

# SDG

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—

CONSTRUCTION ACCESSORIES

TWO COMPONENT  
POLYSULPHIDE SEALANT  
**DATASHEET**

ESSENTIAL COMPONENTS FOR EVERY STAGE OF CONSTRUCTION



## SAFETY DATA SHEET

### ARBOKOL AG2 POROUS SURFACE PRIMER

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

##### 1.1. Product identifier

**Product name** ARBOKOL AG2 POROUS SURFACE PRIMER

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

**Identified uses** Primer for use on porous substrates prior to the application of specified Arbokol products.

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

**Supplier** Adshead Ratcliffe & Co. Ltd.  
 Derby Road, Belper  
 Derbyshire.  
 DE56 1WJ  
 Tel. (+44) 01773 826661  
 Fax. (+44) 01773 821215  
 sds@arbo.co.uk

##### 1.4. Emergency telephone number

**Emergency telephone** (+44) 01773 826661 (office hours only)

#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

###### Classification (EC 1272/2008)

**Physical hazards** Flam. Liq. 2 - H225

**Health hazards** Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Resp. Sens. 1 - H334 Repr. 2 - H361d STOT SE 3 - H335, H336

**Environmental hazards** Not Classified

##### 2.2. Label elements

###### Pictogram



**Signal word**

Danger

###### Hazard statements

H225 Highly flammable liquid and vapour.  
 H315 Causes skin irritation.  
 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.  
 H336 May cause drowsiness or dizziness.  
 H361d Suspected of damaging the unborn child.

## ARBOKOL AG2 POROUS SURFACE PRIMER

<b>Precautionary statements</b>	<p>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</p> <p>P261 Avoid breathing vapours.</p> <p>P280 Wear protective gloves.</p> <p>P280 Wear eye protection.</p> <p>P308+P313 IF exposed or concerned: Get medical advice/ attention.</p> <p>P403+P233 Store in a well-ventilated place. Keep container tightly closed.</p> <p>P501 Dispose of contents/ container in accordance with national regulations.</p>
<b>Contains</b>	<p>ISOBUTYL METHYL KETONE, ETHYL ACETATE, TOLUENE, TOSYL ISOCYANATE, TOLUENE-DIISOCYANATE</p>

### 2.3. Other hazards

#### SECTION 3: Composition/information on ingredients

##### 3.2. Mixtures

<b>ISOBUTYL METHYL KETONE</b>	<b>30-60%</b>
CAS number: 108-10-1	EC number: 203-550-1
<b>Classification</b> Flam. Liq. 2 - H225 Acute Tox. 4 - H332 Eye Irrit. 2 - H319 STOT SE 3 - H335	
<b>ETHYL ACETATE</b>	<b>10-30%</b>
CAS number: 141-78-6	EC number: 205-500-4
<b>Classification</b> Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336	
<b>TOLUENE</b>	<b>5-10%</b>
CAS number: 108-88-3	EC number: 203-625-9
<b>Classification</b> Flam. Liq. 2 - H225 Skin Irrit. 2 - H315 Repr. 2 - H361d STOT SE 3 - H336 STOT RE 2 - H373 Asp. Tox. 1 - H304	

## ARBOKOL AG2 POROUS SURFACE PRIMER

<b>TOSYL ISOCYANATE</b>	<b>1-5%</b>
CAS number: 4083-64-1	EC number: 223-810-8
<b>Classification</b> Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Resp. Sens. 1 - H334 STOT SE 3 - H335	
<b>TOLUENE-DIISOCYANATE</b>	<b>&lt;1%</b>
CAS number: 26471-62-5	EC number: 247-722-4
<b>Classification</b> Acute Tox. 1 - H330 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Resp. Sens. 1 - H334 Skin Sens. 1 - H317 Carc. 2 - H351 STOT SE 3 - H335 Aquatic Chronic 3 - H412	

The full text for all hazard statements is displayed in Section 16.

**Composition comments**      Isocyanate prepolymer, in solution.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

<b>General information</b>	In all cases of doubt, or if symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
<b>Inhalation</b>	Move affected person to fresh air at once. Get medical attention if any discomfort continues.
<b>Ingestion</b>	Rinse mouth thoroughly with water. Give plenty of water to drink. Give milk instead of water if readily available. DO NOT induce vomiting. Get medical attention immediately.
<b>Skin contact</b>	Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing.
<b>Eye contact</b>	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

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

<b>Inhalation</b>	Harmful if inhaled. Vapour may irritate respiratory system/lungs. May cause inhalation hypersensitivity (occupational asthma) in sensitive individuals. May cause drowsiness or dizziness.
<b>Ingestion</b>	May cause stomach pain or vomiting.
<b>Skin contact</b>	Prolonged contact may cause redness, irritation and dry skin.
<b>Eye contact</b>	Irritating to eyes. Symptoms following overexposure may include the following: Redness. Pain.

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

## ARBOKOL AG2 POROUS SURFACE PRIMER

**Notes for the doctor** No specific recommendations.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

**Suitable extinguishing media** Foam, carbon dioxide or dry powder.

**Unsuitable extinguishing media** Do not use water jet as an extinguisher, as this will spread the fire.

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

**Specific hazards** In case of fire, toxic gases may be formed. May ignite at high temperature. Containers can burst violently or explode when heated, due to excessive pressure build-up.

**Hazardous combustion products** Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Hydrogen cyanide (HCN).

#### 5.3. Advice for firefighters

**Protective actions during firefighting** Control run-off water by containing and keeping it out of sewers and watercourses. Cool containers exposed to flames with water until well after the fire is out.

**Special protective equipment for firefighters** Wear self contained breathing apparatus.

### SECTION 6: Accidental release measures

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

**Personal precautions** Wear appropriate protective clothing. Avoid inhalation of vapours and contact with skin and eyes. Eliminate all sources of ignition. Ventilate area to dispel any residual vapours.

#### 6.2. Environmental precautions

**Environmental precautions** Avoid the spillage or runoff entering drains, sewers or watercourses.

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

**Methods for cleaning up** Absorb spillage with non-combustible, absorbent material. Collect and place in suitable waste disposal containers and seal securely. Small Spillages: Absorb small quantities with paper towels and evaporate in a safe place.

#### 6.4. Reference to other sections

**Reference to other sections** For personal protection, see Section 8. See Section 11 for additional information on health hazards. For waste disposal, see section 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

**Usage precautions** Keep away from heat, sparks and open flame. Avoid spilling. Avoid contact with skin and eyes. Provide adequate ventilation. Avoid inhalation of vapours. Use approved respirator if air contamination is above an acceptable level. Wear suitable protective equipment for prolonged exposure and/or high concentrations of vapours, spray or mist.

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

**Storage precautions** Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep away from oxidising materials, heat and flames.

**Storage class** Flammable liquid storage.

#### 7.3. Specific end use(s)

## ARBOKOL AG2 POROUS SURFACE PRIMER

**Usage description** Paintable primer.

### SECTION 8: Exposure Controls/personal protection

#### 8.1. Control parameters

##### Occupational exposure limits

##### **ISOBUTYL METHYL KETONE**

Long-term exposure limit (8-hour TWA): WEL 50 ppm(Sk) 208 mg/m<sup>3</sup>(Sk)

Short-term exposure limit (15-minute): WEL 100 ppm(Sk) 416 mg/m<sup>3</sup>(Sk)

##### **ETHYL ACETATE**

Long-term exposure limit (8-hour TWA): WEL 200 ppm

Short-term exposure limit (15-minute): WEL 400 ppm

##### **TOLUENE**

Long-term exposure limit (8-hour TWA): WEL 50 ppm(Sk) 191 mg/m<sup>3</sup>(Sk)

Short-term exposure limit (15-minute): WEL 100 ppm(Sk) 384 mg/m<sup>3</sup>(Sk)

##### **TOSYL ISOCYANATE**

Long-term exposure limit (8-hour TWA): WEL 0.02 mg/m<sup>3</sup>(Sen)

Short-term exposure limit (15-minute): WEL 0.07 mg/m<sup>3</sup>(Sen)

##### **TOLUENE-DIISOCYANATE**

Long-term exposure limit (8-hour TWA): WEL 0.02 mg/m<sup>3</sup>(Sen)

Short-term exposure limit (15-minute): WEL 0.07 mg/m<sup>3</sup>(Sen)

WEL = Workplace Exposure Limit

#### ISOBUTYL METHYL KETONE (CAS: 108-10-1)

**DNEL**

- Professional - Inhalation; Short term : 208 mg/m<sup>3</sup>
- Professional - Inhalation; Long term : 83 mg/m<sup>3</sup>
- Professional - Dermal; Long term : 11.8 mg/kg/day
- Consumer - Inhalation; Long term : 14.7 mg/m<sup>3</sup>
- Consumer - Inhalation; Short term : 155.2 mg/m<sup>3</sup>
- Consumer - Dermal; Long term : 4.2 mg/kg/day
- Consumer - Oral; Long term : 4.2 mg/kg/day

**PNEC**

- Fresh water; 0.6 mg/l
- Sediment (Freshwater); 8.27 mg/kg
- Marine water; 0.06 mg/l
- Sediment (Marinewater); 0.83 mg/kg
- STP; 27.5 mg/l
- Soil; 1.3 mg/kg

#### ETHYL ACETATE (CAS: 141-78-6)

**DNEL**

- Workers - Inhalation; Long term systemic effects: 734 mg/m<sup>3</sup>
- Workers - Inhalation; Short term systemic effects: 1468 mg/m<sup>3</sup>
- Workers - Inhalation; Long term local effects: 734 mg/m<sup>3</sup>
- Workers - Inhalation; Short term local effects: 1468 mg/m<sup>3</sup>
- Workers - Dermal; Long term systemic effects: 63 mg/kg/day
- General population - Inhalation; Long term systemic effects: 367 mg/m<sup>3</sup>
- General population - Inhalation; Short term systemic effects: 734 mg/m<sup>3</sup>
- General population - Inhalation; Long term local effects: 367 mg/m<sup>3</sup>
- General population - Inhalation; Short term local effects: 734 mg/m<sup>3</sup>
- General population - Dermal; Long term systemic effects: 37 mg/kg/day

## ARBOKOL AG2 POROUS SURFACE PRIMER

<b>PNEC</b>	- Fresh water; 0.24 mg/l
	- Marine water; 0.024 mg/l
	- Intermittent release; 1.65 mg/l
	- STP; 650 mg/l
	- Sediment (Freshwater); 1.15 mg/kg
	- Sediment (Marinewater); 0.115 mg/kg
	- Soil; 0.148 mg/kg

### TOLUENE (CAS: 108-88-3)

<b>DNEL</b>	Workers - Inhalation; Long term systemic effects: 192 mg/m <sup>3</sup>
	Workers - Inhalation; Short term systemic effects: 384 mg/m <sup>3</sup>
	Workers - Inhalation; Long term local effects: 192 mg/m <sup>3</sup>
	Workers - Inhalation; Short term systemic effects: 384 mg/m <sup>3</sup>
	Workers - Dermal; Long term systemic effects: 384 mg/kg/day
	General population - Inhalation; Long term systemic effects: 56.5 mg/m <sup>3</sup>
	General population - Inhalation; Short term systemic effects: 226 mg/m <sup>3</sup>
	General population - Inhalation; Long term local effects: 56.5 mg/m <sup>3</sup>
	General population - Inhalation; Short term local effects: 226 mg/m <sup>3</sup>
	General population - Dermal; Long term systemic effects: 226 mg/kg/day
General population - Oral; Long term systemic effects: 8.13 mg/kg/day	

<b>PNEC</b>	- Fresh water; 0.68 mg/l
	- Marine water; 0.68 mg/l
	- Intermittent release; 0.68 mg/l
	- STP; 13.61 mg/l
	- Sediment (Freshwater); 16.39 mg/kg
	- Sediment (Marinewater); 16.39 mg/kg
	- Soil; 2.89 mg/kg

### 8.2. Exposure controls

#### Protective equipment



#### Appropriate engineering controls

Provide adequate general and local exhaust ventilation. This product must not be handled in a confined space without adequate ventilation.

#### Eye/face protection

The following protection should be worn: Chemical splash goggles.

#### Hand protection

Wear protective gloves made of the following material: Butyl rubber.

#### Other skin and body protection

Use engineering controls to reduce air contamination to permissible exposure level. Provide eyewash station and safety shower. Wear appropriate clothing to prevent any possibility of skin contact.

#### Hygiene measures

Do not smoke in work area. Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly with soap and water if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

#### Respiratory protection

Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit. Chemical respirator with organic vapour cartridge.

## SECTION 9: Physical and Chemical Properties

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

## ARBOKOL AG2 POROUS SURFACE PRIMER

<b>Appearance</b>	Clear liquid.
<b>Colour</b>	Straw.
<b>Odour</b>	Solvent.
<b>Odour threshold</b>	No data available.
<b>pH</b>	Not applicable.
<b>Melting point</b>	Isobutyl methyl ketone: -84°C
<b>Initial boiling point and range</b>	Isobutyl methyl ketone: 117-118°C @ 1013 hPa
<b>Flash point</b>	Isobutyl methyl ketone: 14°C CC (Closed cup).
<b>Evaporation rate</b>	Isobutyl methyl ketone: 1.6 (butyl acetate = 1)
<b>Upper/lower flammability or explosive limits</b>	Upper flammable/explosive limit: Isobutyl methyl ketone: 7.5 Lower flammable/explosive limit: Isobutyl methyl ketone: 1.4
<b>Vapour pressure</b>	Isobutyl methyl ketone: 1.9 kPa @ 20°C
<b>Vapour density</b>	No data available.
<b>Relative density</b>	0.95-1.05 @ 25°C
<b>Solubility(ies)</b>	Isobutyl methyl ketone: 2.0 % water @ 20°C
<b>Partition coefficient</b>	Not applicable.
<b>Auto-ignition temperature</b>	Isobutyl methyl ketone: 460°C
<b>Decomposition Temperature</b>	Not determined.
<b>Viscosity</b>	25 - 80 P @ 20°C
<b>Explosive properties</b>	No specific test data are available.
<b>Oxidising properties</b>	The mixture itself has not been tested but none of the ingredient substances meet the criteria for classification as oxidising.

### 9.2. Other information

**Other information** Not available.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

**Reactivity** Isocyanates react with water to liberate carbon dioxide. Any ingress of moisture into an isocyanate container, whether full or empty, can lead to a pressure build up and subsequent explosion.

### 10.2. Chemical stability

**Stability** Stable at normal ambient temperatures and when used as recommended.

### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** Under normal conditions of storage and use, no hazardous reactions will occur. Will not polymerise.

### 10.4. Conditions to avoid

**Conditions to avoid** Avoid heat, flames and other sources of ignition. Water, moisture.

### 10.5. Incompatible materials



## ARBOKOL AG2 POROUS SURFACE PRIMER

**Materials to avoid** Acids - oxidising. Acids - non-oxidising. Acids - organic. Alkalis - inorganic. Amines. Alcohols, glycols. Water.

### 10.6. Hazardous decomposition products

**Hazardous decomposition products** Fire creates: Vapours/gases/fumes of: Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Nitrous gases (NO<sub>x</sub>). Hydrogen cyanide (HCN).

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity - oral

**Notes (oral LD<sub>50</sub>)** For this endpoint no toxicological data is available for the whole product.

#### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)** For this endpoint no toxicological data is available for the whole product.

#### Acute toxicity - inhalation

**ATE inhalation (gases ppm)** 3,738.57

**ATE inhalation (vapours mg/l)** 14.14

**ATE inhalation (dusts/mists mg/l)** 1.62

#### Skin corrosion/irritation

**Animal data** Irritating.

#### Serious eye damage/irritation

**Serious eye damage/irritation** Causes eye irritation.

#### Respiratory sensitisation

**Respiratory sensitisation** Sensitising.

#### Skin sensitisation

**Skin sensitisation** The product contains a small amount of a sensitising substance which may cause an allergic reaction in sensitive individuals.

#### Germ cell mutagenicity

**Genotoxicity - in vitro** Based on available data the classification criteria are not met.

#### Carcinogenicity

**Carcinogenicity** Based on available data the classification criteria are not met.

#### Reproductive toxicity

**Reproductive toxicity - development** Contains a substance classified as a reproductive toxicant, category 2.

#### Specific target organ toxicity - single exposure

**STOT - single exposure** Based on constituents classified as a specific target organ toxicant after single exposure. May cause drowsiness and dizziness.

#### Specific target organ toxicity - repeated exposure

**STOT - repeated exposure** Not classified as a specific target organ toxicant after repeated exposure.

#### Aspiration hazard

**Aspiration hazard** Based on available data the classification criteria are not met.

## ARBOKOL AG2 POROUS SURFACE PRIMER

<b>Inhalation</b>	Solvent vapours are hazardous and may cause nausea, fatigue, dizziness and headaches. Harmful by inhalation. May cause sensitisation by inhalation. May cause respiratory system irritation. May cause respiratory allergy.
<b>Ingestion</b>	May cause discomfort if swallowed.
<b>Skin contact</b>	May cause skin irritation. The product contains a small amount of sensitising substance. May cause an allergic skin reaction.
<b>Eye contact</b>	Irritating to eyes.
<b>Acute and chronic health hazards</b>	The product contains small quantities of isocyanate. May cause respiratory allergy.
<b>Medical considerations</b>	Chronic respiratory and obstructive airway diseases. Skin disorders and allergies.

### Toxicological information on ingredients.

#### ISOBUTYL METHYL KETONE

##### Acute toxicity - oral

**Notes (oral LD<sub>50</sub>)** LD<sub>50</sub> 2080 mg/kg, Oral, Rat

##### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)** LD<sub>50</sub> >10 mg/kg, Dermal, Rabbit

##### Acute toxicity - inhalation

**Notes (inhalation LC<sub>50</sub>)** LC<sub>50</sub> 2000 - 4000 ppm, Inhalation, Rat

**ATE inhalation (gases ppm)** 4,500.0

**ATE inhalation (vapours mg/l)** 11.0

**ATE inhalation (dusts/mists mg/l)** 1.5

### SECTION 12: Ecological Information

#### 12.1. Toxicity

**Toxicity** There are no data for the product.

#### Ecological information on ingredients.

#### ISOBUTYL METHYL KETONE

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: >179 mg/l, Brachydanio rerio (Zebra Fish)

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: >200 mg/l, Daphnia magna

**Acute toxicity - microorganisms** EC<sub>50</sub>, 16 hours: 275 mg/l, Pseudomonas putida

#### 12.2. Persistence and degradability

**Persistence and degradability** No data available for the product.

#### Ecological information on ingredients.

#### ISOBUTYL METHYL KETONE

## ARBOKOL AG2 POROUS SURFACE PRIMER

**Biodegradation** - 83%: 28 days

### 12.3. Bioaccumulative potential

**Bioaccumulative potential** Bioaccumulation in aquatic organisms is not expected.

**Partition coefficient** Not applicable.

### Ecological information on ingredients.

### ISOBUTYL METHYL KETONE

**Partition coefficient** log Pow: 1.38

### 12.4. Mobility in soil

**Mobility** Not determined.

### 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

### 12.6. Other adverse effects

**Other adverse effects** Not known.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**General information** Waste is classified as hazardous waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Materials such as cleaning rags and paper wipes that are contaminated with flammable liquids may self-ignite after use and should be stored in designated fireproof containers with tight-fitting, self-closing lids.

**Disposal methods** Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Avoid the spillage or runoff entering drains, sewers or watercourses.

**Waste class** HP3 Flammable HP4 Irritant HP5 STOT / Aspiration toxicity HP10 Toxic for reproduction HP13 Sensitising Recommended EWC Code 14 06 03\*

## SECTION 14: Transport information

### 14.1. UN number

**UN No. (ADR/RID)** 1866

**UN No. (IMDG)** 1866

**UN No. (ICAO)** 1866

**UN No. (ADN)** 1866

### 14.2. UN proper shipping name

**Proper shipping name (ADR/RID)** RESIN SOLUTION

**Proper shipping name (IMDG)** RESIN SOLUTION

**Proper shipping name (ICAO)** RESIN SOLUTION

**Proper shipping name (ADN)** RESIN SOLUTION

## ARBOKOL AG2 POROUS SURFACE PRIMER

### 14.3. Transport hazard class(es)

ADR/RID class	3
ADR/RID classification code	F1
ADR/RID label	3
IMDG class	3
ICAO class/division	3
ADN class	3

#### Transport labels



### 14.4. Packing group

ADR/RID packing group	II
IMDG packing group	II
ADN packing group	II
ICAO packing group	II

### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant  
No.

### 14.6. Special precautions for user

EmS	F-E, S-E
ADR transport category	2
Emergency Action Code	•3YE
Hazard Identification Number (ADR/RID)	33
Tunnel restriction code	(D/E)

### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

#### SECTION 15: Regulatory information

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

<b>EU legislation</b>	Regulation (EC) 1907/2006 REACH (as amended). Regulation (EC) 1272/2008 CLP (as amended).
<b>Guidance</b>	Workplace Exposure Limits EH40.

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

#### SECTION 16: Other information

Revision comments	General review
Revision date	15/05/2017

The logo for SDG, consisting of the letters 'SDG' in a bold, sans-serif font. The 'S' and 'D' are connected, and the 'G' is separate. The logo is white and centered on a dark teal background.

# SDG

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