

Printing date 15.02.2024 Version number 2 (replaces version 1)

rsion number 2 (replaces version 1) Revision: 15.02.2024

I Identification of the substance/mixture and of the company/undertaking

- · 1.1 Product identifier CODE 3003
- · Trade name: SWIN 2K HÄRTER NORMAL
- · Article number: 30-100-1, 30-100-2,5, 30-100-5, 30-100-10
- · **UFI:** FT10-T08W-X001-QK9H
- · 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 Hardening agent/ Curing agent
- · 1.3 Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

Swin Lacksysteme GmbH

Boschweg 5

D-48351 Everswinkel

info@swin-lack.de

· Further information obtainable from:

Laboratory department

- +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



GHS02 flame

Flam. Lig. 3 H226 Flammable liquid and vapour.



GHS08 health hazard

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.



GHS07

Acute Tox. 4 H332 Harmful if inhaled. Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation. Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H335 May cause an altergic skin reaction.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

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Safety data sheet according to 1907/2006/EC, Article 31

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· Hazard pictograms







GHS02 GHS07

· **Signal word** Danger

· Hazard statements

H226 Flammable liquid and vapour.

H332 Harmful if inhaled.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

H373 May cause damage to organs through prolonged or repeated exposure.

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, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

P260 Do not breathe dust/fume/gas/mist/vapours/spray. 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].

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

· 2.3 Other hazards -

· Results of PBT and vPvB assessment

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

3 Composition/information on ingredients

· 3.2 Mixtures

• **Description:** Mixture of substances listed below with nonhazardous additions.

	CAS: 28182-81-2 Hexamethylen-1,6-diisocyanat Homopolymer REACH Registrierungsnummer: 01-2119457571-37-0000 Konzentration (Gew%): < 0,1	50-100%
CAS: 1330-20-7 EINECS: 215-535-7 Reg.nr.: 01-2119488216-32-XXXX	xylene \$\infty\$ Flam. Liq. 3, H226; \$\infty\$ STOT RE 2, H373; Asp. Tox. 1, H304; \$\infty\$ Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	10-25%
CAS: 123-86-4 EINECS: 204-658-1 Reg.nr.: 01-2119485493-29-XXXX	n-butyl acetate ♠ Flam. Liq. 3, H226; ♠ STOT SE 3, H336, EUH066	10-25%

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CAS: 108-65-6	2-methoxy-1-methylethyl acetate	2.5-10%
EINECS: 203-603-9 Reg.nr.: 01-2119475791-29-XXXX	♦ Flam. Liq. 3, H226	
CAS: 64742-95-6	Solvent naphtha (petroleum), light arom.	2.5-10%
EINECS: 265-199-0 Reg.nr.: 01-2119486773-24-XXXX	♦ Asp. Tox. 1, H304; ♦ Aquatic Chronic 2, H411; ♦ Acute Tox. 4, H332; STOT SE 3, H335	
CAS: 4083-64-1	4-isocyanatosulphonyltoluene	≤2.5%
EINECS: 223-810-8 Reg.nr.: 01-2119980050-47-XXXX	Resp. Sens. 1, H334; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335, EUH014, EUH204	
	Specific concentration limits: Eye Irrit. 2; H319: C ≥ 5 %	
	STOT SE 3; H335: C ≥ 5 %	
	Skin Irrit. 2; H315: C ≥ 5 %	

[·] 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.
- · 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.

5 Firefighting measures

- · 5.1 Extinguishing media
- · Suitable extinguishing agents:

CO2, 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.

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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.

TRGS 430 Isocyanate - Exposition und Überwachung beachten.

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

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

123-86-4 n-butyl acetate

IOELV Short-term value: 723 mg/m³, 150 ppm Long-term value: 241 mg/m³, 50 ppm

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

IOELV Short-term value: 550 mg/m³, 100 ppm Long-term value: 275 mg/m³, 50 ppm

Skin

- · Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- · Appropriate engineering controls No further data; see section 7.
- · Individual protection measures, such as personal protective equipment
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

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

· Hand protection

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



Protective gloves

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

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· 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: ≥ 0.4 mm

· Penetration time of glove material

Value for the permeation: Level ≤ 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-laminatet film (Ansell Barrier®)
- · Eye/face protection



Tightly sealed goggles

· Body protection:

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

Safety shoes/boots, antstatic

9 Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

Physical state
Colour:
Odour:
Odour threshold:
Melting point/freezing point:
Fluid
Colourless
Aromatic
Not determined.
Undetermined.

· Boiling point or initial boiling point and boiling

range 124 °C • Flammability Flammable.

Lower and upper explosion limit

Lower: 1.1 Vol %
Upper: 10.8 Vol %
Flash point: 23 - 60 °C
Auto-ignition temperature: 315 °C
Decomposition temperature: Not determine the period of the p

• Decomposition temperature: Not determined. • pH-value Not applicable.

· Viscosity:

• Kinematic viscosity at 20 °C 24 s (ISO 3 mm)
• Dynamic: Not determined.

·Solubility

· water: Not miscible or difficult to mix.

• Partition coefficient n-octanol/water (log value) Not determined. • Vapour pressure at 20 °C: 10.7 hPa

· Density and/or relative density

· Relative density Not determined.

· Density

· Vapour density Not determined.

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· 9.2 Other information

· Appearance:

· Form: Fluid

· Important information on protection of health and

environment, and on safety.

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

Explosive properties: Product is not explosive. However, formation of

explosive air/vapour mixtures are possible.

· Change in condition

• Evaporation rate Not determined.

· Information with regard to physical hazard classes

Explosives Void
Flammable gases Void
Aerosols Void
Oxidising gases Void
Gases under pressure Void

• Flammable liquids Flammable liquid and vapour.

Flammable solids
 Self-reactive substances and mixtures
 Pyrophoric liquids
 Pyrophoric solids
 Self-heating substances and mixtures
 Substances and mixtures, which emit flammable gases in contact with water

· Substances and mixtures, which emit flammable gases in contact with water Void · Oxidising liquids Void · Oxidising solids Void · Organic peroxides Void · Corrosive to metals Void · Desensitised explosives

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

11 Toxicological information

- · 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- · Acute toxicity Harmful if inhaled.
- · Skin corrosion/irritation Causes skin irritation.
- · Serious eye damage/irritation Causes serious eye irritation.
- · Respiratory or skin sensitisation
- Persons already sensitised to may develop allergic reactions when using this product.
- Persons suffering from asthma, eczema or skin problems should avoid contact with this product. May cause an allergic skin reaction.
- · 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 respiratory irritation.
- · STOT-repeated exposure May cause damage to organs through prolonged or repeated exposure.

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- · Aspiration hazard May be fatal if swallowed and enters airways.
- · 11.2 Information on other hazards
- · Endocrine disrupting properties

None of the ingredients is listed.

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.
- 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

- · 12.7 Other adverse effects
- · Remark: Harmful to fish
- · Additional ecological information:
- · General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system.

Harmful to aquatic organisms

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.

· European	· European waste catalogue		
08 00 00	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS		
08 01 00	wastes from MFSU and removal of paint and varnish		
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances		

· 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

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

14 Transport information		
· 14.1 UN number or ID number · ADR, IMDG, IATA	UN1263	
· 14.2 UN proper shipping name · ADR	1263 PAINT RELATED MATERIAL	
· IMDG, IATA	PAINT RELATED MATERIAL	

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14.3 Transport hazard class(es)	
ADR, IMDG, IATA	
•	
Class.	2 Elammahla liguida
Class Label	3 Flammable liquids. 3
	3
14.4 Packing group	111
ADR, IMDG, IATA	III
14.5 Environmental hazards:	
Marine pollutant:	No
14.6 Special precautions for user	Warning: Flammable liquids.
Hazard identification number (Kemler code):	30
EMS Number:	<i>F-E,<u>S-E</u></i>
Stowage Category	A
14.7 Maritime transport in bulk according to IM	
instruments	Not applicable.
Transport/Additional information:	
4DR	
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":	UN 1263 PAINT RELATED MATERIAL, 3, III
G	, = ,

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
- Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t
- · REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment Annex II

None of the ingredients is listed.

- · REGULATION (EU) 2019/1148
- · Annex I RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

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· Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

· Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

- · 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
- H226 Flammable liquid and vapour.
- H304 May be fatal if swallowed and enters airways.
- H312 Harmful in contact with skin.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H411 Toxic to aquatic life with long lasting effects.
- EUH014 Reacts violently with water.
- EUH066 Repeated exposure may cause skin dryness or cracking.
- EUH204 Contains isocyanates. May produce an allergic reaction.
- Department issuing SDS: -
- · Contact: -
- Date of previous version: 06.02.2024
- · Version number of previous version: 1
- · 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)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 4: Acute toxicity - Category 4

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

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Resp. Sens. 1: Respiratory sensitisation – Category 1

Skin Sens. 1: Skin sensitisation – Category 1

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

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Asp. Tox. 1: Aspiration hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3