

# SAFETY DATA SHEET

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

### 1.1. Product identifier

**Trade name**

CF Glas Plus Putty

**Product no.**

2-144-XXXX

**REACH registration number**

Not applicable

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

**Relevant identified uses of the substance or mixture**

Bodywork protector treatment. Only for professional use.  
Coatings and Paints, Fillers, Putties, Thinners (PC9a)

**Uses advised against**

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The full text of any mentioned and identified use categories are given in section 16

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

**Company and address**

August Handel GmbH  
Heinrich-Hertz-Str. 3b  
DE-14532 Kleinmachnow b. Berlin  
Germany  
Phone: +49 33203 50 300

**Contact person**

Matthias Scherzer

**E-mail**

info@augusthandel.com

**SDS date**

2020-11-04

**SDS Version**

1.0

### 1.4. Emergency telephone number

Contact The National Poisons Information Service (dial 111, 24 h service). See section 4 "First aid measures".

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Flam. Liq. 3; H226  
Acute Tox. 2; H300  
Asp. Tox. 1; H304  
Skin Irrit. 2; H315  
Eye Irrit. 2; H319  
Acute Tox. 4; H332  
STOT SE 3; H335  
Repr. 2; H361d  
STOT RE 1; H372  
Aquatic Chronic 3; H412  
See full text of H-phrases in section 2.2.

### 2.2. Label elements

**Hazard pictogram(s)**

**Signal word**

Danger

**Hazard statement(s)**

Flammable liquid and vapour. (H226)  
 Fatal if swallowed. (H300)  
 May be fatal if swallowed and enters airways. (H304)  
 Causes skin irritation. (H315)  
 Causes serious eye irritation. (H319)  
 Harmful if inhaled. (H332)  
 May cause respiratory irritation. (H335)  
 Suspected of damaging the unborn child. (H361d)  
 Causes damage to organs through prolonged or repeated exposure. (H372)  
 Harmful to aquatic life with long lasting effects. (H412)

**Precautionary statements**

**General** If medical advice is needed, have product container or label at hand. (P101).  
 Keep out of reach of children. (P102).  
**Prevention** Do not eat, drink or smoke when using this product. (P270).  
**Response** IF SWALLOWED: Immediately call a POISON CENTER/doctor. (P301+P310).  
**Storage** Store locked up. (P405).  
**Disposal** Dispose of contents/container to an approved waste disposal plant. (P501).

**Identity of the substances primarily responsible for the major health hazards**

1,1'-(p-tolylimino)dipropan-2-ol; styrene

**Additional labelling**

Not applicable

**Unique formula identifier (UFI)**

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**2.3. Other hazards**

This product contains teratogenic substances, which may cause long-term adverse effects to the unborn foetus.

This product contains substances that can cause chemical pneumonia if inhaled. The symptoms of chemical pneumonia may appear after several hours.

This product contains an organic solvent. Repeated or prolonged exposure to organic solvents may result in adverse effects to the nervous system and internal organs such as liver and kidneys.

**Additional warnings**

Tactile warning. If this product is sold in retail, it must be delivered with child-resistant fastening.

**VOC (volatile organic compound)**

VOC-Max: 4 g/l, MAXIMUM VOC CONTENT (B/b): 250 g/l.

**SECTION 3: Composition/information on ingredients****3.1/3.2. Substances/Mixtures**

NAME:	styrene
IDENTIFICATION NOS.:	CAS-no: 100-42-5 EC-no: 202-851-5 REACH-no: 01-2119457861-32 Index-no: 601-026-00-0
CONTENT:	10-25%
CLP CLASSIFICATION:	Flam. Liq. 3, Acute Tox. 4, STOT RE 1, STOT SE 3, Skin Irrit. 2, Eye Irrit. 2, Asp. Tox. 1, Repr. 2, Aquatic Chronic 3 H226, H304, H315, H319, H332, H335, H361d, H372, H412
NOTE:	O
NAME:	1,1'-(p-tolylimino)dipropan-2-ol
IDENTIFICATION NOS.:	CAS-no: 38668-48-3 EC-no: 254-075-1
CONTENT:	1%
CLP CLASSIFICATION:	Acute Tox. 2, Eye Irrit. 2, Aquatic Chronic 3 H300, H319, H412

(\*) See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

O = Organic solvent

### Other information

ATEmix(inhale, vapour) = > 10 - 13.2

ATEmix(oral) = > 5 - 6.012

Eye Cat. 2 Sum = Sum(Ci/S(G)CLi) = 16 - 24

Skin Cat. 2 Sum = Sum(Ci/S(G)CLi) = 8 - 12

N chronic (CAT 3) Sum = Sum(Ci/(M(chronic)<sup>i</sup>\*25)\*0.1\*10<sup>^</sup>CATi) = 6.4 - 9.6

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. The doctor can contact The National Poisons Information Service: Dial 0344 892 0111 (24 h service). Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

#### Inhalation

Bring the injured person into fresh air. Make sure the injured person is continuously monitored. Prevent shock by keeping the injured person warm and calm. If breathing ceases, give mouth-to-mouth resuscitation. If unconscious, roll the injured person into recovery position. Call an ambulance.

#### Skin contact

Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with soap and water. Skin cleanser can be used. DO NOT use solvents or thinners.

#### Eye contact

Remove contact lenses. Flush eyes with plenty of water or salt water (20-30°C) for at least 15 minutes and continue until irritation stops. Make sure you flush under the upper and lower eyelids. Seek medical assistance immediately and continue flushing.

#### Ingestion

Do not induce vomiting! If vomiting occurs, keep head facing down to prevent vomit entering the lungs. Call a doctor or ambulance. Symptoms of chemical pneumonia can appear after several hours. People who have swallowed the product should be kept under medical attention for a minimum of 48 hours.

#### Burns

Rinse with water until the pain stops then continue to rinse for a further 30 minutes.

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

This product contains substances that can cause chemical pneumonia if inhaled. The symptoms of chemical pneumonia may appear after several hours.

Neurotoxic effects: This product contains organic solvents, which may cause adverse effects to the nervous system. Symptoms of neurotoxicity include: loss of appetite, headache, dizziness, ringing in ears, tingling sensations of skin, sensitivity to the cold, cramps, difficulty in concentrating, tiredness, etc. Repeated exposure to solvents can result in the breaking down of the skin's natural fat layer and may result in an increased absorption potential of other hazardous substances at the area of exposure.

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

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

IF exposed or concerned: Get immediate medical advice/attention.

#### Information to medics

Bring this safety data sheet.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Recommended: alcohol-resistant foam, carbonic acid, powder, water mist. Waterjets should not be used, since they can spread the fire.

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

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous catabolic substances are produced. These are: Nitrogen oxides. Carbon oxides. Fire will result in dense black smoke. Exposure to combustion products may harm your health. Fire fighters should wear appropriate protection equipment. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

### 5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact The National Poisons Information Service (dial 111, 24 h service) in order to obtain further advice.

## SECTION 6: Accidental release measures

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

Avoid inhalation of vapours from spilled material. Avoid direct contact with spilled substances. Storages not yet ignited must be cooled by water mist. Remove flammable materials if conditions allow it. Ensure sufficient ventilation.

### 6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc. In the event of leakage to the surroundings, contact local environmental authorities. It is recommended to install waste collection trays to prevent emissions to the waste water system and surrounding environment.

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

Use sand, sawdust, earth, vermiculite, diatomaceous earth to contain and collect non-combustible absorbent materials and place in container for disposal, according to local regulations. To the extent possible cleaning is performed with normal cleaning agents. Avoid use of solvents.

### 6.4. Reference to other sections

See section on "Disposal considerations" in regard of handling of waste. See section on 'Exposure controls/personal protection' for protective measures.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Avoid static electricity. Protect electrical equipment in accordance with current standards. To divert static electricity during transmission, containers must be grounded and connected by wire with the receiving containers. Do not use spark-forming tools.

Smoking, storage of tobacco, consumption and storage of food or liquids are not allowed in the workrooms. It is recommended to install waste collection trays to prevent emissions to the waste water system and surrounding environment. See section on 'Exposure controls/personal protection' for information on personal protection. Avoid direct contact with the product.

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

Store locked up. The room and chemical closet shall be provided with warning sign for toxic substances. Always store in containers of the same material as the original container. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Must be stored in a cool and well-ventilated area, away from possible sources of ignition.

#### Storage temperature

Room temperature 18 to 23°C

### 7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### OEL

styrene

Long-term exposure limit (8-hour TWA reference period): 100 ppm | 430 mg/m<sup>3</sup>

Short-term exposure limit (15-minute reference period): 250 ppm | 1080 mg/m<sup>3</sup>

#### DNEL / PNEC

DNEL (styrene): 100 mg/m<sup>3</sup>

Exposure: Inhalation

Duration of Exposure: Short term – Systemic effects - Workers

Remarks: neurotoxicity

DNEL (styrene): 1 mg/m<sup>3</sup>

Exposure: Inhalation

Duration of Exposure: Long term – Systemic effects - General population

Remarks: repeated dose toxicity

DNEL (styrene): 10 mg/m<sup>3</sup>

Exposure: Inhalation

Duration of Exposure: Short term – Systemic effects - General population

Remarks: repeated dose toxicity

DNEL (styrene): 100 mg/m<sup>3</sup>  
 Exposure: Inhalation  
 Duration of Exposure: Long term – Local effects - Workers  
 Remarks: irritation (respiratory tract)

DNEL (styrene): 100 mg/m<sup>3</sup>  
 Exposure: Inhalation  
 Duration of Exposure: Short term – Local effects - Workers  
 Remarks: irritation (respiratory tract)

DNEL (styrene): 1 mg/m<sup>3</sup>  
 Exposure: Inhalation  
 Duration of Exposure: Long term – Local effects - General population  
 Remarks: repeated dose toxicity

DNEL (styrene): 10 mg/m<sup>3</sup>  
 Exposure: Inhalation  
 Duration of Exposure: Short term – Local effects - General population  
 Remarks: repeated dose toxicity

DNEL (styrene): 406 mg/kg bw/day  
 Exposure: Dermal  
 Duration of Exposure: Long term – Systemic effects - Workers  
 Remarks: repeated dose toxicity

DNEL (styrene): 343 mg/kg bw/day  
 Exposure: Dermal  
 Duration of Exposure: Long term – Systemic effects - General population  
 Remarks: repeated dose toxicity

DNEL (styrene): 7.7 µg/kg bw/day  
 Exposure: Oral  
 Duration of Exposure: Long term – Systemic effects - General population  
 Remarks: repeated dose toxicity

DNEL (styrene): 85 mg/m<sup>3</sup>  
 Exposure: Inhalation  
 Duration of Exposure: Long term – Systemic effects - Workers  
 Remarks: repeated dose toxicity

PNEC (styrene): 28 - 40 µg/L  
 Exposure: Freshwater

PNEC (styrene): 40 µg/L  
 Exposure: Intermittent release

PNEC (styrene): 14 - 40 µg/L  
 Exposure: Marine water

PNEC (styrene): 5 mg/L  
 Exposure: Sewage Treatment Plant

PNEC (styrene): 418 - 614 µg/kg  
 Exposure: Freshwater sediment

PNEC (styrene): 307 - 418 µg/kg  
 Exposure: Marine water sediment

PNEC (styrene): 146 - 200 µg/kg  
 Exposure: Soil

## 8.2. Exposure controls

Compliance with the accepted occupational exposure limits values should be controlled on a regular basis.

### General recommendations

Observe general occupational hygiene standards.

### Exposure scenarios

In the event exposure scenarios are appended to the safety data sheet, the operational conditions and risk management measures in these shall be complied with.

### Exposure limits

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

### Appropriate technical measures

Airborne gas and dust concentrations must be kept at a minimum and below current limit values (see

above). Installation of an exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure emergency eyewash and -showers are clearly marked.

#### Hygiene measures

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Always wash hands, forearms and face.

#### Measures to avoid environmental exposure

Keep containment materials near the workplace. If possible, collect spillage during work.

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



#### Generally

Use only CE marked protective equipment.

#### Respiratory Equipment

Recommended: Combination filter A2P2. Class 2. Brown/White

#### Skin protection

Wear appropriate protection clothing, e.g. coveralls in polypropylene approved type 6 and Category III.

#### Hand protection

Nitrile rubber

Material thickness: >0,7 mm.

Breakthrough time: > 480 minutes (Class 6)

#### Eye protection

Wear face shield alternatively safety glasses with side shields.

## SECTION 9: Physical and chemical properties

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

Form	Liquid
Colour	Green
Odour	Characteristic
Odour threshold (ppm)	No data available.
pH	No data available.
Viscosity (40°C)	60000-80000 mPas
Density (g/cm <sup>3</sup> )	1.578

#### Phase changes

Melting point (°C)	No data available.
Boiling point (°C)	145
Vapour pressure (20°C)	6 hPa
Decomposition temperature (°C)	No data available.
Evaporation rate (n-butylacetate = 100)	No data available.

#### Data on fire and explosion hazards

Flash point (°C)	31
Ignition (°C)	No data available.
Auto flammability (°C)	No data available.
Explosion limits (% v/v)	1.2 - 8.9
Explosive properties	No data available.

#### Solubility

Solubility in water	Insoluble
n-octanol/water coefficient	No data available.

### 9.2. Other information

Solubility in fat (g/L)	No data available.
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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No data available

### 10.2. Chemical stability

The product is stable under the conditions, noted in the section "Handling and storage".

### 10.3. Possibility of hazardous reactions

Nothing special

### 10.4. Conditions to avoid

Avoid static electricity. Do not expose to any forms of heat (e.g. solar radiation). May lead to excess pressure.

### 10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

### 10.6. Hazardous decomposition products

The product is not degraded when used as specified in section 1.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity

Substance: styrene

Species: Rat

Test: LD50

Route of exposure: Oral

Result: 5000 mg/kg

#### Skin corrosion/irritation

Causes skin irritation.

Data on substance: styrene

Test: no guideline followed

Result: Irritation and redness may occur

#### Serious eye damage/irritation

Causes serious eye irritation.

Data on substance: styrene

Test: no guideline followed

Result: Irritation, redness, pain and asthenopia.

#### Respiratory or skin sensitisation

Data on substance: styrene

#### Germ cell mutagenicity

No data available.

#### Carcinogenicity

No data available.

#### Reproductive toxicity

Suspected of damaging fertility or the unborn child.

#### STOT-single exposure

May cause respiratory irritation.

#### STOT-repeated exposure

Causes damage to organs through prolonged or repeated exposure.

#### Aspiration hazard

May be fatal if swallowed and enters airways.

#### Long term effects

Reproductive toxicity: This product contains teratogenic substances, which may produce anomalies and/or developmental defects to the human offspring. Adverse effects include: death, growth retardation, congenital disorders, delayed mental development, and functional disorders.

Neurotoxic effects: This product contains organic solvents, which may cause adverse effects to the nervous system. Symptoms of neurotoxicity include: loss of appetite, headache, dizziness, ringing in ears, tingling sensations of skin, sensitivity to the cold, cramps, difficulty in concentrating, tiredness, etc. Repeated exposure to solvents can result in the breaking down of the skin's natural fat layer and may result in an increased absorption potential of other hazardous substances at the area of exposure.

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

## SECTION 12: Ecological information

### 12.1. Toxicity

Substance: styrene

Species: Fish  
 Test: LC50  
 Duration: 96 h  
 Result: 4,02 mg/L

Substance: styrene  
 Species: Aquatic invertebrates  
 Test: EC50  
 Duration: 48 h  
 Result: 4,7 mg/L

Substance: styrene  
 Species: Aquatic invertebrates  
 Test: NOEC  
 Duration: 21 d  
 Result: 1,01 mg/L

Substance: styrene  
 Species: Algae  
 Test: EC50  
 Duration: 72 h  
 Result: 4,9 mg/L

**12.2. Persistence and degradability**

Substance	Biodegradability	Test	Result
No data available.			

**12.3. Bioaccumulative potential**

Substance	Potential bioaccumulation	LogPow	BCF
No data available.			

**12.4. Mobility in soil**

No data available

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

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

**12.6. Other adverse effects**

This product contains substances, which may cause adverse long-term effects to the aquatic environment.

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

Product is covered by the regulations on hazardous waste.

**Waste**

<p>EWC code 08 01 11*</p>	<p>waste paint and varnish containing organic solvents or other dangerous substances</p>
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**Specific labelling**

Not applicable

**Contaminated packing**

Contaminated packaging must be disposed of similarly to the product.

**SECTION 14: Transport information**

**14.1 – 14.4**

Not dangerous goods according to ADR, IATA and IMDG.

**ADR/RID**

<p>14.1. UN number</p> <p>14.2. UN proper shipping name</p> <p>14.3. Transport hazard class(es)</p> <p>14.4. Packing group</p> <p>Notes</p> <p>Tunnel restriction code</p>	<p>3269</p> <p>POLYESTER RESIN KIT</p> <p>3</p> <p>III</p> <p>-</p> <p>E</p>
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**IMDG**

<p>UN-no.</p> <p>Proper Shipping Name</p> <p>Class</p> <p>PG*</p>	<p>3269</p> <p>POLYESTER RESIN KIT</p> <p>3</p> <p>III</p>
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<b>EmS</b>	F-E, S-D
<b>MP**</b>	No
<b>Hazardous constituent</b>	Flammable liquids
<b>IATA/ICAO</b>	
<b>UN-no.</b>	3269
<b>Proper Shipping Name</b>	POLYESTER RESIN KIT
<b>Class</b>	3
<b>PG*</b>	III

**14.5. Environmental hazards**

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**14.6. Special precautions for user**

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

No data available

(\*) Packing group

(\*\*) Marine pollutant

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****Restrictions for application**

People under the age of 18 shall not be exposed to this product cf. Council Directive 94/33/EC of 22 June 1994 on the protection of young people at work.

Industrial use only.

Pregnant women and women breastfeeding must not be exposed to this product. The risk, and possible technical precautions or design of the workplace needed to eliminate exposure, must be considered.

**Demands for specific education**

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**Additional information**

Not applicable

**Seveso**

Seveso III Part 1: H2, P5c

**Biocidal reg. no.**

Not applicable

**Sources**

Council Directive 92/85/EEC on the introduction of measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding.

Council Directive 94/33/EC of 22 June 1994 on the protection of young people at work.

Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC.

The Control of Substances Hazardous to Health Regulations 2002. SI 2002/2677. The Stationery Office, 2002.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (CLP).

Regulation (EC) 1907/2006 (REACH).

The Control of Major Accident Hazards (COMAH) Regulations 2015.

**15.2. Chemical safety assessment**

No

**SECTION 16: Other information****Full text of H-phrases as mentioned in section 3**

H226 - Flammable liquid and vapour.

H300 - Fatal if swallowed.

H304 - May be fatal if swallowed and enters airways.

H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

H332 - Harmful if inhaled.

H335 - May cause respiratory irritation.

H372 - Causes damage to organs through prolonged or repeated exposure.

H412 - Harmful to aquatic life with long lasting effects.

H361d - Suspected of damaging the unborn child.

**The full text of identified uses as mentioned in section 1**

PC9a = Coatings and Paints, Fillers, Putties, Thinners

**Additional label elements**

Not applicable

**Other**

In accordance with Regulation (EC) No. 1272/2008 (CLP) the evaluation of the classification of the mixture is based on:

The classification of the mixture in regard of physical hazards has been based on experimental data.

The classification of the mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP)

The classification of the mixture in regard of environmental hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP)

The classification of the mixture in regard of skin corrosion and serious eye damage is based on the pH-criterion given by Regulation (EC) No. 1272/2008 (CLP) It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue triangle.

**The safety data sheet is validated by**

SG

**Date of last essential change**

**(First cipher in SDS version)**

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**Date of last minor change**

**(Last cipher in SDS version)**

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