

POWERTECH S.R.L. SAFETY DATA SHEET IN ACCORDANCE WITH 91/155/EEC
SKILLED MULTI PUTTY

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY

Trade name :SKILLED MULTI PUTTY

Use of the substance: POLYESTER FILLER

Manufacturer/marketer identification: Powertech s.r.l.

Strada dei colli sud s.n.
46049 Volta mantovana (MN)
Italia
Tel. 0039 0376838422
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Emergency Information:
Centro Antiveleni di Milano
Azienda ospedaliera Niguarda Ca' Granda
Tel. 02 66 10 10 29

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization

Description: Polyester resin with filling material and styrene

Dangerous components

CAS No.	EC No	content unit	danger symbol	R phrases
Identification according to EEC Directive Classification				
100-42-5	202-851-5	13-18 %	Xn	R10, R20, R36/38
STYRENE R10 Xn, R20 Xi, R36/38				
14807-96-6	238-877-9	30-60 %		
TALCUM (FREE OF ASBESTOS FIBRES)				
13463-67-7	236-675-5	< 10 %		
TITANIUM DIOXIDE				

Full text of R-Phrases: see under section 16.

3. HAZARDS IDENTIFICATION

Flammable.
Harmful by inhalation.
Irritating to eyes and skin.
Overexposure may lead to nausea and headache.

4. FIRST AID MEASURES

First aid measures / general indications

Remove contaminated clothes without delay.
In case of eyes contact: rinse immediately with plenty of water, for at least 15 minutes, then call for a doctor.
After ingestion: refer immediately for medical attention.
After inhalation: take the patient out of the dangerous area then refer immediately for medical attention.
After skin contact: remove mechanically, then wash with plenty of water and soap.

5. FIRE-FIGHTING MEASURES

Appropriate extinguishing media
Foam, carbon dioxide, powder (dry chemical)

6. ACCIDENTAL RELEASE MEASURES

Do not let this product enter into soil, water and drains.
Remove sources of ignition, provide sufficient ventilation.
Keep unauthorised persons at a distance.
Remove mechanically. Collect remainder with an absorbent for liquid materials. The provisions of point 8. must be enforced.
Dispose of according to the provisions of point 13.

7. HANDLING AND STORAGE

Handling
Avoid contact with skin and eyes.
Keep away from sources of ignition - no smoking.
Provide suitable ventilation, and if needed, local aspiration.
Storage
Store containers tightly closed, in a fresh, well-ventilated area
Do not expose to moisture and light.

Keep away from sources of ignition and heat. Do not smoke.
 Keep away from food, drink and animal feeding stuffs

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components for which limit values for exposure at the place of work exist (Germany):

Identification according to EEC Directive

CAS No	EC No	limit value	
STYRENE 100-42-5	202-851-5	MAK-Grenzwert MAK-Grenzwert	20 ml/m ³ 86 mg/m ³

Danger of developmental toxic effects must not be feared as long as MAK- and BAT-limit values are not exceeded.

TALCUM (FREE OF ASBESTOS FIBRES)

14807-96-6	238-877-9	MAK-Grenzwert MAK-Grenzwert	2 mg/m ³ A
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Danger of developmental toxic effects must not be feared as long as MAK- and BAT-limit values are not exceeded.

TITANIUM DIOXIDE

13463-67-7 MAK-Grenzwert	236-675-5	MAK-Grenzwert	6 mg/m ³ A
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Personal protection

Respiratory protection
 Provide good ventilation.
 Respiration filter in case of higher concentrations or insufficient ventilation.
 Recommended: filter type A, colour brown.

Hand protection

+ Use skin protective barrier cream
 + Use protective gloves.
 + Recommended:

- + Fluor rubber
- + The resistance of the protective gloves to chemicals should be ascertained with the respective supplier. Specific conditions at workplace should be taken to consideration.

Eye protection

Wear safety glasses in case risk to eye contact exists.

Hygiene measures

Wash hands before pauses and when ending work.
Do not eat, drink or smoke during work.
Remove contaminated clothes immediately.
Store working clothes separately.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form : pasty
Colour : beige
Odour : like styrene

Security-relevant data

Reference value	From	To
Boiling temperature : Method: (styrene)	ca. 145 °C	
Flash point: Method : DIN 53213	ca. 31 °C	
Ignition temperature : Method : (styrene)	ca. 490 °C	
Lower explosion limit: Method : (styrene)	1.1 % vol	
Upper explosion limit: Method : (styrene)	8 % vol	
Vapour pressure: Method : (styrene)	50°C 35 hPa	
Density at:	20°C ca. 1.8 g/cm ³	

Method :

Solubility in water: at 20°C 0.30 g/l
Method : (styrene)

Additional data

The physical data refer to the security relevant component(s) as used, approximate values are given.

10. STABILITY AND REACTIVITY

Dangerous reactions

Not to be considered if duly stored and manipulated.

Hazardous decomposition products

Not to be considered if duly stored and manipulated.

Thermal decomposition

Not to be considered if duly stored and manipulated.

Additional information (10)

Avoid excessive heating.
Pay attention to the exothermic reaction with peroxides

11. TOXICOLOGICAL INFORMATION

This product contains styrene. Styrene irritates the eyes, the skin and the respiratory system, it is harmful in case of inhalation.

Literature values on styrene:

LD 50, oral, rat: 5000 mg/kg

LC 50, inhalation, 4h, rat: 11,8 mg/kg

12. ECOLOGICAL INFORMATION

Do not let enter into water or sewer.

Literature data on styrene

Acute bacterial toxicity: EC 00 = 72 mg/l Test duration: 16 h 1)

Acute fish toxicity: LC 50 = 17 mg/l (Juhnke) 2)

LC 50 = 66 mg/l (Luedemann) 2)

Test species = Golden orfe (Leuciscus idus) Test duration: 48 h

Acute Daphnia toxicity: EC 50 = 182 mg/l Test duration: 24 h 3)

- 1) Z. f. Wasser- und Abwasserforschung 10, 87- 98 (1977)
- 2) Z. f. Wasser- und Abwasserforschung 11, 161-164 (1978)
- 3) Z. f. Wasser- und Abwasserforschung 15, 1- 6 (1982)

13. ADVICE ON DISPOSAL

Disposal / product

In accordance with local administrative provisions,
take to an appropriate incineration installation,
or dispose in hardened form at a regular waste collection point.

The waste codes quoted are only recommendations. Other waste
codes may also be possible with regard to different regional
regulations.

14. TRANSPORT INFORMATION

Land transport / lorry / international / comments

UN-No.: 1866
Resin solution
ADR/RID-GGVS/E: 3/III

Valid for polyesterputty of 5,0 L or more per each innerpackaging
without hardener

According to the note under 2.2.3.1.5 ADR, the viscosity
regulation is also valid for polyester fillers without hardener,
i.e. the product is not subject to the ADR regulations.

Inland waterway transport / comments

ADN/ADNR non communicated

Sea transport / comments

UN-No.: 1866
Resin solution
IMDG/GGVSee: 3/III
EMS: F-E, S-E
Marine pollutant:

Air transport / comments

UN-No.: 1866

Resin solution
ICAO/IATA-DGR: 3/III

Inflammable, flash point +31°C
Avoid thermal influence
Keep away from food and drink.

15. REGULATORY INFORMATION

Labelling
Contains:
STYRENE

Symbol and indication of danger

Xn Harmful

R phrases

R 10	Flammable
R 20	Harmful by inhalation
R 36/38	Irritating to eyes and skin

S phrases

S 02	Keep out of reach of children
S 23	Do not breathe vapour
S 51	Use only in well ventilated areas.
S 38	In case of insufficient ventilation, wear suitable, respiratory equipment
S 46	If swallowed, seek medical advice immediately and show this container or label.

National regulations (D)

The legal regulations for limited employment, e.g. the law for the protection of youth work and the decree for the legal protection of motherhood, have to be observed.

Class of danger to water (WGK):

2 (own assessment, not checked)

TA-Luft (Styrene): Class II

Consult the technical leaflets by BG-Chemie (Employment Accident Insurance Fund for the Chemical Industry)

M 054 "Styrol und styrolhaltige Zubereitungen"

M 023 "Polyester- und Epoxid-Harze".

16. OTHER INFORMATION

Relevant R phrases

R 10	Flammable
R 20	Harmful by inhalation
R 36/38	Irritating to eyes and skin

* + Data changed compared with the previous version.

Sections where no data are entered indicate that no data are known, or no experience is available. This does not justify the assumption that no danger can arise from the relevant point under consideration.

The information given is based on the current state of our knowledge and experience. The safety data sheet describes products with regard to safety requirements. The data do not represent a guarantee of properties.