

# Resto<sup>®</sup> SPACHELMASSEN

## Farbige Spachtelmassen für die Holzverarbeitung

Carl-Schurz-Str.155. D-50374 Erftstadt  
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Resto Spachtelmassen - Carl Schurz Str.155. 50374 Erftstadt

### Safety Data Sheet Resto 2k-füllmasse

#### Safety Data Sheet dated 14/07/2016, version 3

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

##### 1.1. Product identifier

Mixture identification:

Trade name: Resto 2k-Füllmasse

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

Recommended use:

Polyester filler for wood

Uses advised against:

Not suitable for use in homemaker (DIY) applications.

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

Supplier:

**Resto Spachtelmassen - Tel. +49(0) 2235-45326 - Fax +49(0)2235- 61542 ( 8.30 – 17.30 )**

Competent person responsible for the safety data sheet:

Ioannis Sotiropoulos,restokitt@aol.com

##### 1.4. Emergency telephone number

**Resto Spachtelmassen - Tel. +49(0) 2235-45326 - Fax +49(0)2235- 61542 ( 8.30 – 17.30 )**

#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP)

Warning, Flam. Liq. 3, Flammable liquid and vapour.

Warning, Skin Irrit. 2, Causes skin irritation.

Warning, Eye Irrit. 2, Causes serious eye irritation.

Warning, Repr. 2, Suspected of damaging the unborn child.

Danger, STOT RE 1, Causes damage to organs through prolonged or repeated exposure.

##### 2.2. Label elements

Symbols:



#### Danger

Hazard statements:

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H361d Suspected of damaging the unborn child.

H372 Causes damage to organs through prolonged or repeated exposure.

Precautionary statements:

P201 Obtain special instructions before use.

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.

P280 Wear protective gloves/clothing and eye/face protection.

P314 Get medical advice/attention if you feel unwell.

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

P403+P235 Store in a well-ventilated place. Keep cool.

Special Provisions:

None

Contains:

styrene

##### 2.3. Other hazards

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### Safety Data Sheet Resto 2k-füllmasse

Menge	Name	Identifikationsnummer	Klassifikation
>= 10% - < 12.5%	Styrol	Index-Nummer: 601-026-00-0 CAS: 100-42-5 EC: 202-851-5 REACH No.: 01-2119457861-32	2.6/3 Flam. Liq. 3 H226 3.7/2 Repr. 2 H361d 3.1/4/Inhal Acute Tox. 4 H332 3.9/1 STOT RE 1 H372 3.2/2 Skin Irrit. 2 H315 3.3/2 Eye Irrit. 2 H319
>= 1% - < 3%	Aromatic hydrocarbons, C8	CAS: 90989-38-1 EC: 292-694-9 REACH No.: 01-2119486136-34	2.6/3 Flam. Liq. 3 H226 3.1/4/Dermal Acute Tox. 4 H312 3.1/4/Inhal Acute Tox. 4 H332 3.10/1 Asp. Tox. 1 H304 3.2/2 Skin Irrit. 2 H315 3.3/2 Eye Irrit. 2 H319 3.8/3 STOT SE 3 H335 3.9/2 STOT RE 2 H373 DECLJ (CLP)*
< 0.1%	(2-methoxymethylethoxy)propanol	CAS: 34590-94-8 EC: 252-104-2 REACH No.: 01-2119450011-60	Substance with a Union workplace exposure limit.

\*DECLJ (CLP): Substance classified in accordance with Note J, Annex VI of EC Regulation (EC) 1272/2008. The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1 % w/w benzene (EINECS No 200-753-7). This note applies only to certain complex coal- and oil-derived substances in Part 3.

#### SECTION 4: First aid measures

##### 4.1. Description of first aid measures

In case of skin contact:

Remove contaminated clothing immediately and dispose off safely.  
After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately  
Protect uninjured eye.

In case of Ingestion:

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.  
If breathing is irregular or stopped, administer artificial respiration.

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

None known

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

#### SECTION 5: Firefighting measures

##### 5.1. Extinguishing media

Suitable extinguishing media:

CO<sub>2</sub>, powder extinguisher, foam, water spray.

Extinguishing media which must not be used for safety reasons:

Water jet.

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

Burning produces heavy smoke.

Do not inhale explosion and/or combustion gases (carbon monoxide, carbon dioxide, oxides of nitrogen).

### Safety Data Sheet Resto 2k-füllmasse

#### 5.3. Advice for firefighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

#### **SECTION 6: Accidental release measures**

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

Remove all sources of ignition.

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

##### 6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

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

Suitable material for collection: inert absorbent material (e.g. sand, vermiculite)

After the product has been recovered, rinse the area and materials involved.

##### 6.4. Reference to other sections

See also section 8 and 13

#### **SECTION 7: Handling and storage**

##### 7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

##### 7.2. Conditions for safe storage, including any incompatibilities

Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.

Keep away from food, drink and feed.

See chapter 10.5

Instructions as regards storage premises:

Keep container tightly closed in a cool, well-ventilated place, away from heat.

##### 7.3. Specific end use(s)

See chapter 1.2

#### **SECTION 8: Exposure controls/personal protection**

##### 8.1. Control parameters

styrene - CAS: 100-42-5

ACGIH - LTE(8h): 20 ppm - STE: 40 ppm - Notes: A4, BEI - CNS impair, URT irr, peripheral neuropathy

WEL -- Country: UNITED KINGDOM - LTE: 430 mg/m<sup>3</sup>, 100 ppm - STE: 1080 mg/m<sup>3</sup>, 250 ppm

Aromatic hydrocarbons, C8 - CAS: 90989-38-1

ACGIH - LTE: 434 mg/m<sup>3</sup>, 100 ppm - STE: 651 mg/m<sup>3</sup>, 150 ppm

(2-methoxymethylethoxy)propanol

- CAS: 34590-94-8

EU - LTE(8h): 308 mg/m<sup>3</sup>, 50 ppm - Notes: Indicative Occupational Exposure Limit Values [2,3] and Limit Values for Occupational Exposure [4] (for references see bibliography)

ACGIH - LTE(8h): 100 ppm - STE: 150 ppm - Notes: Skin - Eye and URT irr, CNS impair  
DNEL Exposure Limit Values

### Safety Data Sheet Resto 2k-füllmasse

styrene - CAS: 100-42-5

Worker Professional: 0.289 mg/l - Consumer: 0.174 mg/l - Exposure: Human Inhalation -  
Frequency: Short Term, systemic effects

Worker Professional: 0.085 mg/l - Consumer: 0.01 mg/l - Exposure: Human Inhalation -  
Frequency: Long Term, systemic effects

Worker Professional: 0.306 mg/l - Consumer: 0.182 mg/l - Exposure: Human Inhalation -  
Frequency: Short Term, local effects

Worker Professional: 406 mg/kg - Consumer: 343 mg/kg - Exposure: Human Dermal -  
Frequency: Long Term, systemic effects

Consumer: 2.1 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects  
Aromatic hydrocarbons, C8 - CAS: 90989-38-1

Worker Professional: 0.077 mg/l - Consumer: 0.0148 mg/l - Exposure: Human Inhalation -  
Frequency: Long Term, systemic effects

Worker Professional: 180 mg/kg - Exposure: Human Dermal - Frequency: Long Term,  
systemic effects

Consumer: 1.6 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

PNEC Exposure Limit Values

styrene - CAS: 100-42-5

Target: Fresh Water - Value: 0.028 mg/l

Target: Marine water - Value: 0.0028 mg/l

Target: Freshwater sediments - Value: 0.614 mg/kg

Target: Marine water sediments - Value: 0.0614 mg/kg

Target: Soil (agricultural) - Value: 0.2 mg/kg

Aromatic hydrocarbons, C8 - CAS: 90989-38-1

Target: Marine water - Value: 0.327 mg/l

Target: Fresh Water - Value: 0.327 mg/l

Target: Marine water sediments - Value: 12.46 mg/kg

Target: Fresh Water - Value: 12.46 mg/kg

Target: Soil (agricultural) - Value: 2.31 mg/kg

#### 8.2. Exposure controls

Eye protection:

Use close fitting safety goggles, don't use eye lens.

Skin protection:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Hands protection:

Use protective gloves that provides comprehensive protection, e.g. NBR (nitrile rubber), FKM (fluoro rubber).

The selection of suitable gloves does not only depend on the material, but also on other quality characteristics and varies from manufacturer to another one, and on the manner and times of use of the mixture.

Respiratory protection:

Combination filtering device (DIN EN 141).

Environmental exposure controls:

See chapter 6.2

Appropriate engineering controls:

See section 7.

### SECTION 9: Physical and chemical properties

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

Appearance and colour: thick paste

Odour: of styrene

Odour threshold: nd

### Safety Data Sheet Resto 2k-füllmasse

pH: nd  
Melting point / freezing point: nd  
Initial boiling point and boiling range: nd  
Solid/gas flammability: na  
Upper/lower flammability or explosive limits: nd  
Vapour density: nd  
Flash point: 34°C ISO 1523:2002-Closed cup equilibrium method  
Evaporation rate: nd  
Vapour pressure: nd  
Relative density: 1.70 ± 0.03  
Solubility in water: not soluble  
Solubility in oil: nd  
Partition coefficient (n-octanol/water): nd  
Auto-ignition temperature: nd  
Decomposition temperature: nd  
Viscosity: nd  
Explosive properties: none  
Oxidizing properties: none  
9.2. Other information  
Miscibility: nd  
Conductivity: nd  
Legend:

na = not applicable - nd = not available

#### **SECTION 10: Stability and reactivity**

##### 10.1. Reactivity

Stable under normal conditions

##### 10.2. Chemical stability

Stable under normal conditions

##### 10.3. Possibility of hazardous reactions

Contact with Organic Peroxides cause a fast mass thickening with considerable development of heat.

Because of heat or fire the preparation can release carbon oxides and vapours which may be harmful to health.

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

##### 10.4. Conditions to avoid

Avoid to keep near heat sources.

High temperature reduces product shelf-life causing spontaneous thickening.

##### 10.5. Incompatible materials

Avoid contact with oxidizing materials or powerful oxidising agents. The product could catch fire.

See chapter 10.3

##### 10.6. Hazardous decomposition products

No hazardous decomposition products when stored and handled correctly.

See chapter 5.2

#### **SECTION 11: Toxicological information**

##### 11.1. Information on toxicological effects

There are no data available on the mixture itself.

Toxicological information of the main substances found in the mixture:

styrene - CAS: 100-42-5

a) acute toxicity:

Test: LC50 - Route: Inhalation Vapour - Species: Rat 11.8 mg/l - Duration: 4h

Test: LD50 - Route: Oral - Species: Rat 5000 mg/kg

Aromatic hydrocarbons, C8 - CAS: 90989-38-1

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#### a) acute toxicity:

Test: LC50 - Route: Inhalation Vapour - Species: Rat 27124 mg/m<sup>3</sup> - Duration: 4h

Test: LD50 - Route: Oral - Species: Rat 3223 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit 12126 mg/kg

If not differently specified, the information required in Regulation (EU)2015/830 listed below must be considered as N.A.:

#### a) acute toxicity;

#### b) skin corrosion/irritation;

#### c) serious eye damage/irritation;

#### d) respiratory or skin sensitisation;

#### e) germ cell mutagenicity;

#### f) carcinogenicity;

#### g) reproductive toxicity;

#### h) STOT-single exposure;

#### i) STOT-repeated exposure;

#### j) aspiration hazard.

### SECTION 12: Ecological information

Adopt sound working practices, so that the product is not released into the environment.

#### 12.1. Toxicity

Ecotoxicological studies of the product are not available.

Ecotoxicological information of the main substances found in the mixture:

styrene - CAS: 100-42-5

#### a) Aquatic acute toxicity:

Endpoint: IC50 - Species: Algae 0.28 mg/l

Aromatic hydrocarbons, C8 - CAS: 90989-38-1

#### a) Aquatic acute toxicity:

Endpoint: IC50 - Species: Algae 2.2 mg/l - Duration h: 72

Endpoint: EC50 - Species: Daphnia 1.0 mg/l - Duration h: 24

Endpoint: LC50 - Species: Fish 2.6 mg/l - Duration h: 96

#### 12.2. Persistence and degradability

N.A.

#### 12.3. Bioaccumulative potential

N.A.

#### 12.4. Mobility in soil

N.A.

#### 12.5. Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

#### 12.6. Other adverse effects

None

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

### SECTION 14: Transport information



#### 14.1. UN number

ADR-UN Number: 3269

IATA-UN Number: 3269

IMDG-UN Number: 3269

### Safety Data Sheet Resto 2k-füllmasse

14.2. UN proper shipping name  
ADR-Shipping Name: POLYESTER RESIN KIT  
IATA-Shipping Name: POLYESTER RESIN KIT  
IMDG-Shipping Name: POLYESTER RESIN KIT  
14.3. Transport hazard class(es)  
ADR-Class: 3  
IATA-Class: 3  
IMDG-Class: 3  
14.4. Packing group  
ADR-Packing Group: III  
IATA-Packing group: III  
IMDG-Packing group: III  
14.5. Environmental hazards  
ADR-Environmental Pollutant: No  
IMDG-Marine pollutant: No  
14.6. Special precautions for user  
ADR-Subsidiary risks: -  
ADR-S.P.: 236 340  
ADR-Tunnel Restriction Code: 3 (E)  
IATA-Passenger Aircraft: 370  
IATA-Subsidiary risks: -  
IATA-Cargo Aircraft: 370  
IATA-S.P.: A66 A163  
IATA-ERG: 3L  
IMDG-EmS: F-E , S-D  
IMDG-Subsidiary risks: -  
IMDG-Storage category: Category A  
IMDG-Storage notes: -  
14.7. Transport in bulk according to Annex II of Marpol and the IBC Code  
N.A.

### SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture  
Dir. 98/24/EC (Risks related to chemical agents at work)  
Dir. 2000/39/EC (Occupational exposure limit values)  
Regulation (EC) n. 1907/2006 (REACH)  
Regulation (EC) n. 1272/2008 (CLP)  
:Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013  
Regulation (EU) 2015/830  
Regulation (EU) n. 286/2011 (ATP 2 CLP)  
Regulation (EU) n. 618/2012 (ATP 3 CLP)  
Regulation (EU) n. 487/2013 (ATP 4 CLP)  
Regulation (EU) n. 944/2013 (ATP 5 CLP)  
Regulation (EU) n. 605/2014 (ATP 6 CLP)  
Volatile Organic compounds - VOCs = 1.19 %  
Volatile CMR substances = 0.00 %  
Halogenated VOCs which are assigned the risk phrase R40 = 0.00 %  
Where applicable, refer to the following Italian regulatory provisions :  
Directive 2003/105/CE ('Activities linked to risks of serious accidents') and subsequent  
amendments.  
1999/13/EC (VOC directive)  
15.2. Chemical safety assessment  
No

### Safety Data Sheet Resto 2k-füllmasse

#### SECTION 16: Other information

Text of phrases referred to under heading 3:

H226 Flammable liquid and vapour.

H361d Suspected of damaging the unborn child.

H332 Harmful if inhaled.

H372 Causes damage to organs through prolonged or repeated exposure.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H312 Harmful in contact with skin.

H304 May be fatal if swallowed and enters airways.

H335 May cause respiratory irritation.

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

Paragraphs modified from the previous revision:

SECTION 2: Hazards identification

SECTION 3: Composition/information on ingredients

SECTION 4: First aid measures

SECTION 8: Exposure controls/personal protection

SECTION 11: Toxicological information

SECTION 12: Ecological information

SECTION 14: Transport information

SECTION 15: Regulatory information

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre,

Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van

Nostrand Reinold

CCNL - Appendix 1 "TLV for 1989-90"

Insert here further consulted bibliography

Safety data sheets of raw materials suppliers.

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

CAS: Chemical Abstracts Service (division of the American Chemical Society).

CLP: Classification, Labeling, Packaging.

DNEL: Derived No Effect Level.

EINECS: European Inventory of Existing Commercial Chemical Substances.

GefStoffVO: Ordinance on Hazardous Substances, Germany.

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

IMDG: International Maritime Code for Dangerous Goods.



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INCI: International Nomenclature of Cosmetic Ingredients.  
KSt: Explosion coefficient.  
LC50: Lethal concentration, for 50 percent of test population.  
LD50: Lethal dose, for 50 percent of test population.  
LTE: Long-term exposure.  
PNEC: Predicted No Effect Concentration.  
RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.  
STE: Short-term exposure.  
STEL: Short Term Exposure limit.  
STOT: Specific Target Organ Toxicity.  
TLV: Threshold Limiting Value.  
TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).  
WGK: German Water Hazard Class.  
N.A. Not Applicable / Not Available

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