

**SAFETY DATA SHEET**

# SÜDWEST Metall-Klarlack glänzend

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**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

**1.1 Product identifier**

Trade name SÜDWEST Metall-Klarlack glänzend

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

Clear coating material, Varnish

Uses advised against This information is not available.

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

SÜDWEST Lacke + Farben GmbH & Co.KG  
Iggelheimer Str. 13  
D - 67459 Böhl-Iggelheim  
Telephone: (+49)6324/709-0  
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E-mail address of person responsible for the SDS  
European Union [sdb@suedwest.de](mailto:sdb@suedwest.de)

**1.4 Emergency telephone number**  
European Union

Phone: +44 (0)1235 239 670

**SECTION 2: HAZARDS IDENTIFICATION**

**2.1 Classification of the substance or mixture**

**Classification (REGULATION (EC) No 1272/2008)**

Aerosols, Category 1 H222: Extremely flammable aerosol.

H229: Pressurised container: May burst if heated.

# SÜDWEST Metall-Klarlack glänzend

Eye irritation, Category 2	H319: Causes serious eye irritation.
Specific target organ toxicity - single exposure, Category 3, Central nervous system	H336: May cause drowsiness or dizziness.
Chronic aquatic toxicity, Category 3	H412: Harmful to aquatic life with long lasting effects.

## 2.2 Label elements

### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms



Signal word	Danger	
Hazard statements	H222 H229  H319 H336 H412	Extremely flammable aerosol. Pressurised container: May burst if heated.  Causes serious eye irritation. May cause drowsiness or dizziness. Harmful to aquatic life with long lasting effects.
Supplemental Hazard Statements	EUH066	Repeated exposure may cause skin dryness or cracking.
Precautionary statements	P102 <b>Prevention:</b> P210  P211  P251 P260 <b>Storage:</b> P410 + P412  <b>Disposal:</b> P501	Keep out of reach of children.  Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Do not breathe spray.  Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.  Contents/container to be disposed of through approved disposal contractor or taken to municipal collection point.

# SÜDWEST Metall-Klarlack glänzend

Hazardous components  
which must be listed on  
the label:

acetone

## 2.3 Other hazards

Results of PBT and vPvB assessment  
Not applicable

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2 Mixtures

#### Hazardous components

Chemical name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration (% w/w)
acetone	67-64-1 200-662-2 01-2119471330-49- XXXX	Flam. Liq.2; H225 Eye Irrit.2; H319 STOT SE3; H336	≥ 25 - < 50
propane	74-98-6 200-827-9 01-2119486944-21- XXXX	Flam. Gas1; H220 Press. GasH280 Note U (Table 3.1)	≥ 12,5 - ≤ 20
butane (containing < 0.1% butadiene (203- 450-8))	106-97-8 203-448-7 01-2119474691-32- XXXX	Flam. Gas1; H220 Press. GasH280 Note U (Table 3.1), Note C	≥ 12,5 - ≤ 20
Hydrocarbons, C9, aromatics	64742-95-6  01-2119455851-35- XXXX	Asp. Tox.1; H304 Flam. Liq.3; H226 STOT SE3; H335, H336 Aquatic Chronic2; H411  Note H (Table 3.1), Note P The CAS number is no longer specified in REACH	≥ 5 - < 10

# SÜDWEST Metall-Klarlack glänzend

		registration, but still serves as identification in other areas.	
isobutane	75-28-5 200-857-2 01-2119485395-27-XXXX	Flam. Gas1; H220 Press. GasH280 Note C	≥ 5 - ≤ 10
xylene (mixture of isomers)	1330-20-7 215-535-7 01-2119488216-32-XXXX	Flam. Liq.3; H226 Acute Tox.4; H332 Acute Tox.4; H312 Skin Irrit.2; H315 Eye Irrit.2; H319 STOT SE3; H335 STOT RE2; H373 Asp. Tox.1; H304	≥ 2,5 - < 5
n-butyl acetate	123-86-4 204-658-1 01-2119485493-29-xxxx	Flam. Liq.3; H226 STOT SE3; H336	≥ 2,5 - ≤ 5
ethylbenzene	100-41-4 202-849-4 01-2119489370-35-XXXX	Flam. Liq.2; H225 Asp. Tox.1; H304 Acute Tox.4; H332 STOT RE2; H373 Aquatic Chronic3; H412	< 2,5
Substances with a workplace exposure limit :			
2-methoxy-1-methylethyl acetate	108-65-6 203-603-9 01-2119475791-29-XXXX	Flam. Liq.3; H226	≥ 5 - < 10

For explanation of abbreviations see section 16.

## SECTION 4: FIRST AID MEASURES

### 4.1 Description of first aid measures

#### General advice

When symptoms persist or in all cases of doubt seek medical advice.  
Never give anything by mouth to an unconscious person.  
If unconscious place in recovery position and seek medical advice.

#### Inhalation

Move to fresh air in case of accidental inhalation of vapours or decomposition products.

# SÜDWEST Metall-Klarlack glänzend

	<p>Keep patient warm and at rest. If breathing is irregular or stopped, administer artificial respiration. If symptoms persist, call a physician.</p>
Skin contact	<p>Take off contaminated clothing and shoes immediately. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners. If skin irritation persists, call a physician.</p>
Eye contact	<p>In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek medical advice.</p>
Ingestion	<p>Rinse mouth with water. If swallowed, seek medical advice immediately and show this container or label. Keep at rest. Do NOT induce vomiting.</p>

## 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 Treat symptomatically.  
No information available.

## SECTION 5: FIREFIGHTING MEASURES

### 5.1 Extinguishing media

Suitable extinguishing media CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Unsuitable extinguishing media High volume water jet

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

Fire may cause evolution of:  
Carbon monoxide  
Carbon dioxide (CO<sub>2</sub>)  
Nitrogen oxides (NO<sub>x</sub>)  
Exposure to decomposition products may be a hazard to health.  
Cool closed containers exposed to fire with water spray.

### 5.3 Advice for firefighters

In the event of fire, wear self-contained breathing apparatus. Fight fire with normal precautions from a reasonable distance.

# SÜDWEST Metall-Klarlack glänzend

Additional advice

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Remove all sources of ignition.  
Ensure adequate ventilation.  
Do not breathe vapour.  
Prevent unauthorized access.

### 6.2 Environmental precautions

The product should not be allowed to enter drains, water courses or the soil.  
If the product contaminates rivers and lakes or drains inform respective authorities.

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

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).  
Clean with detergents. Avoid solvents.  
Clean contaminated surface thoroughly.  
Dispose of contaminated material as waste according to item 13.

### 6.4 Reference to other sections

Refer to protective measures listed in sections 7 and 8.

## SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Advice on safe handling

Comply with the statutory regulations on health and safety at work.  
Avoid formation of aerosol.  
Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limit values.  
The product should only be used in areas from which all naked lights and other sources of ignition have been excluded.  
All metal parts of the mixing and processing equipment must be earthed.  
Operators should wear antistatic footwear and clothing. No sparking tools should be used.

# SÜDWEST Metall-Klarlack glänzend

Hygiene measures

Do not breathe spray, vapour.  
Take off immediately all contaminated clothing.  
Avoid contact with skin, eyes and clothing.  
Wash hands before breaks and immediately after handling the product.  
After washing hands, replenish lost skin oil by means of oily skin ointment.  
When using do not eat, drink or smoke.

## 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

Store in original container.  
Keep container tightly closed. Never use pressure to empty: container is not a pressure vessel. Nosmoking.  
Prevent unauthorized access.  
Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
Keep in a well-ventilated place.  
Protect from frost, heat and sunlight.

Advice on protection against fire and explosion

Vapours are heavier than air and may spread along floors.  
Vapours may form explosive mixtures with air.  
Keep away from sources of ignition - No smoking.  
Take measures to prevent the build up of electrostatic charge.

Advice on common storage

Keep away from combustible materials.  
Keep away from food, drink and animal feedingstuffs.  
Keep away from oxidizing agents and strongly acid or alkaline materials.

**7.3 Specific end use(s)**

For further information, see also Technical Data Sheet for the product.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

#### Exposure limit(s)

Components		CAS-No.
Basis	Type:	Control parameters
acetone		67-64-1
2000/39/EC	Limit Value - eight hours	1.210 mg/m <sup>3</sup>
2000/39/EC	Limit Value - eight hours	500 ppm
Additional advice:	Indicative	

# SÜDWEST Metall-Klarlack glänzend

2-methoxy-1-methylethyl acetate		108-65-6
2000/39/EC	Short term exposure limit	550 mg/m <sup>3</sup>
2000/39/EC	Short term exposure limit	100 ppm
Additional advice:	Identifies the possibility of significant uptake through the skin Indicative	
2000/39/EC	Limit Value - eight hours	275 mg/m <sup>3</sup>
2000/39/EC	Limit Value - eight hours	50 ppm
Additional advice:	Identifies the possibility of significant uptake through the skin Indicative	
xylene (mixture of isomers)		1330-20-7
2000/39/EC	Limit Value - eight hours	221 mg/m <sup>3</sup>
2000/39/EC	Limit Value - eight hours	50 ppm
Additional advice:	Identifies the possibility of significant uptake through the skin Indicative	
2000/39/EC	Short term exposure limit	442 mg/m <sup>3</sup>
2000/39/EC	Short term exposure limit	100 ppm
Additional advice:	Identifies the possibility of significant uptake through the skin Indicative	
ethylbenzene		100-41-4
2000/39/EC	Limit Value - eight hours	442 mg/m <sup>3</sup>
2000/39/EC	Limit Value - eight hours	100 ppm
Additional advice:	Identifies the possibility of significant uptake through the skin Indicative	
2000/39/EC	Short term exposure limit	884 mg/m <sup>3</sup>
2000/39/EC	Short term exposure limit	200 ppm
Additional advice:	Identifies the possibility of significant uptake through the skin Indicative	

The lists that were valid during the creation were used as basis.

## 8.2 Exposure controls

### Appropriate engineering controls

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 concentrations of particulates solvent vapour below the occupational exposure limit values, suitable respiratory protection must be worn. Washing facilities / water for rinsing eyes and skin should be available.

### Individual protection measures, such as personal protective equipment



# SÜDWEST Metall-Klarlack glänzend

- a) Eye/face protection      Safety glasses with side-shields conforming to EN166
- b) Skin protection  
Hand protection      Break through time: 60 min  
Minimum thickness: 0,7 mm  
e.g. KCL 898 "Butoject®" - butyl rubber protective glove -  
(Kächele-Cama-Latex GmbH, Hotline: 0049(0)6659-87-300,  
kcl-uk@kcl.de) or equal.
- Dispose of wetted gloves at the end of the shift!
- Skin that comes into contact with the product should be treated with protective cream. After such contact, the product concerned should under no circumstances be used.
- The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.  
The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other.
- Body Protection      Preventive skin protection  
Long sleeved clothing  
Personal should wear antistatic clothings made of natural fiber or of high temperature resistant synthetic fiber. All parts of the body should be washed after contact.
- c) Respiratory protection      When workers are facing concentrations above the occupational exposure limit values they must use appropriate certified respirators.  
Breathing protection equipment required in inadequately ventilated places and during spraying.  
In order to avoid inhalation of spray-mist and sanding dust, all spraying and sanding must be done wearing adequate respirator.  
Combination filter A-P2  
Respiratory protection complying with EN 14387.

## Environmental exposure controls

- General advice      The product should not be allowed to enter drains, water courses or the soil.  
If the product contaminates rivers and lakes or drains inform respective authorities.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

# SÜDWEST Metall-Klarlack glänzend

Appearance	aerosol
Colour	various
Odour	characteristic
Odour Threshold	not determined
pH	not determined
Melting point/freezing point	not determined
Initial boiling point and boiling range	Not applicable
Flash point	Not applicable, as aerosol.
Evaporation rate	Not applicable
Flammability (solid, gas)	Not applicable
Lower explosion limit	1,5 %(V)
Upper explosion limit	13,0 %(V)
Vapour pressure	8.300 hPa, 20 °C
Vapour density	No data available
Density	ca. 0,71 g/cm <sup>3</sup> , 20 °C
Solubility(ies)(Water)	immiscible
Partition coefficient: n-octanol/water	not determined
Auto-ignition temperature	not auto-flammable
Ignition temperature	ca. 315 °C
Viscosity, dynamic	not determined
Explosive properties	In use may form flammable/explosive vapour-air mixture.
Oxidizing properties	Not applicable

## 9.2 Other information

Flow time	No data available
Solid content	11 %

# SÜDWEST Metall-Klarlack glänzend

## SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity

No dangerous reaction known under conditions of normal use.

### 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. Vapours may form explosive mixture with air.
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### 10.4 Conditions to avoid

Conditions to avoid	Direct sources of heat. Strong sunlight for prolonged periods. Avoid heating over 50 °C.
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### 10.5 Incompatible materials

Materials to avoid	Strong acids and strong bases Strong oxidizing agents
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### 10.6 Hazardous decomposition products

Hazardous decomposition products	No decomposition if stored and applied as directed.
Decomposition temperature	No data available

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Product

Acute oral toxicity	Based on available data, the classification criteria are not met.
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Acute inhalation toxicity	Acute toxicity estimate : > 20 mg/l Exposure time: 4 h Test atmosphere: vapour
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# SÜDWEST Metall-Klarlack glänzend

Method: Calculation method

Acute dermal toxicity

Acute toxicity estimate : > 2.000 mg/kg

Method: Calculation method

Skin corrosion/irritation

Repeated exposure may cause skin dryness or cracking.

Serious eye damage/eye  
irritation

Causes serious eye irritation.

Respiratory or skin  
sensitisation

Based on available data, the classification criteria are not met.

Germ cell mutagenicity  
Genotoxicity in vitro

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity  
Effects on fertility

Based on available data, the classification criteria are not met.

Developmental 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.

Human experience

Exposure to component solvent vapours concentration in excess of the stated occupational exposure limit may result in adverse health effects.

# SÜDWEST Metall-Klarlack glänzend

Such as: mucous membrane irritation, respiratory system irritation, adverse effects on kidney, liver and central nervous system. Symptoms and signs: headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases loss of consciousness. Long-term or repeated contact with the product leads to degreasing of the skin and can cause nonallergenic contact skin damage (contact dermatitis) and / or the resorption of substances.

Solvent sprays can cause irritation and reversible damage to the eye.

## Further information

The product itself has not been tested. The mixture is classified in accordance with Annex I to EC Directive 1272/2008. (See sections 2 and 3 for details).

### Components:

#### **acetone :**

Skin corrosion/irritation                      Repeated exposure may cause skin dryness or cracking.

Serious eye damage/eye irritation                      Causes serious eye irritation.

STOT - single exposure                      Exposure routes: Inhalation  
May cause drowsiness or dizziness.

### **Hydrocarbons, C9, aromatics :**

Skin corrosion/irritation                      Repeated exposure may cause skin dryness or cracking.

STOT - single exposure                      Exposure routes: Inhalation  
May cause respiratory irritation., May cause drowsiness or dizziness.

Aspiration hazard                              May be fatal if swallowed and enters airways.

### **xylene (mixture of isomers) :**

# SÜDWEST Metall-Klarlack glänzend

Acute inhalation toxicity	LC50 Rat: 11 mg/l Exposure time: 4 h Test atmosphere: vapour
Acute dermal toxicity	Harmful in contact with skin.
Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/eye irritation	Causes serious eye irritation.
STOT - single exposure	Exposure routes: Inhalation May cause respiratory irritation.
STOT - repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	May be fatal if swallowed and enters airways.
<b>n-butyl acetate :</b> Acute oral toxicity	LD50 Rat: 10.760 mg/kg
Acute inhalation toxicity	LC50 Rat: 23,4 mg/l Exposure time: 4 h Method: OECD Test Guideline 403
Acute dermal toxicity	LD50 Rabbit: > 14.112 mg/kg Method: OECD Test Guideline 402
Skin corrosion/irritation	Repeated exposure may cause skin dryness or cracking.
STOT - single exposure	Exposure routes: inhalation (vapour)

# SÜDWEST Metall-Klarlack glänzend

May cause drowsiness or dizziness.

**ethylbenzene :**

Acute inhalation toxicity Harmful if inhaled.

STOT - repeated exposure May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard May be fatal if swallowed and enters airways.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1 Toxicity

**Product:**

Toxicity to fish No data available

### 12.2 Persistence and degradability

**Product:**

Biodegradability No data available

**Components:**

**Hydrocarbons, C9, aromatics :**

Biodegradability Result: rapidly degradable

**n-butyl acetate :**

Biodegradability Result: rapidly degradable  
Biodegradation: > 90 %  
Exposure time: 28 d

### 12.3 Bioaccumulative potential

**Product:**

Bioaccumulation No data available

# SÜDWEST Metall-Klarlack glänzend

## Components:

### **propane :**

Partition coefficient: n-  
octanol/water log Pow: 2,36

### **isobutane :**

Partition coefficient: n-  
octanol/water log Pow: 2,76

### **xylene (mixture of isomers) :**

Partition coefficient: n-  
octanol/water log Pow: > 3

### **n-butyl acetate :**

Partition coefficient: n-  
octanol/water log Pow: 2,3Method: OECD Test Guideline 117

### **2-methoxy-1-methylethyl acetate :**

Partition coefficient: n-  
octanol/water log Pow: 0,43 (20 °C)

## **12.4 Mobility in soil**

### Product:

Mobility No data available

## **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 Do not allow product to enter into ground water, bodies of water or sewage systems. Harmful to aquatic life with long lasting effects.

## Components:

**n-butyl acetate n-butyl acetate :**



# SÜDWEST Metall-Klarlack glänzend

Adsorbed organic bound  
halogens (AOX)

Product does not contain any organic halogens.

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

Product	The user is responsible for proper coding and marking of any waste. When used as recommended, the waste code can be selected according to the code of the European Waste Catalogue (EWC), category 17.09 "Other Construction and Demolition Waste" If recycling is not practicable, dispose of in compliance with local regulations.
Contaminated packaging	Empty packaging should be recycled through disposal systems.
Waste key for the unused product	08 01 11*: Paint and varnish waste containing organic solvents or other dangerous substances  : (*) hazardous waste in terms of the European directive 91/689/EEC

## SECTION 14: TRANSPORT INFORMATION

### 14.1 UN number

ADR	1950
IMDG	1950
IATA	1950

### 14.2 UN proper shipping name

ADR	AEROSOLS
IMDG	AEROSOLS
IATA	Aerosols, flammable

### 14.3 Transport hazard class(es)

ADR	2.1
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# SÜDWEST Metall-Klarlack glänzend

IMDG 2.1

IATA 2.1

## 14.4 Packing group

### ADR

Packing group Not Assigned

Classification Code 5F

Labels 2.1

Tunnel restriction code (D)

### IMDG

Labels 2.1

EmS number F-D, S-U

### IATA

Labels 2.1

## 14.5 Environmental hazards

### ADR

Environmentally hazardous no

### IMDG

Marine pollutant no

## 14.6 Special precautions for user

Remarks This information is not available.

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

Remarks Not applicable

## Additional advice

# SÜDWEST Metall-Klarlack glänzend

ADR	ADR: Up to 1 l per inner package, transport as limited quantity in accordance with ADR 3.4.
IMDG	IMDG: Up to 1 l per inner package, transport as limited quantity in accordance with IMDG Code 3.4.

## SECTION 15: REGULATORY INFORMATION

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

Directive 2010/75/EU            88,3 %  
   627,1 g/l

Directive 2004/42/EC

Other regulations            does not fall under Directive 2004/42/EC  
Comply with the statutory regulations on health and safety at work.

Take note of Dir 94/33/EC on the protection of young people at work.

Take note of Dir 92/85/EEC on the safety and health at work of pregnant workers.

### 15.2 Chemical Safety Assessment

This information is not available.

## SECTION 16: OTHER INFORMATION

Changes from the previous version are indicated by markings in the left-hand margin.

The information in this Safety Data Sheet corresponds to our present state of knowledge and conforms to both national and EU legislation. The user's working conditions are, however, beyond our knowledge and control. The user is responsible for complying with all necessary legal requirements. The information in this Safety Data Sheet describes the safety requirements of our product and does not constitute any assurance of product properties.

### Full text of H-Statements

H220	: Extremely flammable gas.
H225	: Highly flammable liquid and vapour.
H226	: Flammable liquid and vapour.
H280	: Contains gas under pressure; may explode if heated.

# SÜDWEST Metall-Klarlack glänzend

H304	: May be fatal if swallowed and enters airways.
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.
H373	: May cause damage to organs through prolonged or repeated exposure.
H411	: Toxic to aquatic life with long lasting effects.
H412	: Harmful to aquatic life with long lasting effects.

## Full text of other abbreviations

Acute Tox.	: Acute toxicity
Aquatic Chronic	: Chronic aquatic toxicity
Asp. Tox.	: Aspiration hazard
Eye Irrit.	: Eye irritation
Flam. Gas	: Flammable gases
Flam. Liq.	: Flammable liquids
Press. Gas	: Gases under pressure
Skin Irrit.	: Skin irritation
STOT RE	: Specific target organ toxicity - repeated exposure
STOT SE	: Specific target organ toxicity - single exposure

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure

# SÜDWEST Metall-Klarlack glänzend

Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

## Further information

### Other information

The assessment was carried out in accordance with Article 6 (5) and Appendix I of EC Directive no. 1272/2008.

It is possible in the interim period that you may find different markings on packaging compared to the Material Safety Data Sheet until stocks have been used up. We ask for your understanding in this matter.

Department issuing  
MSDS  
REG\_EU / EN

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