

Safety Data Sheet

Date of issue: 10/04/2017 Revision date: : Version: 1.0

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

1.1. Product identifier

Product form : Mixture
Product name : EPA 541 IS Mix
Product code : AL0-101630

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

1.2.1. Relevant identified uses

Main use category : Laboratory Use Industrial/Professional use spec : Industrial

For professional use only

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Phenova 6390 Joyce Dr. Suite 100 80403 Golden, CO - United States T 1-866-942-2978 - F 1-866-283-0269 info@phenova.com - www.phenova.com

1.4. Emergency telephone number

Emergency number : ChemTel Assistance (US/Canada) 1-800-255-3924

ChemTel Assistance (International) +1 813-248-0585

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

 Flam. Liq. 2
 H225

 Acute Tox. 3 (Oral)
 H301

 Acute Tox. 3 (Dermal)
 H311

 Acute Tox. 3 (Inhalation:dust,mist)
 H331

 STOT SE 1
 H370

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

F; R11

T; R23/24/25

T; R39/23/24/25

R19

Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labeling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS02





GHS06

GHS08

Signal word (CLP) : Danger
Hazardous ingredients : methanol

Hazard statements (CLP) : H225 - Highly flammable liquid and vapor

H301+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled

H370 - Causes damage to organs

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Precautionary statements (CLP) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking

P233 - Keep container tightly closed

P260 - Do not breathe dust/fume/gas/mist/vapors/spray P270 - Do not eat, drink or smoke when using this product

P271 - Use only outdoors or in a well-ventilated area

P280 - Wear protective gloves/protective clothing/eye protection/face protection P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting

P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water/shower

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

P308+P313 - IF exposed or concerned: Get medical advice/attention

P361+P364 - Take off immediately all contaminated clothing and wash it before reuse

P403+P233 - Store in a well-ventilated place. Keep container tightly closed

EUH phrases : EUH019 - May form explosive peroxides

No labeling applicable

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
methanol	(CAS No) 67-56-1 (EC no) 200-659-6 (EC index no) 603-001-00-X	99.8	Flam. Liq. 2, H225 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Demal), H311 Acute Tox. 3 (Inhalation), H331 STOT SE 1, H370
Chlorobenzene-d5	(CAS No) 3114-55-4 (EC no) 203-628-5 (EC index no) 602-033-00-1	0.1	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
1,4-dioxane-d8	(CAS No) 17647-74-4 (EC no) 241-628-7 (EC index no) 603-024-00-5	0.1	Flam. Liq. 2, H225 Carc. 2, H351 Eye Irrit. 2, H319 STOT SE 3, H335
Name	Product identifier	Specific con	centration limits
methanol	(CAS No) 67-56-1 (EC no) 200-659-6 (EC index no) 603-001-00-X	(3 = <c 10)="" <="" s<br="">(C >= 10) STO</c>	.TOT SE 2, H371 Г SE 1, H370

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. Call a POISON CENTER or

doctor/physician. IF exposed or concerned: Get medical advice/attention.

First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately

call a poison center or doctor/physician.

First-aid measures after skin contact : Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing.

Immediately call a poison center or doctor/physician. Wash with plenty of soap and water.

Wash contaminated clothing before reuse.

First-aid measures after eye contact : Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with

water for several minutes. Obtain medical attention if pain, blinking or redness persist.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Immediately call a

poison center or doctor/physician.

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

Symptoms/injuries after inhalation : Toxic if inhaled. Danger of serious damage to health by prolonged exposure through inhalation.

Symptoms/injuries after skin contact : Repeated exposure to this material can result in absorption through skin causing significant

health hazard. Toxic in contact with skin.

Symptoms/injuries after ingestion : Toxic if swallowed. Swallowing a small quantity of this material will result in serious health hazard.

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

No additional information available

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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Highly flammable liquid and vapor.

Explosion hazard : May form flammable/explosive vapor-air mixture. Heat may build pressure, rupturing closed

containers, spreading fire and increasing risk of burns and injuries. May form explosive

peroxides.

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire-fighting water from entering environment. DO NOT fight fire when fire

reaches explosives. Evacuate area.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection. Avoid breathing dust/fume/gas/mist/vapors/spray.

Emergency procedures : Ventilate area

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up in absorbent material. Collect spillage

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Handle empty containers with care because residual vapors are flammable. Hazardous waste

due to potential risk of explosion.

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. No open flames. No smoking. Use only non-sparking tools. Use only outdoors or in a

well-ventilated area. Keep away from sources of ignition - No smoking.

Hygiene measures : Do not eat, drink or smoke when using this product. Gently wash with plenty of soap and water.

Remove/Take off immediately all contaminated clothing. Wash contaminated clothing before

reuse.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Proper grounding procedures to avoid static electricity should be followed. Ground/bond

container and receiving equipment.

Storage conditions : Keep in fireproof place. Keep container tightly closed. Keep container tightly closed and in a

well-ventilated place. Keep away from any flames or sparking source.

Incompatible products : Oxidizing agent.

Incompatible materials : Direct sunlight. Heat sources.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Chlorobenzene-d5 (3114-55-4)		
USA OSHA	OSHA PEL (TWA) (mg/m³)	350 mg/m³
USA OSHA	OSHA PEL (TWA) (ppm)	75 mppcf

8.2. Exposure controls

Appropriate engineering controls : Either local exhaust or general room ventilation is usually required.

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Personal protective equipment : Avoid all unnecessary exposure. Gloves. Protective clothing. Protective goggles. Safety







Hand protection : Wear chemically resistant protective gloves. Wear suitable gloves resistant to chemical

penetration.

Eye protection : Chemical goggles or safety glasses. Safety glasses.

Skin and body protection : Wear chemically protective gloves, lab coat or apron to prevent prolonged or repeated skin

contact.

Respiratory protection : Where exposure through inhalation may occur from use, respiratory protection equipment is

recommended.

Other information : Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical propertie

Physical state : Liquid Color : Colorless. Odor characteristic рΗ No data available Melting point No data available Freezing point No data available No data available **Boiling point** Flash point No data available Auto-ignition temperature : No data available Decomposition temperature No data available

Flammability (solid, gas) : Highly flammable liquid and vapor

Relative density : No data available Solubility : No data available

Explosive properties : May form explosive peroxides.

Oxidizing properties : No data available Explosion limits : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Highly flammable liquid and vapor. May form flammable/explosive vapor-air mixture.

10.3. Possibility of hazardous reactions

Reacts vigorously with strong oxidizers and acids.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame. Heat. Sparks. Overheating.

10.5. Incompatible materials

Oxidizing agent.

10.6. Hazardous decomposition products

May release flammable gases. May form explosive peroxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Oral: Toxic if swallowed. Dermal: Toxic in contact with skin. Inhalation:dust,mist: Toxic if

inhaled.

EPA 541 IS Mix		
ATE CLP (oral)	100.200 mg/kg body weight	
ATE CLP (dermal)	300.601 mg/kg body weight	
ATE CLP (dust, mist)	0.501 mg/l/4h	

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Chlorobenzene-d5 (3114-55-4)	
LD50 oral rat	> 1427 mg/kg (Rat; Equivalent or similar to OECD 401; Experimental value; >2000 mg/kg bodyweight; Rat)
LD50 dermal rat	> 2000 mg/kg (Rat; Literature study)
LD50 dermal rabbit	> 2200 mg/kg (Rabbit; Literature study)
LC50 inhalation rat (mg/l)	17 mg/l/4h (Rat)
LC50 inhalation rat (ppm)	3630 ppm/4h (Rat)
ATE CLP (gases)	3630.000 ppmV/4h
ATE CLP (vapors)	17.000 mg/l/4h
ATE CLP (dust, mist)	1.500 mg/l/4h
1,4-dioxane-d8 (17647-74-4)	
LD50 oral rat	> 5000 mg/kg (Rat)
LD50 dermal rabbit	7600 mg/kg (Rabbit)
LC50 inhalation rat (mg/l)	53 mg/l/4h (Rat)
LC50 inhalation rat (ppm)	14260 ppm/4h (Rat)
methanol (67-56-1)	
LD50 oral rat	> 5000 mg/kg (Rat; BASF test; Literature study; 1187-2769 mg/kg bodyweight; Rat; Weight cevidence)
LD50 dermal rabbit	15800 mg/kg (Rabbit; Literature study)
LC50 inhalation rat (mg/l)	85 mg/l/4h (Rat; Literature study)
LC50 inhalation rat (ppm)	64000 ppm/4h (Rat; Literature study)
ATE CLP (oral)	100.000 mg/kg body weight
ATE CLP (dermal)	300.000 mg/kg body weight
ATE CLP (gases)	700.000 ppmV/4h
ATE CLP (vapors)	3.000 mg/l/4h
ATE CLP (dust, mist)	0.500 mg/l/4h
Skin corrosion/irritation	: Not classified
	Based on available data, the classification criteria are not met
Serious eye damage/irritation	: Not classified
sonous sys damago/imanon	Based on available data, the classification criteria are not met
Respiratory or skin sensitization	: Not classified
respiratory or skin sensitization	Based on available data, the classification criteria are not met
Corm call mutaganisity	: Not classified
Germ cell mutagenicity	
Danata a manifetta	Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified
	Based on available data, the classification criteria are not met May cause cancer
Reproductive toxicity	: Not classified
	Based on available data, the classification criteria are not met
Specific target organ toxicity (single exposure)	: Causes damage to organs.
Specific target organ toxicity (repeated	: Not classified
exposure)	Based on available data, the classification criteria are not met
Aspiration hazard	: Not classified
	Based on available data, the classification criteria are not met
Potential Adverse human health effects and symptoms	: Toxic if swallowed. Toxic in contact with skin. Toxic if inhaled.

SECTION 12: Ecological information

12.1. Toxicity

Chlorobenzene-d5 (3114-55-4)	
LC50 fish 2	4.7 mg/l (LC50; 96 h)
EC50 Daphnia 2	0.59 mg/l (EC50; OECD 202: Daphnia sp. Acute Immobilisation Test; 48 h; Daphnia magna; Static system; Fresh water; Experimental value)
methanol (67-56-1)	
LC50 fish 1	15400 mg/l (LC50; EPA 660/3 - 75/009; 96 h; Lepomis macrochirus; Flow-through system; Fresh water; Experimental value)
EC50 Daphnia 1	> 10000 mg/l (EC50; DIN 38412-11; 48 h; Daphnia magna; Static system; Fresh water; Experimental value)
LC50 fish 2	10800 mg/l (LC50; 96 h; Salmo gairdneri)

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Chlorobenzene-d5 (3114-55-4) Persistence and degradability Biochemical oxygen demand (BOD) Chemical oxygen demand (COD) ThOD 3OD (% of ThOD) 1,4-dioxane-d8 (17647-74-4) Persistence and degradability No Biochemical oxygen demand (BOD) ThOD 1.8 BOD (% of ThOD) 0 g	03 g O /g substance 41 g O /g substance 06 g O /g substance 0145 ot readily biodegradable in water. Non degradable in the soil. g O /g substance 8 g O /g substance
Chlorobenzene-d5 (3114-55-4) Persistence and degradability Biochemical oxygen demand (BOD) Chemical oxygen demand (COD) ThOD 3OD (% of ThOD) 1,4-dioxane-d8 (17647-74-4) Persistence and degradability No Biochemical oxygen demand (BOD) ThOD 1.8 BOD (% of ThOD) 0 g	ot readily biodegradable in water. Non degradable in the soil. Low potential for adsorption in bil. 03 g O /g substance 41 g O /g substance 06 g O /g substance 0145 ot readily biodegradable in water. Non degradable in the soil. g O /g substance 8 g O /g substance
Persistence and degradability No soi Biochemical oxygen demand (BOD) Chemical oxygen demand (COD) ThOD BOD (% of ThOD) 1,4-dioxane-d8 (17647-74-4) Persistence and degradability No Biochemical oxygen demand (BOD) ThOD 3OD (% of ThOD) 1.8 BOD (% of ThOD)	oil. 03 g O /g substance 41 g O /g substance 06 g O /g substance 0145 ot readily biodegradable in water. Non degradable in the soil. g O /g substance 8 g O /g substance
Soi Biochemical oxygen demand (BOD)	oil. 03 g O /g substance 41 g O /g substance 06 g O /g substance 0145 ot readily biodegradable in water. Non degradable in the soil. g O /g substance 8 g O /g substance
Chemical oxygen demand (COD) 0.4 ThOD 2.0 BOD (% of ThOD) 0.0 1,4-dioxane-d8 (17647-74-4) Persistence and degradability No Biochemical oxygen demand (BOD) 0 g ThOD 1.8 BOD (% of ThOD) 0	41 g O /g substance 06 g O /g substance 0145 ot readily biodegradable in water. Non degradable in the soil. g O /g substance 8 g O /g substance
ThOD	06 g O /g substance 0145 ot readily biodegradable in water. Non degradable in the soil. g O /g substance 8 g O /g substance
BOD (% of ThOD) 1,4-dioxane-d8 (17647-74-4) Persistence and degradability Biochemical oxygen demand (BOD) 1.8 BOD (% of ThOD) 0.0	ot readily biodegradable in water. Non degradable in the soil. g O /g substance 8 g O /g substance
1,4-dioxane-d8 (17647-74-4) Persistence and degradability Biochemical oxygen demand (BOD) ThOD 1.8 BOD (% of ThOD) 0	ot readily biodegradable in water. Non degradable in the soil. g O /g substance 8 g O /g substance
Persistence and degradability No Biochemical oxygen demand (BOD) ThOD 1.8 BOD (% of ThOD) 0	g O /g substance 8 g O /g substance
Biochemical oxygen demand (BOD) 0 g ThOD 1.8 BOD (% of ThOD) 0	g O /g substance 8 g O /g substance
ThOD 1.8 BOD (% of ThOD) 0	8 g O /g substance
BOD (% of ThOD) 0	
	eadily biodegradable in water. Biodegradable in the soil. Highly mobile in soil.
methanol (67-56-1)	eadily biodegradable in water. Biodegradable in the soil. Highly mobile in soil.
Persistence and degradability Re	
Biochemical oxygen demand (BOD) 0.6	6 - 1.12 g O /g substance
Chemical oxygen demand (COD) 1.4	42 g O /g substance
ThOD 1.5	5 g O /g substance
BOD (% of ThOD)	8 (Literature study)
2.3. Bioaccumulative potential	
EPA 541 IS Mix	
Bioaccumulative potential No	ot established.
Chlorobenzene-d5 (3114-55-4)	
	47 (BCF)
	9 - 40 (BCF)
	8 - 2.98
Bioaccumulative potential Lov	ow potential for bioaccumulation (BCF < 500).
1,4-dioxane-d8 (17647-74-4)	
	2 - 0.7 (BCF)
Log Pow -0.	.42 (Experimental value)
Bioaccumulative potential Lo	ow potential for bioaccumulation (BCF < 500).
methanol (67-56-1)	
	10 (BCF; 72 h; Leuciscus idus)
	1.77 (Experimental value; Other)
Bioaccumulative potential Lo	ow potential for bioaccumulation (BCF < 500).
2.4. Mobility in soil	
Chlorobenzene-d5 (3114-55-4)	
	033 N/m (25 °C)
methanol (67-56-1) Surface tension 0.0	023 N/m (20 °C)
	oc,PCKOCWIN v1.66; 1; Calculated value
2.5. Results of PBT and vPvB assessment	OCCITITA VI.OC, I, Calculated Value

No additional information available

12.6. Other adverse effects

Additional information : Avoid release to the environment

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Additional information Handle empty containers with care because residual vapors are flammable. Hazardous waste

due to potential risk of explosion.

Ecology - waste materials : Avoid release to the environment. Hazardous waste due to toxicity.

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SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

 UN-No. (ADR)
 : 1992

 UN-No. (IATA)
 : 1992

 UN-No. (IMDG)
 : 1992

 UN-No.(ADN)
 : 1992

14.2. UN proper shipping name

Proper Shipping Name (ADR) : FLAMMABLE LIQUID, TOXIC, N.O.S.

Proper Shipping Name (IATA) : Flammable liquid, toxic, n.o.s.

Proper Shipping Name (IMDG) : FLAMMABLE LIQUID, TOXIC, N.O.S.

Proper Shipping Name (IMDG) : FLAMMABLE LIQUID, TOXIC, N.O.S.

Proper Shipping Name (ADN) : FLAMMABLE LIQUID, TOXIC, N.O.S.

Transport document description (ADR) : UN 1992 FLAMMABLE LIQUID, TOXIC, N.O.S., 3 (6.1), II, (D/E)

14.3. Packing group

Class (ADR) : 3 Classification code (ADR) : FT1 : 3 Class (IATA) Class (IMDG) : 3 : 3 Class (ADN) Classification code (ADN) : FT1 Subsidiary risks (ADR) : 6.1 Subsidiary risks (IMDG) : 6.1 Hazard labels (ADR) : 3, 6.1



Hazard labels (IATA) : 3, 6.1



Hazard labels (IMDG) : 3, 6.1



Hazard labels (ADN) : 3, 6.1



14.4. Packing group

 Packing group (ADR)
 : II

 Packing group (IATA)
 : II

 Packing group (IMDG)
 : II

 Packing group (ADN)
 : II

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Special precautions for user

14.6.1. Overland transport

Hazard identification number (Kemler No.) : 336 Classification code (ADR) : FT1

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Orange plates : 336

Special provision (ADR): 274Transport category (ADR): 2Tunnel restriction code (ADR): D/ELimited quantities (ADR): 11Excepted quantities (ADR): E2

14.6.2. Transport by sea

Special provision (IMDG) : 274 Limited quantities (IMDG) : 1L Excepted quantities (IMDG) : E2 Packing instructions (IMDG) : P001 IBC packing instructions (IMDG) : IBC02 Tank instructions (IMDG) : T7 Tank special provisions (IMDG) : TP2, TP13 EmS-No. (Fire) : F-E : S-D EmS-No. (Spillage) Stowage category (IMDG) В

Properties and observations (IMDG) : Flammable toxic liquid which is not specified by name in this class or, on account of its

characteristics, in some other class. Toxic if swallowed, by skin contact or by inhalation.

14.6.3. Air transport

CAO packing instructions (IATA) : 364 : 60L CAO max net quantity (IATA) PCA packing instructions (IATA) : 352 : Y341 PCA Limited quantities (IATA) PCA limited quantity max net quantity (IATA) : 1L PCA max net quantity (IATA) : 1L PCA Excepted quantities (IATA) : E2 Special provision (IATA) : A3 ERG code (IATA) : 3HP

14.6.4. Inland waterway transport

Special provision (ADN) : 274, 802
Limited quantities (ADN) : 1 L
Excepted quantities (ADN) : E2
Carriage permitted (ADN) : T

Equipment required (ADN) : PP, EP, EX, TOX, A Ventilation (ADN) : VE01, VE02

Number of blue cones/lights (ADN) : 2
Carriage prohibited (ADN) : No

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

Contains no substances with Annex XVII restrictions

Contains no REACH candidate substance

Contains no REACH Annex XIV substances.

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

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SECTION 16: Other information

Data sources

: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending

Regulation (EC) No 1907/2006.

Other information : None.

PHV SDS EU

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