MAGNESIUM METAL RIBBON EXTRA PURE

□□□□□□□□

□□ (EU) 2020/878□ □□ □□□ REACH □□ (EC) 1907/2006□ □□
SDS Reference Number: 04459
□□ □□□□: 4/9/2014 □□ □□□□: 1/31/2025 □□ □□: 4/9/2015 □□: 1.0

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1.1. □□□□

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□□□	:	MAGNESIUM METAL RIBBON EXTRA PURE
EC □□ □□	:	012-001-00-3
EC □□	:	231-104-6
CAS □□	:	7439-95-4
□□ □□	:	04459
□□ □□	:	□□
□□□	:	Mg
□□ □□	:	

Mg

1.2. □□□□ □□ □□□□ □□ □□ □□ □□

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□□□□/□□□□ □□	:	Laboratory chemicals, Manufacture of substances

1.3. □□□□□□□□ □□□ □□

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1.4. □□□□□□

□□ □□ □□	:	+ 91 22 6663 6663 (9:00am - 6:00 pm)

□□ 2: □□□·□□□

2.1. □□□·□□□ □□

Regulation (EC) No.1272/2008 [CLP]□ □□ □□

□□□□□ □□, □□ 1	H250
□□□□ □□ □ □□□, □□ 1	H260

□□(H) □□ □ EUH □□ □□: 16□ □□.

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2.2. □□□□□□□ □□□ □□□□ □□

□□ (EC) No. 1272/2008□ □□ □□ □□[CLP]

□□ □□ □□□□(CLP) :



GHS02

□□□ (CLP) : □□

□□·□□ □□ (CLP)	:	H250 - □□□ □□□□ □□□ □□□. H260 - □□ □□ □ □□□□ □□□ □□□ □□□ □□□□.
□□ □□ □□(CLP)	:	P222 - □□□ □□□□□ □□□. P223 - □□ □□□□□ □□□. P231+P232 - □□□□ □□□ □□ □□□ □□ □ □□□□□. □□□ □□□□□. P370+P378 - □□ □ □□ □□ □□ □ □□□ □□ □(□) □□□□□.

2.3. □□ □□

Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

□□ 3: □□□□□ □□ □ □□□

3.1. □□□□

□□ □□ : □□□□□□

□□	□□□□	%
MAGNESIUM METAL RIBBON	CAS □□: 7439-95-4 EC □□: 231-104-6 EC □□ □□: 012-001-00-3	100

□□ 4: □□□□□□

4.1. □□□□ □□

□□ □□ □□	:	If you feel unwell, seek medical advice.
□□□□ □	:	□□□ □□□ □□ □□□ □□□ □□□□ □□ □□□ □□□ □□□□. Give oxygen or artificial respiration if necessary. If you feel unwell, seek medical advice.
□□□ □□□□ □	:	□□□ □□ □□□ □□□□□. □□□ □□ □□□□[□□ □□ □□□ □□□□]. □□□□□ □□□ □□□ □□ □□, □□□ □□ □□□□ □□ □□□ □□□□. Wash skin with plenty of water.
□□ □□□□ □	:	□□□□ □□□□□□ □□□□□. □□ □□□□. □ □□ □□ □□□□ □□□□. □□ □□□ □□□□: □□□ □ □□/□□□ □□□□.
□□□ □	:	Rinse mouth out with water. If you feel unwell, seek medical advice. □□□□ □□□ □□□□(□□)□ □□□ □□□□.
First-aid measures for first aider	:	□□□□ □□□□ □□□ □□ □□ □□□ □□□□ □□□.

4.2. □□ □ □□□ □□ □□□ □□ □ □□

□□ □ □□/□□	:	None under normal conditions. Dust of the product, if present, may cause respiratory irritation after excessive inhalation exposure.
□□ □□ □ □□/□□	:	None under normal conditions. Dust may cause irritation in skin folds or by contact in combination with tight clothing.
□ □□ □ □□/□□	:	None under normal conditions. Dust from this product may cause eye irritation.
□□ □ □□/□□	:	None under normal conditions.

4.3. □□□□ □□ □ □□ □□ □□ □□ □□

Treat symptomatically.

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5.1. □□□ □□□

□□□ □□□	:	dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2). Dry powder. Foam.
□□□□ □□□	:	Do not use extinguishing media containing water.

물질안전보건자료
규정 (EU) 2020/878에 의해 수정된 REACH 규정 (EC) 1907/2006에 따름

5.2. 화학물질로부터 생기는 특정 유해성

화재 위험 : 공기에 노출되면 자연발화함.

폭발 위험 : No direct explosion hazard.
화재 시 위험한 분해성 물질 : Toxic fumes may be released.

5.3. 소방관의 화재진압 시 주의사항

소방 지침 : Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection.
화재 진압 중 보호 : Do not attempt to take action without suitable protective equipment. 자급식 호흡보호구. Complete protective clothing.

섹션 6: 누출사고시 대처방법

6.1. 인체를 보호하기 위해 필요한 조치사항 및 보호구

일반 조치 : 공기에 접촉시키지 마시오. 제품이 하수구 또는 상하수도로 들어갈 경우 당국에 통보. 물질손상을 방지하기 위해 누출 물을 흡수시키시오.

비응급 대응 요원

보호 장비 : Wear recommended personal protective equipment.
응급 조치 : Ventilate spillage area. Evacuate unnecessary personnel. 화염, 스파크에 노출 금지. 금연.

응급 대응 요원

보호 장비 : Do not attempt to take action without suitable protective equipment. 적절한 개인 보호구를 착용하시오. 보 다 자세한 정보는 섹션 8: "노출방지 및 개인보호구"를 참조하시오.

응급 조치 : Stop release. Evacuate unnecessary personnel.

6.2. 환경을 보호하기 위해 필요한 조치사항

환경으로 배출하지 마시오. Do not allow water (or moist air) contact with this material.

6.3. 정화 또는 제거 방법

봉쇄용 : Using a clean shovel, put the material in a dry container and cover without compressing it. 세척 방법 : Mechanically recover the product. Clean up immediately by sweeping or vacuum.
그 밖의 참고사항 : Dispose of materials or solid residues at an authorized site.

6.4. 기타 항목 참조

For further information refer to section 13.

섹션 7: 취급 및 저장방법

7.1. 안전취급요령

취급 시 발생가능한 추가 위험 : Handle empty containers with care because residual vapours are flammable. 공기에 노출되면 자연발화함 . 물에 접촉시키지 마시오.

안전취급요령 : Ensure good ventilation of the work station. No open flames. No smoking. 공기에 접촉시키지 마시오. 습 기를 방지하시오. 불활성 기체 하에서 취급하시오. 열, 고온의 표면, 스파크, 화염 및 그 밖의 점화원으로부터 멀리하
시오. 금연. 개인 보호구를 착용하시오. 물에 접촉시키지 마시오.

위생 조치 : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. 이 제품을 사용할 때에는 먹거나, 마시거나 흡연하지 마시오. Always wash hands
after handling the product.

7.2. 피해야할 조건을 포함한 안전한 저장 방법

기술적 조치 : 적절한 불활성기체 을(를) 충진하여 보관하시오.
보관 조건 : 건조한 장소에 보관하시오. 습기를 방지하시오. 밀폐된 용기에 보관하시오.
피해야 할 물질 : Heat sources. 물에 접촉시키지 마시오.

포장재 : Store always product in container of same material as original container.

7.3. □□ □□ □□

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8.1. □□ □□ □□

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8.2. □□□□

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□□□ □□□ □□:

Ensure good ventilation of the work station.

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Wear recommended personal protective equipment.

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□ □□:

Chemical goggles or safety glasses

Skin protection

□□ □□:

Wear a mask

□ □□:

Protective gloves

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Wear appropriate mask

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9.1. □□□□ □□□□□ □□□ □□ □□

□□□ □□	:	□□
□□	:	Silvery white.
□□	:	Ribbons.
□□□	:	24.31 g/mol
□□	:	Odourless.
□□ □□	:	□□□□
□□□	:	650 °C
□□□	:	□□□□
□□ □□□□ □□□ □□	:	1091 °C
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□□ □□□	:	□□□□
□□□	:	500 °C
□□□□ □□	:	≈ 473 °C

□□ □□	:	□□□□
pH	:	□□□□
pH □□	:	□□□□
□□(□□□)	:	□□□□
□□□	:	□: Insoluble in water
Partition coefficient n-octanol/water (Log Kow)	:	□□□□
□□□	:	□□□□
50°C□□□ □□□	:	□□□□
□□	:	1.74 g/cm³ at 25 °C
□□	:	□□□□
20°C□□□ □□ □□ □□	:	□□□□
Particle size	:	□□□□

9.2. □ □□ □□□□

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□□ 10: □□□ □ □□□

10.1. □□□

The product is non-reactive under normal conditions of use, storage and transport.

10.2. □□□ □□□

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10.3. □□ □□□ □□□

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10.4. □□□ □ □□

□□□ □□□□□ □□□. Open flame. Overheating. □□□□. □. Sparks. □□□ □□□ □□□ □□□□. □□, □□□, □□□□ □□ □□□□□□. Water, humidity.

10.5. □□□ □ □□

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10.6. □□□ □□□□ □□□□

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

□□ 11: □□□ □□ □□

11.1. □□ (EC) No 1272/2008□ □□□, □□□ □□□ □□ □□

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MAGNESIUM METAL RIBBON EXTRA PURE (7439-95-4)	
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11.2. □□ □□ □□

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□□ 12: □□□ □□□ □□

12.1. □□

□□□ - □□	:	The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
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□□ □□□□ □□□	:	□□□□ □□

12.2. □□□ □ □□□

MAGNESIUM METAL RIBBON EXTRA PURE (7439-95-4)	
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12.3. □□ □□□

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12.4. □□ □□□

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12.5. PBT □ vPvB □□ □□

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12.6. □□□ □□ □□

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12.7. □□ □□ □□

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□□ 13: □□□ □□□□

13.1. □□□ □□□

□□ □□(□□□)	:	Disposal must be done according to official regulations.
□□□ □□□	:	Dispose of contents/container in accordance with licensed collector’s sorting instructions.
□□ □□ □□ □□	:	Disposal must be done according to official regulations.
□□/□□ □□ □□□□	:	□□, □□, □□ □/□□ □□ □□□ □□ □□□□ □□ □□ □□□ □□ □□ □ □□□□ □□□ □□□□□. Disposal must be done according to official regulations.
□□ □□	:	Handle empty containers with care because residual vapours are flammable. Do not re-use empty containers.

□□ 14: □□□ □□□ □□

ADR / IMDG / IATA / ADN / RID□ □□

14.1. UN □□ □□ ID □□

UN-□□(ADR)	:	UN 1869
UN-□□ (IMDG)	:	UN 1869
UN-□□(IATA)	:	UN 1869
UN-□□(ADN)	:	UN 1869
UN-□□(RID)	:	UN 1869

14.2. UN □□ □□□

□□ □□□ (ADR)	:	□□□□
□□ □□□ (IMDG)	:	MAGNESIUM
□□ □□□ (IATA)	:	Magnesium
□□ □□□ (ADN)	:	□□□□
□□ □□□ (RID)	:	□□□□
□□ □□ □□ (ADR) (ADR)	:	UN 1869 □□□□, 4.1, III, (E)
□□ □□ □□ (IMDG)	:	UN 1869 MAGNESIUM, 4.1, III
□□ □□ □□ (IATA)	:	UN 1869 Magnesium, 4.1, III
□□ □□ □□ (ADN)	:	UN 1869 □□□□, 4.1, III
□□ □□ □□ (RID)	:	UN 1869 □□□□, 4.1, III

14.3. □□□□□ □□□ □□

ADR

□□□□□ □□□ □□ (ADR)	:	4.1
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	:	

IMDG

□□□□□ □□□ □□ (IMDG)	:	4.1
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	:	

IATA

□□□□□ □□□ □□ (IATA)	:	4.1
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ADN

□□□□□ □□□ □□ (ADN)	:	4.1
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RID

□□□□□ □□□ □□ (RID)	:	4.1
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14.4. □□□□

□□ □□ (ADR)	:	III
□□ □□(IMDG)	:	III
□□ □□ (IATA)	:	III

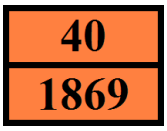
□□ □□(ADN)	:	III
□□ □□(RID)	:	III

14.5. □□ □□□

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□□□□□□	:	□□□
EmS-No. (□□)	:	F-G
EmS-No. (□□)	:	S-G
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14.6. □□□□ □□ □□ □□□□

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□□ □□(ADR)	:	F3
□□ □□(ADR)	:	59
□□□(ADR)	:	5kg
□□□(ADR)	:	E1
□□ □□(ADR)	:	P002, IBC08, LP02, R001
□□ □□ (ADR)	:	B3
□□ □□ □□ □□ □□(ADR)	:	MP11
□□□ □□ □ □□ □□□□ □□ (ADR)	:	T1
□□□ □□ □ □□ □□□□ □□ □□ (ADR)	:	TP33
□□ □□(ADR)	:	SGAV
□□ □□□ □□	:	AT
□□ □□(ADR)	:	3
□□ □□ □□ □□ - □□ □□(ADR)	:	VC1, VC2
□□ □□ □□(Kemler □□)	:	40
Orange plates (□□□□□□)	:	
□□ □□ □□ (ADR)	:	E
EAC □□	:	4W

□□ □□

□□ □□ (IMDG)	:	59, 920
□□ □□(IMDG)	:	5 kg
□□□(IMDG)	:	E1
□□ □□ (IMDG)	:	P002, LP02
□□ □□ (IMDG)	:	PP100, L3
IBC □□ □□(IMDG)	:	IBC08
IBC □□ □□ (IMDG)	:	B4
□□ □□ (IMDG)	:	T1
□□ □□ □□ (IMDG)	:	TP33
□□ □□ (IMDG)	:	A
□□ □ □□(IMDG)	:	H1
□□(IMDG)	:	SG17, SG32, SG35, SG36, SG52, SG25, SG26
□□□ □□□□ (IMDG)	:	Silvery white metal. Burns with an intense white light and heat. In contact with water, especially seawater, may evolve hydrogen, a flammable gas. Reacts readily with acids and caustic alkali, evolving hydrogen. Reacts readily with iron oxide, producing a thermite effect. Forms explosive mixtures with oxidizing substances.
MFAG-□□	:	138

□□ □□

PCA □□ □□(IATA)	:	E1
PCA □□ □□(IATA)	:	Y443
PCA □□ □□ □□ □□□(IATA)	:	10kg
PCA □□ □□(IATA)	:	446
PCA □□ □□□(IATA)	:	25kg
CAO □□ □□(IATA)	:	449
CAO □□ □□□(IATA)	:	100kg
□□ □□(IATA)	:	A15, A803
ERG □□(IATA)	:	3L

□□ □□ □□

□□ □□(ADN)	:	F3
□□ □□(ADN)	:	59
□□□(ADN)	:	5 kg
□□□(ADN)	:	E1
□□ □□(ADN)	:	PP
□□ □□/□□□ □□(ADN)	:	0

□□ □□

□□ □□(RID)	:	F3
□□ □□(RID)	:	59
□□ □□(RID)	:	5kg
□□□(RID)	:	E1
□□ □□ (RID)	:	P002, IBC08, LP02, R001
□□ □□ (RID)	:	B3
□□ □□ □□ □□ □□(RID)	:	MP11
□□□ □□ □ □□ □□□□ □□ (RID)	:	T1
□□□ □□ □ □□ □□□□ □□ □□ (RID)	:	TP33
RID □□□ □□ □□(RID)	:	SGAV
□□ □□(RID)	:	3
□□ □□ □□ □□ - □□(RID)	:	W1
□□ □□ □□ □□ - □□ □□(RID)	:	VC1, VC2
□□ □□□	:	CE11
□□□ □□ □□ (RID)	:	40

14.7. □□□□□□(IMO)□ □□ □□ □□ □□

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□□ 15: □□ □□□□

15.1. □□, □□ □ □□□ □□□□ □□□□ □□ □□□□ □□ □□ □□/□□

EU □□

REACH □□□ XVII (□□ □□)

EU restriction □□ (REACH Annex XVII)	
□□ □□	□□ □□
40.	MAGNESIUM METAL RIBBON EXTRA PURE

REACH □□□ XIV (□□ □□)

REACH □□□ XIV (□□ □□)□ □□□□ □□

REACH □□ □□ □□ (SVHC)

REACH □□ □□ □□□ □□□ □□□ □□□□ □□

PIC □□ (□□□□□□)

PIC □□□ □□□□ □□ (□□ EU 649/2012)

POP □□ (□□□ □□ □□□□)

POP □□□ □□□□ □□ (□□ EU 2019/1021)

Ozone Regulation (2024/590)

Not listed on the Ozone Depletion list (Regulation EU 2024/590)

□□□□ □□(428/2009)

Contains substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items: Magnesium powder (7439-95-4).

□□ □□□□ □□ (2019/1148)

□□□ □□□□ □□(□□ □□□□□ □□ □ □□□ □□ □□ EU 2019/1148)□ □□□ □□ □□□□ □□

□□ □□□□ □□ (273/2004)

□□ □□□□ □□□ □□□ □□□ □□□□ □□(□□ □ □□□□ □□□ □□ □□□ □□□□ □□ □□□ □□ □ □□□ □□ □□ EC 273/2004)

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□□

VOC ordinance (ChemVOCFarbV) :

WGK : WGK 3, □□ □□ □□□ (Classification according to AwSV).

□□ □□ □□(12. BImSchV) : □□ □□ □□(12. BImSchV)□ □□ □□ □□

□□□□

SZW-lijst van kankerverwekkende stoffen : □□□ □□□□ □□□□□.

SZW-lijst van mutagene stoffen : □□□ □□□□ □□□□□.

SZW-lijst van reprotoxische stoffen – Borstvoeding : □□□ □□□□ □□□□□.

SZW-lijst van reprotoxische stoffen – Vruchtbaarheid : □□□ □□□□ □□□□□.

SZW-lijst van reprotoxische stoffen – Ontwikkeling : □□□ □□□□ □□□□□.

15.2. □□ □□ □□□ □□

No chemical safety assessment has been carried out

□□ 16: □ □□ □□□□

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ACGIH	American Conference of Government Industrial Hygienists
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
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	□□ □□ □
BOD	Biochemical oxygen demand (BOD)
CAS □□	□□□□ □□ □□ □□(CAS)
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
COD	□□□ □□ □□□
CSA	□□ □□ □□□ □□
DMEL	Derived Minimal Effect level
DNEL	□□ □□□ □□
EC □□	□□ □□□ □□
EC50	Median effective concentration
ED	□□□ □□□□
EN	□□ □□
EWC	European waste catalogue
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose

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LOAEL	Lowest Observed Adverse Effect Level
Log Kow	Partition coefficient n-octanol/water (Log Kow)
Log Pow	Partition coefficient n-octanol/water (Log Pow)
MAK	maximum workplace concentration
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
N.O.S.	Not Otherwise Specified
OECD	Organisation for Economic Co-operation and Development
OEL	□□□ □□ □□
OSHA	Occupational Safety & Health Administration
PBT	Persistent Bioaccumulative Toxic
PNEC	□□ □□□ □□
PPE	□□ □□□
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	□□□□□□□□
STP	Sewage treatment plant
TF	□□□ □□
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
TWA	Time Weighted Average
COV	Volatile Organic Compounds
vPvB	Very Persistent and Very Bioaccumulative
UFI	□□ □□ □□□

□H□ □ EUH□ □□:	
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H250	□□□ □□□□ □□□ □□□.
H260	□□ □□ □ □□□□ □□□ □□□ □□□ □□□□.

□□□□□□□□(SDS), EU

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