 4

Revision: 17.05.2023

Trade name: SWIN HS BINDER

(Contd. of page 2)

## 5 Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** Mouth respiratory protective device.

## 6 Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.  
Ensure adequate ventilation
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to section 13.
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.

## 7 Handling and storage

- **7.1 Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Restrict the quantity stored at the work place.
- **Information about fire - and explosion protection:**  
Fumes can combine with air to form an explosive mixture.  
Flammable gas-air mixtures may form in empty receptacles.  
Keep ignition sources away - Do not smoke.  
Use explosion-proof apparatus / fittings and spark-proof tools.  
Protect against electrostatic charges.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Provide solvent resistant, sealed floor.  
Suitable material for receptacles and pipes: steel or stainless steel.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed.
- **7.3 Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

- **8.1 Control parameters**
- **Additional information about design of technical facilities:** No further data; see section 7.

· **Ingredients with limit values that require monitoring at the workplace:**

123-86-4 n-butyl acetate

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

(Contd. on page 4)



# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 17.05.2023

Version number 4

Revision: 17.05.2023

**Trade name: SWIN HS BINDER**

(Contd. of page 3)

**108-65-6 2-methoxy-1-methylethyl acetate**

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

**112-07-2 2-butoxyethyl acetate**

WEL Short-term value: 332 mg/m<sup>3</sup>, 50 ppm  
 Long-term value: 133 mg/m<sup>3</sup>, 20 ppm  
 Sk

**80-62-6 methyl methacrylate**

WEL Short-term value: 416 mg/m<sup>3</sup>, 100 ppm  
 Long-term value: 208 mg/m<sup>3</sup>, 50 ppm

· **Additional information:** The lists valid during the making were used as basis.

· **8.2 Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.  
 Wash hands before breaks and at the end of work.  
 Do not inhale gases / fumes / aerosols.  
 Avoid contact with the eyes and skin.

· **Respiratory protection:**

Use suitable respiratory protective device in case of insufficient ventilation.  
 In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.  
 Filter A2/P2

· **Protection of hands:**

Only use chemical-protective gloves with CE-labelling of category III.



Protective gloves

Preventive skin protection by use of skin-protecting agents is recommended.

· **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 exactly calculated in advance and has therefore to be checked prior to the application.

As protection from splashes gloves made of the following materials are suitable:

Nitrile rubber (Ansell Sol-Vex®)

Recommended thickness of the material:  $\geq 0.4$  mm

· **Penetration time of glove material**

Value for the permeation: Level  $\leq 1$

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **For the permanent contact => 480 minutes gloves made of the following materials are suitable:**

HPPE-laminated film (Ansell Barrier®)

· **Eye protection:**



Tightly sealed goggles

· **Body protection:**

Protective clothing, anti-static (TYVEK® CLASSIC PLUS)

(Contd. on page 5)



# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 17.05.2023

Version number 4

Revision: 17.05.2023

Trade name: SWIN HS BINDER

Safety shoes/boots, antstatic

(Contd. of page 4)

## 9 Physical and chemical properties

### · 9.1 Information on basic physical and chemical properties

#### · General Information

#### · Appearance:

· <b>Form:</b>	Fluid
· <b>Colour:</b>	Colourless
· <b>Odour:</b>	Fruit-like
· <b>Odour threshold:</b>	Not determined.

· **pH-value** Not applicable.

#### · Change in condition

· <b>Melting point/freezing point:</b>	Undetermined.
· <b>Initial boiling point and boiling range:</b>	127 °C

· **Flash point:** 23 - 60 °C

· **Flammability (solid, gas):** Flammable.

· **Auto-ignition temperature:** 315 °C

· **Decomposition temperature:** Not determined.

· **Ignition temperature:** Product is not selfigniting.

· **Explosive properties:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

#### · Explosion limits:

· <b>Lower:</b>	1.2 Vol %
· <b>Upper:</b>	10.8 Vol %

· **Vapour pressure at 20 °C:** 10.7 hPa

#### · Vapour pressure:

· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not determined.
· <b>Evaporation rate</b>	Not determined.

#### · Solubility in / Miscibility with water:

Not miscible or difficult to mix.

· **Partition coefficient: n-octanol/water:** Not determined.

· **Viscosity:** DIN 53211 (6 mm) - 38 sec

· **Dynamic:** Not determined.

· **Kinematic at 20 °C:** 100 s (ISO 6 mm)

· **9.2 Other information** No further relevant information available.

## 10 Stability and reactivity

· **10.1 Reactivity** No further relevant information available.

#### · 10.2 Chemical stability

· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

· **10.3 Possibility of hazardous reactions** No dangerous reactions known.

· **10.4 Conditions to avoid** No further relevant information available.

· **10.5 Incompatible materials:** No further relevant information available.

(Contd. on page 6)



# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 17.05.2023

Version number 4

Revision: 17.05.2023

Trade name: SWIN HS BINDER

(Contd. of page 5)

· **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

## 11 Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

· **LD/LC50 values relevant for classification:**

**123-86-4 n-butyl acetate**

Oral	LD50	13,100 mg/kg (rat)
Dermal	LD50	> 5,000 mg/kg (rabbit)
Inhalative	LC50/4 h	> 21 mg/l (rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Additional toxicological information:**
- **CMR effects (carcinogenicity, 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** Based on available data, the classification criteria are not met.

## 12 Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **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 1 (German Regulation) (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

## 13 Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**  
15 00 00: WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED  
15 01 00: packaging (including separately collected municipal packaging waste)  
15 01 10\*: packaging containing residues of or contaminated by dangerous substances

(Contd. on page 7)



# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 17.05.2023

Version number 4

Revision: 17.05.2023

Trade name: SWIN HS BINDER

(Contd. of page 6)

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

## 14 Transport information

<ul style="list-style-type: none"> <li>· 14.1 UN-Number</li> <li>· ADR, ADN, IMDG</li> <li>· IATA</li> </ul>	<p style="margin: 0;">not regulated UNI263</p>
<ul style="list-style-type: none"> <li>· 14.2 UN proper shipping name</li> <li>· ADR, ADN, IMDG</li> <li>· IATA</li> </ul>	<p style="margin: 0;">not regulated PAINT</p>
<ul style="list-style-type: none"> <li>· 14.3 Transport hazard class(es)</li> <li>· ADR, ADN, IMDG</li> <li>· Class</li> </ul>	<p style="margin: 0;">not regulated</p>
<ul style="list-style-type: none"> <li>· IATA</li> </ul> <div style="text-align: center; margin: 10px 0;"> </div> <ul style="list-style-type: none"> <li>· Class</li> <li>· Label</li> </ul>	<p style="margin: 0;">3 Flammable liquids. 3</p>
<ul style="list-style-type: none"> <li>· 14.4 Packing group</li> <li>· ADR, IMDG</li> <li>· IATA</li> </ul>	<p style="margin: 0;">not regulated III</p>
<ul style="list-style-type: none"> <li>· 14.5 Environmental hazards:</li> <li>· Marine pollutant:</li> </ul>	<p style="margin: 0;">No</p>
<ul style="list-style-type: none"> <li>· 14.6 Special precautions for user</li> </ul>	<p style="margin: 0;">Not applicable.</p>
<ul style="list-style-type: none"> <li>· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</li> </ul>	<p style="margin: 0;">Not applicable.</p>
<ul style="list-style-type: none"> <li>· Transport/Additional information:</li> </ul>	<p style="margin: 0;">No dangerous goods in containers of 450 litres max. capacity acc. to ADR 2.2.3.1.5.1</p>
<ul style="list-style-type: none"> <li>· ADR</li> <li>· Remarks:</li> </ul>	<p style="margin: 0;">No dangerous goods in containers of 450 litres max. capacity acc. to ADR 2.2.3.1.5.1</p>
<ul style="list-style-type: none"> <li>· IMDG</li> <li>· Limited quantities (LQ)</li> <li>· Excepted quantities (EQ)</li> <li>· Remarks:</li> </ul>	<p style="margin: 0;">5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml No dangerous goods in containers of 30 litres max. capacity acc. to IMDG 2.2.3.1.5</p>
<ul style="list-style-type: none"> <li>· UN "Model Regulation":</li> </ul>	<p style="margin: 0;">not regulated</p>

## 15 Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- Directive 2012/18/EU
- Named dangerous substances - ANNEX I None of the ingredients is listed.
- Seveso category P5c FLAMMABLE LIQUIDS
- Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t

(Contd. on page 8)



# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 17.05.2023

Version number 4

Revision: 17.05.2023

**Trade name: SWIN HS BINDER**

(Contd. of page 7)

- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 50,000 t
- **National regulations:**
- **Information about limitation of use:**  
Employment restrictions concerning pregnant and lactating women must be observed.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 16 Other information

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

- **Relevant phrases**

H225 Highly flammable liquid and vapour.

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.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

- **Department issuing SDS: -**

- **Contact: -**

- **Abbreviations and acronyms:**

ADR: Accord relatif au transport international 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 Harmonised 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

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids – Category 2

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Skin Sens. 1: Skin sensitisation – Category 1

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3