

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

Printing date 25.10.2018

Version number 10

Revision: 25.10.2018

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

- **1.1 Product identifier**
- **Trade name:** 042 Euroblock Turbo
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the mixture** Special priming
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
FORBO Eurocol Deutschland GmbH
August-Roebling-Str. 2
D-99091 Erfurt
Tel.: +49 (0)361 73041-0
Fax: +49 (0)361 73041-92
Website: <http://www.forbo-bonding.de>
- **Further information obtainable from:**
Laboratory
Elisabeth Reinhardt
Elisabeth.Reinhardt@forbo.com
- **1.4 Emergency telephone number:** GGIZ +49-361-730730 (for Germany)

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
Acute Tox. 4 H332 Harmful if inhaled.
Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2 H319 Causes serious eye irritation.
Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin Sens. 1 H317 May cause an allergic skin reaction.
Carc. 2 H351 Suspected of causing cancer.
STOT SE 3 H335 May cause respiratory irritation.
STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS07 GHS08

- **Signal word** Danger
- **Hazard-determining components of labelling:**
4,4'-methylenediphenyl diisocyanate
Aromatic polyisocyanate prepolymer (Isocyanic acid, polymethylenepolyphenylene ester, polymer with 1,2-ethanediamine, methyloxirane and 1,2-propanediol)
o-(p-isocyanatobenzyl)phenyl isocyanate
diphenylmethanediisocyanate, isomers and homologues

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2,2'-methylenediphenyl diisocyanate

· Hazard statements

H332 Harmful if inhaled.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction.

H351 Suspected of causing cancer.

H335 May cause respiratory irritation.

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

· Precautionary statements

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

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

P284 In case of inadequate ventilation wear respiratory protection.

P302+P352 IF ON SKIN: Wash with plenty of water.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

· Additional information:

Restricted to professional users.

EUH204 Contains isocyanates. May produce an allergic reaction.

· 2.3 Other hazards**· Results of PBT and vPvB assessment****· PBT:** Not applicable.**· vPvB:** Not applicable.**SECTION 3: Composition/information on ingredients****· 3.2 Chemical characterisation: Mixtures****· Description: -****· Dangerous components:**

CAS: 101-68-8 EINECS: 202-966-0 Index number: 615-005-00-9	4,4'-methylenediphenyl diisocyanate ⚠ Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; ⚠ Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	30-<40%
CAS: 67815-87-6	Aromatic polyisocyanate prepolymer (Isocyanic acid, polymethylenepolyphenylene ester, polymer with 1,2-ethanediamine, methyloxirane and 1,2-propanediol) ⚠ Resp. Sens. 1, H334; STOT RE 2, H373; ⚠ Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	25-<30%
CAS: 5873-54-1 EINECS: 227-534-9 Index number: 615-005-00-9	o-(p-isocyanatobenzyl)phenyl isocyanate ⚠ Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; ⚠ Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	20-<25%
CAS: 9016-87-9 EINECS: 202-966-0 Index number: 615-005-00-9	diphenylmethanediisocyanate, isomeres and homologues ⚠ Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; ⚠ Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	1-3%

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Trade name: 042 Euroblock Turbo

CAS: 2536-05-2

EINECS: 219-799-4

Index number: 615-005-00-9

2,2'-methylenediphenyl diisocyanate

⚠ Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373;

⚠ Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335

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1-3%

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

· 4.1 Description of first aid measures

· **General information:**

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· **After inhalation:**

Supply fresh air and to be sure call for a doctor.

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

· **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. Then consult a doctor.

· **After swallowing:** A person vomiting while laying on their back should be turned onto their side.

· 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.

SECTION 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

Formation of toxic gases is possible during heating or in case of fire.

In case of fire, the following can be released:

Nitrogen oxides (NO_x)

Carbon monoxide and carbon dioxide

Under certain fire conditions, traces of other toxic gases cannot be excluded, e.g.:

Hydrogen cyanide (HCN)

· 5.3 Advice for firefighters

· **Protective equipment:** Wear self-contained respiratory protective device.

SECTION 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 drains/ surface or ground water.

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· **6.3 Methods and material for containment and cleaning up:**

Do not seal receptacles gas-tight.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

· **6.4 Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

· **7.1 Precautions for safe handling**

See Section 8 for information on personal protection equipment.

Do not breathe gas/fumes/vapour/spray

· **Information about fire - and explosion protection:** *No special measures required.*

· **7.2 Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:** *Store only in the original receptacle.*

· **Information about storage in one common storage facility:** *Store away from oxidising agents.*

· **Further information about storage conditions:**

Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.

Keep container tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

Protect from humidity and water.

Store under lock and key and with access restricted to technical experts or their assistants only.

· **Recommended storage temperature:** *+5 °C - +30 °C*

· **Storage class:** *10 Combustible liquids, unless storage class 3 A or 3 B (VCI)*

· **7.3 Specific end use(s)** *No further relevant information available.*

SECTION 8: Exposure controls/personal protection

· **Additional information about design of technical facilities:** *No further data; see item 7.*

· **8.1 Control parameters**

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

101-68-8 4,4'-methylenediphenyl diisocyanate

WEL Short-term value: 0.07 mg/m³

Long-term value: 0.02 mg/m³

Sen; as -NCO

5873-54-1 o-(p-isocyanatobenzyl)phenyl isocyanate

WEL Short-term value: 0.07 mg/m³

Long-term value: 0.02 mg/m³

Sen; as -NCO

2536-05-2 2,2'-methylenediphenyl diisocyanate

WEL Short-term value: 0.07 mg/m³

Long-term value: 0.02 mg/m³

Sen; as -NCO

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· DNELs		
101-68-8 4,4'-methylenediphenyl diisocyanate		
Inhalative	Arbeitnehmer DNEL, akut	0.1 mg/m ³ (lokal)
	Arbeitnehmer DNEL, langzeit	0.05 mg/m ³ (lokal)
5873-54-1 o-(p-isocyanatobenzyl)phenyl isocyanate		
Dermal	Arbeitnehmer DNEL, akut	28.7 mg/cm ² (lokal) 50 mg/kg KG/d (systemisch)
Inhalative	Arbeitnehmer DNEL, akut	0.1 mg/m ³ (lokal)
		0.1 mg/m ³ (systemisch)
	Arbeitnehmer DNEL, langzeit	0.05 mg/m ³ (lokal)
		0.05 mg/m ³ (systemisch)

· PNECs		
101-68-8 4,4'-methylenediphenyl diisocyanate		
Boden	1 mg/kg	
Meerwasser	0.1 mg/L	
Süßwasser	1 mg/L	
5873-54-1 o-(p-isocyanatobenzyl)phenyl isocyanate		
Boden	1 mg/kg	
Meerwasser	0.1 mg/L	
Süßwasser	1 mg/L	
2536-05-2 2,2'-methylenediphenyl diisocyanate		
Boden	1 mg/kg	
Meerwasser	0.1 mg/L	
Süßwasser	1 mg/L	

· **Additional information:** The lists valid during the making were used as basis.

· **8.2 Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

Do not eat, drink, smoke or sniff while working.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

· **Respiratory protection:**



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.

· **Recommended filter device for short term use: Filter A**

· **Protection of hands:**



Protective gloves

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· **Material of gloves**

Butyl rubber, BR

Recommended thickness of the material: ≥ 0.4 mm

Nitrile rubber, NBR

Recommended thickness of the material: ≥ 0.4 mm· **Penetration time of glove material**

with permanent contact: Viton gloves (0.4 mm)

Penetration time > 30 min.· **Eye protection:**

Tightly sealed goggles

· **Body protection:** Protective work clothing

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**· **General Information**· **Appearance:****Form:**

Fluid

Colour:

transparent

· **Odour:**

Weak, characteristic

· **pH-value:**

Not applicable.

· **Change in condition****Melting point/freezing point:**

Undetermined.

Initial boiling point and boiling range: Undetermined.· **Flash point:**

210 °C (berechnet)

· **Flammability (solid, gas):**

Not applicable.

· **Ignition temperature:**

Undetermined.

· **Decomposition temperature:**

Undetermined.

· **Auto-ignition temperature:**

Product is not selfigniting.

· **Explosive properties:**

Product does not present an explosion hazard.

· **Vapour pressure:**

Not determined.

· **Density at 23 °C:**1.15 g/cm³ (ISO 2811-2)· **Evaporation rate**

Not determined.

· **Solubility in / Miscibility with water:**

Not miscible or difficult to mix.

· **Partition coefficient: n-octanol/water:**

Undetermined.

· **Viscosity:****Dynamic at 25 °C:**

160 - 240 mPas (ISO 2884-1)

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- **Solvent content:**
 - Organic solvents:** 0.0 %
 - VOC (CE)** Not applicable.
 - 0.00 %
- **9.2 Other information** No further relevant information available.

SECTION 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**
 Reacts with alcohols, amines, aqueous acids and alkalis.
 Carbon dioxide
 Danger of bursting.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** Decomposes with water, acids and alkalis.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity**
 Harmful if inhaled.

· **LD/LC50 values relevant for classification:**

67815-87-6 Aromatic polyisocyanate prepolymer (Isocyanic acid, polymethylenepolyphenylene ester, polymer with 1,2-ethanediamine, methyloxirane and 1,2-propanediol)

Dermal	LD50	9400 mg/kg (OECD 402) (rabbit)
Oral	LD50	2000 mg/kg (rat) (OECD 423)

9016-87-9 diphenylmethanediisocyanate, isomeres and homologues

Oral	LD50	>10000 mg/kg (rat) (OECD 401)
Dermal	LD50	>9400 mg/kg (rabbit) (OECD 402)

101-68-8 4,4'-methylenediphenyl diisocyanate

Oral	LD50	>2,000 mg/kg (rat) (84/449/EWG)
Dermal	LD50	>9,400 mg/kg (rabbit) (OECD 402)
Inhalative	LC50/4h	368 mg/l (rat) (OECD 403)

5873-54-1 o-(p-isocyanatobenzyl)phenyl isocyanate

Oral	LD50	>2000 mg/kg (rat)
Dermal	LD50	9400 mg/kg (OECD 402) (rabbit)

2536-05-2 2,2'-methylenediphenyl diisocyanate

Oral	LD50	> 2000 mg/kg (rat)
Dermal	LD50	>9400 mg/kg OECD 402 (rabbit)

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· **ATE (Acute toxicity estimates) - REGULATION (EC) No 1272/2008****9016-87-9 diphenylmethanediisocyanate, isomers and homologues**

Inhalative ATE (inhalativ 4h) 1.5 mg/l (rat)

· **Primary irritant effect:**· **Skin corrosion/irritation****9016-87-9 diphenylmethanediisocyanate, isomers and homologues**

Irritation of skin Dermal Irritation irritating (rabbit) (OECD 404)

Causes skin irritation.

· **Serious eye damage/irritation****9016-87-9 diphenylmethanediisocyanate, isomers and homologues**

Irritation of eyes Eye Irritation irritating (rabbit) (OECD 405)

Causes serious eye irritation.

· **Respiratory or skin sensitisation**

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

· **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**· **Germ cell mutagenicity** Based on available data, the classification criteria are not met.· **Carcinogenicity**

Suspected of causing cancer.

· **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.

· **Aspiration hazard** Based on available data, the classification criteria are not met.**SECTION 12: Ecological information**· **12.1 Toxicity**· **Aquatic toxicity:****67815-87-6 Aromatic polyisocyanate prepolymer (Isocyanic acid, polymethylenepolyphenylene ester, polymer with 1,2-ethanediamine, methyloxirane and 1,2-propanediol)**

EC50/48h >1000 mg/l (activated sludge)

EC50/96h >1000 mg/l (Scenedesmus suspicatus)

9016-87-9 diphenylmethanediisocyanate, isomers and homologues

EC50/24h >1000 mg/l (Daphnia magna) (OECD 202)

LC50/96h >1000 mg/l (zebrafish (Brachydanio rerio)) (OECD 203)

101-68-8 4,4'-methylenediphenyl diisocyanate

LC50/96h >1,000 mg/l (zebrafish (Brachydanio rerio)) (OECD 203)

EC50/48h >1,000 mg/l (Daphnia magna) (OECD 202)

EC50/72h >1,640 mg/l (Scenedesmus suspicatus) (OECD 201)

· **12.2 Persistence and degradability** Not easily biodegradable

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· Degree of elimination:

67815-87-6 Aromatic polyisocyanate prepolymer (Isocyanic acid, polymethylenepolyphenylene ester, polymer with 1,2-ethanediamine, methyloxirane and 1,2-propanediol)

Biodegradability	0 % / 28d
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9016-87-9 diphenylmethanediisocyanate, isomeres and homologues

Modified MITI Test	0 % / 28d (OECD 302C)
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· **12.3 Bioaccumulative potential** No further relevant information available.

· **12.4 Mobility in soil** No further relevant information available.

· **Ecotoxical effects:**

· **Behaviour in sewage processing plants:**

Type of test	Effective concentration	Method	Assessment
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9016-87-9 diphenylmethanediisocyanate, isomeres and homologues

EC50/3h	>100 mg/l (activated sludge) (OECD 209)
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· **Additional ecological information:**

· **General notes:**

Do not allow product to reach ground water, water course or sewage system.

Water hazard class 1 (Self-assessment): slightly hazardous for water.

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

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**

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

· **Recommendation** Do not allow product to reach sewage system.

· **European waste catalogue**

08 05 01*	waste isocyanates
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· **Uncleaned packaging:**

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

SECTION 14: Transport information

· **14.1 UN-Number**

· ADR, ADN, IMDG, IATA	Void
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· **14.2 UN proper shipping name**

· ADR, ADN, IMDG, IATA	Void
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· **14.3 Transport hazard class(es)**

· ADR, ADN, IMDG, IATA	Void
· Class	

· **14.4 Packing group**

· ADR, IMDG, IATA	Void
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· 14.5 Environmental hazards:	
· Marine pollutant:	No
· 14.6 Special precautions for user	Not applicable.
· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
· Transport/Additional information:	Not dangerous according to the above specifications.
· UN "Model Regulation":	Void

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3, 56a, 56b, 56c
- **National regulations:**
 Danger to drinking water if even extremely small quantities leak into the ground.
 Water hazard class 1 (Self-assessment): slightly hazardous for water.
- **Information about limitation of use:**
 Employment restrictions concerning juveniles must be observed. (94/33/EC)
 Employment restrictions concerning pregnant and lactating women must be observed. (92/85/EC)
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

- **Relevant phrases**
 Irritating to 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.
 H351 Suspected of causing cancer.
 H373 May cause damage to organs through prolonged or repeated exposure.
- **Department issuing SDS:** Laboratory
- **Contact:**
 Dr. Amina Chnirheb
 Amina.Chnirheb@forbo.com
- **Abbreviations and acronyms:**
 RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
 ICAO: International Civil Aviation Organisation
 ADR: Accord européen sur le transport 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)

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VOC: Volatile Organic Compounds (USA, EU)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
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
Carc. 2: Carcinogenicity – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
· *** Data compared to the previous version altered.**

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