



## UV-Guard

Version 1.1      Revision Date: 10/10/2018      SDS Number: 400001005085      Date of last issue: 02/26/2018  
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CENTER/doctor.

**Storage:**

Not available

**Disposal:**

P501 Dispose of contents/container to an approved facility in accordance with local, regional, national and international regulations.

**Other hazards**

None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

**Hazardous components**

Chemical name	CAS-No.	Concentration (% w/w)
2-(2-(2-butoxyethoxy)ethoxy)ethanol	143-22-6	5 - 7
sodium 3-(2H-benzotriazol-2-yl)-5-sec-butyl-4-hydroxybenzenesulfonate	92484-48-5	3 - 5
tributyl citrate	77-94-1	<.05

The specific chemical identity and/or exact percentage (concentration) of composition may be withheld as a trade secret.

### SECTION 4. FIRST AID MEASURES

- General advice : Move out of dangerous area.  
 Consult a physician.  
 Show this safety data sheet to the doctor in attendance.  
 Treat symptomatically.  
 Get medical attention if symptoms occur.
- If inhaled : If inhaled, remove to fresh air.  
 Get medical attention if symptoms occur.
- In case of skin contact : Wash with water and soap as a precaution.
- In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.  
 In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
 Continue rinsing eyes during transport to hospital.  
 Remove contact lenses.  
 Keep eye wide open while rinsing.  
 If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.  
 Do NOT induce vomiting.  
 Never give anything by mouth to an unconscious person.  
 If symptoms persist, call a physician.  
 Take victim immediately to hospital.

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Most important symptoms and effects, both acute and delayed : None known.

Notes to physician : Treat symptomatically.

**SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media : High volume water jet

Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : Carbon oxides  
Sulphur oxides

Specific extinguishing methods : No data is available on the product itself.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Refer to protective measures listed in sections 7 and 8.

Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Keep in suitable, closed containers for disposal.

**SECTION 7. HANDLING AND STORAGE**

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

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- Advice on safe handling : Do not breathe vapors/dust.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
To avoid spills during handling keep bottle on a metal tray.  
Dispose of rinse water in accordance with local and national regulations.
- Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.  
Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
Keep in properly labelled containers.
- Materials to avoid : For incompatible materials please refer to Section 10 of this SDS.
- Further information on storage stability : Stable under normal conditions.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

### Personal protective equipment

- Respiratory protection : General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.
- Hand protection  
Material : Neoprene gloves  
Break through time : < 1 h
- Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.
- Eye protection : Eye wash bottle with pure water  
Tightly fitting safety goggles  
Wear face-shield and protective suit for abnormal processing problems.
- Skin and body protection : Impervious clothing  
Choose body protection according to the amount and

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concentration of the dangerous substance at the work place.

Hygiene measures : When using do not eat or drink.  
When using do not smoke.  
Wash hands before breaks and at the end of workday.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Color	: yellow, brown
Odor	: characteristic
Odor Threshold	: No data is available on the product itself.
pH	: 6 - 8 Concentration: 50 g/l
Melting point/freezing point	: No data available
Boiling point	: No data is available on the product itself.
Flash point	: 295 °F / 146 °C Method: Cleveland open cup
Evaporation rate	: No data is available on the product itself.
Flammability (solid, gas)	: No data is available on the product itself.
Flammability (liquids)	: No data is available on the product itself.
Upper explosion limit / Upper flammability limit	: No data is available on the product itself.
Lower explosion limit / Lower flammability limit	: No data is available on the product itself.
Vapor pressure	: No data is available on the product itself.
Relative vapor density	: No data is available on the product itself.
Relative density	: No data is available on the product itself.
Density	: 1 g/cm <sup>3</sup> (68 °F / 20 °C) Method: No information available.
Solubility(ies)	
Water solubility	: 50 g/l (77 °F / 25 °C)
Solubility in other solvents	: No data is available on the product itself.
Partition coefficient: n-octanol/water	: No data is available on the product itself.
Auto-ignition temperature	: No data is available on the product itself.

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Thermal decomposition : No data is available on the product itself.

Self-Accelerating decomposition temperature (SADT) : No data is available on the product itself.

Viscosity : No data is available on the product itself.

Explosive properties : No data is available on the product itself.

Oxidizing properties : No data is available on the product itself.

Molecular weight : No data available

Particle size : No data is available on the product itself.

### SECTION 10. STABILITY AND REACTIVITY

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : No hazards to be specially mentioned.

Conditions to avoid : None known.

Incompatible materials : None known.

Hazardous decomposition products : No hazardous decomposition products are known.

### SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : No data is available on the product itself.

#### Acute toxicity

##### **Components:**

2-(2-(2-butoxyethoxy)ethoxy)ethanol:

Acute oral toxicity : LD50 (Rat): 5,100 mg/kg  
 Components Method: No information available.

sodium 3-(2H-benzotriazol-2-yl)-5-sec-butyl-4-hydroxybenzenesulfonate:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg  
 Components Method: OECD Test Guideline 401  
 Assessment: The substance or mixture has no acute oral toxicity

tributyl citrate:

Acute oral toxicity : LD50 (No information available.): > 2,000 mg/kg  
 Components Assessment: The substance or mixture has no acute oral toxicity

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Acute inhalation toxicity : No data available

Acute dermal toxicity - : Acute toxicity estimate : > 5,000 mg/kg  
Product Method: Calculation method

Acute toxicity (other routes of : No data available  
administration)

**Skin corrosion/irritation****Components:**

sodium 3-(2H-benzotriazol-2-yl)-5-sec-butyl-4-hydroxybenzenesulfonate:  
Species: Rabbit  
Assessment: No skin irritation  
Method: OECD Test Guideline 404  
Result: No skin irritation

**Serious eye damage/eye irritation****Components:**

2-(2-(2-butoxyethoxy)ethoxy)ethanol:  
Species: Rabbit  
Result: Risk of serious damage to eyes.  
Assessment: Risk of serious damage to eyes.

sodium 3-(2H-benzotriazol-2-yl)-5-sec-butyl-4-hydroxybenzenesulfonate:  
Species: Rabbit  
Result: Irreversible effects on the eye  
Assessment: Severe eye irritation  
Method: OECD Test Guideline 405

**Respiratory or skin sensitization****Components:**

2-(2-(2-butoxyethoxy)ethoxy)ethanol:  
Exposure routes: Skin  
Species: Guinea pig  
Method: OECD Test Guideline 406  
Result: Does not cause skin sensitization.

sodium 3-(2H-benzotriazol-2-yl)-5-sec-butyl-4-hydroxybenzenesulfonate:  
Exposure routes: Skin  
Species: Guinea pig  
Method: OECD Test Guideline 406  
Result: Does not cause skin sensitization.

tributyl citrate:  
Exposure routes: Skin  
Species: Guinea pig  
Method: No information available.  
Result: Does not cause skin sensitization.

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**Components:**

sodium 3-(2H-benzotriazol-2-yl)-5-sec-butyl-4-hydroxybenzenesulfonate:  
Assessment: No skin irritation, Causes serious eye damage.  
Does not cause skin sensitization.

**Germ cell mutagenicity****Components:**

sodium 3-(2H-benzotriazol-2-yl)-5-sec-butyl-4-hydroxybenzenesulfonate:  
Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro  
Method: OECD Test Guideline 473  
Result: positive

**Components:**

sodium 3-(2H-benzotriazol-2-yl)-5-sec-butyl-4-hydroxybenzenesulfonate:  
Genotoxicity in vivo : Test Type: In vivo micronucleus test  
Method: OECD Test Guideline 474  
Result: negative

**Components:**

sodium 3-(2H-benzotriazol-2-yl)-5-sec-butyl-4-hydroxybenzenesulfonate:  
Germ cell mutagenicity- : In vitro tests did not show mutagenic effects, In vivo tests did  
Assessment not show mutagenic effects

Germ cell mutagenicity- : No data available  
Assessment

**Carcinogenicity**

No data available

Carcinogenicity - : No data available  
Assessment

**IARC**

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**ACGIH**

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

**OSHA**

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

**NTP**

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**Reproductive toxicity**

Effects on fertility : No data available



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Effects on fetal development : No data available

Reproductive toxicity - Assessment : No data available

**STOT - single exposure**

No data available

**STOT - repeated exposure**

No data available

**Repeated dose toxicity****Components:**

sodium 3-(2H-benzotriazol-2-yl)-5-sec-butyl-4-hydroxybenzenesulfonate:

Species: Rat

NOEL: 200 mg/kg/d

Application Route: Ingestion

Exposure time: 672 h

Method: Subacute toxicity

**Components:**

sodium 3-(2H-benzotriazol-2-yl)-5-sec-butyl-4-hydroxybenzenesulfonate:

Repeated dose toxicity - Assessment : No skin irritation, Causes serious eye damage.

No adverse effect has been observed in chronic toxicity tests.

**Aspiration toxicity**

No data available

**Experience with human exposure**

General Information: No data available

Inhalation: No data available

Skin contact: No data available

Eye contact: No data available

Ingestion: No data available

**Toxicology, Metabolism, Distribution**

No data available

**Neurological effects**

No data available

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**Further information**

Ingestion: No data available

**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Components:**

2-(2-(2-butoxyethoxy)ethoxy)ethanol:

Toxicity to fish : LC50: 2,200 mg/l  
Exposure time: 96 hLC50: 3,400 mg/l  
Method: DIN 38412

sodium 3-(2H-benzotriazol-2-yl)-5-sec-butyl-4-hydroxybenzenesulfonate:

Toxicity to fish : LC50: 420 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203**Components:**

2-(2-(2-butoxyethoxy)ethoxy)ethanol:

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 500 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202EC50 (Daphnia magna (Water flea)): 3,200 mg/l  
Method: DIN 38412

sodium 3-(2H-benzotriazol-2-yl)-5-sec-butyl-4-hydroxybenzenesulfonate:

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 848 mg/l  
Exposure time: 24 h  
Method: OECD Test Guideline 202

tributyl citrate:

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 66.89 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202**Components:**

2-(2-(2-butoxyethoxy)ethoxy)ethanol:

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): > 500 mg/l  
Exposure time: 72 h

sodium 3-(2H-benzotriazol-2-yl)-5-sec-butyl-4-hydroxybenzenesulfonate:

Toxicity to algae : EbC50 (Desmodesmus subspicatus (green algae)): 12 mg/l  
Exposure time: 72 h

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Method: OECD Test Guideline 201

NOEC (Desmodesmus subspicatus (green algae)): 1.9 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

ErC50 (Desmodesmus subspicatus (green algae)): 34 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

NOEC (Desmodesmus subspicatus (green algae)): 4.3 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

tributyl citrate:  
Toxicity to algae

: ErC50 (Pseudokirchneriella subcapitata (green algae)): 100.4 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (green algae)): 6 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201

M-Factor (Acute aquatic toxicity) : No data available

Toxicity to fish (Chronic toxicity) : No data available

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : No data available

M-Factor (Chronic aquatic toxicity) : No data available

### **Components:**

2-(2-(2-butoxyethoxy)ethoxy)ethanol:

Toxicity to microorganisms : EC50: > 300 mg/l  
Exposure time: 0.5 h

sodium 3-(2H-benzotriazol-2-yl)-5-sec-butyl-4-hydroxybenzenesulfonate:

Toxicity to microorganisms : IC50: > 100 mg/l  
Exposure time: 3 h  
Method: OECD Test Guideline 209

Toxicity to soil dwelling organisms : No data available

Plant toxicity : No data available

Sediment toxicity : No data available

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Toxicity to terrestrial organisms : No data available

Ecotoxicology Assessment

**Components:**

sodium 3-(2H-benzotriazol-2-yl)-5-sec-butyl-4-hydroxybenzenesulfonate:  
Acute aquatic toxicity : This product has no known ecotoxicological effects.

**Components:**

sodium 3-(2H-benzotriazol-2-yl)-5-sec-butyl-4-hydroxybenzenesulfonate:  
Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

Toxicity Data on Soil : No data available

Other organisms relevant to the environment : No data available

**Persistence and degradability****Components:**

2-(2-(2-butoxyethoxy)ethoxy)ethanol:  
Biodegradability : Biodegradation: > 70 %  
Method: OECD Test Guideline 302B  
  
Biodegradation: > 90 %  
Exposure time: 28 d  
Method: Directive 67/548/EEC Annex V, C.4.B.

sodium 3-(2H-benzotriazol-2-yl)-5-sec-butyl-4-hydroxybenzenesulfonate:  
Biodegradability : Result: Not biodegradable  
Biodegradation: 0 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301A

tributyl citrate:  
Biodegradability : Test Type: aerobic  
Inoculum: activated sludge  
Result: Readily biodegradable.  
Biodegradation: > 70 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301  
GLP: yes

**Components:**

2-(2-(2-butoxyethoxy)ethoxy)ethanol:  
Biochemical Oxygen Demand (BOD) : 20 mgO<sub>2</sub>/g  
Incubation time: 5 d

sodium 3-(2H-benzotriazol-2-yl)-5-sec-butyl-4-hydroxybenzenesulfonate:  
Biochemical Oxygen Demand (BOD) : 0 mgO<sub>2</sub>/g  
Incubation time: 5 d  
Method: Directive 67/548/EEC, Annex V, C.5

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Chemical Oxygen Demand (COD) - Product : 1795 mgO<sub>2</sub>/g  
BOD/COD : No data available  
ThOD : No data available  
BOD/ThOD : No data available  
Dissolved organic carbon (DOC) : No data available  
Physico-chemical removability : No data available  
Stability in water : No data available  
Photodegradation : No data available  
Impact on Sewage Treatment : No data available

**Bioaccumulative potential**

Bioaccumulation : No data available

**Components:**

sodium 3-(2H-benzotriazol-2-yl)-5-sec-butyl-4-hydroxybenzenesulfonate:

Partition coefficient: n-octanol/water : log Pow: -0.24 (77 °F / 25 °C)  
Method: Partition coefficient

tributyl citrate:

Partition coefficient: n-octanol/water : log Pow: > 3

**Mobility in soil**

Mobility : No data available

Distribution among environmental compartments : No data available

Stability in soil : No data available

**Other adverse effects**

Environmental fate and pathways : No data available

Results of PBT and vPvB assessment : No data available

Endocrine disrupting potential : No data available

Adsorbed organic bound : 0 %

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halogens (AOX) - Product

**Hazardous to the ozone layer**

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82  
Protection of Stratospheric Ozone - CAA Section 602 Class I  
Substances  
Remarks: This product neither contains, nor was  
manufactured with a Class I or Class II ODS as defined by the  
U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A +  
B).

Additional ecological  
information - Product : An environmental hazard cannot be excluded in the event of  
unprofessional handling or disposal.  
Harmful to aquatic life with long lasting effects.

Global warming potential  
(GWP) : No data available

**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

Waste from residues : The product should not be allowed to enter drains, water  
courses or the soil.  
Do not contaminate ponds, waterways or ditches with  
chemical or used container.  
Send to a licensed waste management company.  
Dispose of as hazardous waste in compliance with local and  
national regulations.  
Dispose of contents/ container to an approved waste disposal  
plant.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.

**SECTION 14. TRANSPORT INFORMATION****International Regulations****IATA**

Not regulated as dangerous goods

**IMDG**

Not regulated as dangerous goods

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

Not applicable for product as supplied.

**National Regulations**

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### DOT Classification

Not regulated as dangerous goods

## SECTION 15. REGULATORY INFORMATION

### EPCRA - Emergency Planning and Community Right-to-Know Act

#### CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

**SARA 311/312 Hazards** : Serious eye damage or eye irritation

**SARA 313** : The following components are subject to reporting levels established by SARA Title III, Section 313:

2-(2-(2-	143-22-6	>= 50 - < 70 %
butoxyethoxy)ethoxy)ethan		
ol		

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61):

2-(2-(2-	143-22-6
butoxyethoxy)ethoxy)eth	
anol	

### California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

### The components of this product are reported in the following inventories:

CH INV	: The formulation contains substances listed on the Swiss Inventory, On the inventory, or in compliance with the inventory
DSL	: All components of this product are on the Canadian DSL
AICS	: On the inventory, or in compliance with the inventory
NZIoC	: On the inventory, or in compliance with the inventory
ENCS	: On the inventory, or in compliance with the inventory
KECI	: On the inventory, or in compliance with the inventory
PICCS	: On the inventory, or in compliance with the inventory
IECSC	: On the inventory, or in compliance with the inventory
TCSI	: On the inventory, or in compliance with the inventory
TSCA	: On the inventory, or in compliance with the inventory

### Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

### TSCA - 5(a) Significant New Use Rule List of Chemicals

No substances are subject to a Significant New Use Rule.

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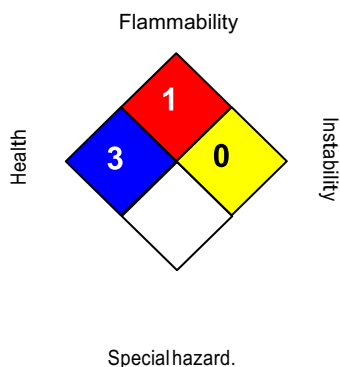
**US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)**

No substances are subject to TSCA 12(b) export notification requirements.

**SECTION 16. OTHER INFORMATION**

**Further information**

**NFPA 704:**



**HMIS® IV:**

<b>HEALTH</b>	<b>3</b>
<b>FLAMMABILITY</b>	<b>1</b>
<b>PHYSICAL HAZARD</b>	<b>0</b>

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

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# SAFETY DATA SHEET



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