

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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

Product identifier

Product form : Mixture

Product name : Acidified Alcohol, 1%

Product code : RS4035

Other means of identification : Hydrochloric Acid Solution in Ethanol

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

Use of the substance/mixture : For laboratory and manufacturing use only.

1.3. Details of the supplier of the safety data sheet

Avantik

19 Chapin Road - Building C Pine Brook, NJ 07058 1-800-783-9424

Emergency telephone number

Emergency number : 800-424-9300

SECTION 2: Hazards identification

Classification of the substance or mixture

GHS-US classification

Flam. Liq. 2 H225 Acute Tox. 4 (Oral) H302 Skin Irrit. 2 H315 Eve Irrit. 2A H319 STOT SE 3 H335 STOT SE 1 H370

2.2. **Label elements**

GHS-US labelling

Hazard pictograms (GHS-US)





GHS07

Signal word (GHS-US) : Danger

: H225 - Highly flammable liquid and vapour Hazard statements (GHS-US)

H302 - Harmful if swallowed H315 - Causes skin irritation H319 - Causes serious eve irritation H335 - May cause respiratory irritation

H370 - Causes damage to organs (liver, kidneys) (oral)

Precautionary statements (GHS-US) : P210 - Keep away from heat, hot surfaces, open flames, sparks. - No smoking

P233 - Keep container tightly closed

P240 - Ground/bond container and receiving equipment

P241 - Use explosion-proof electrical, lighting, ventilating equipment

P242 - Use only non-sparking tools

P243 - Take precautionary measures against static discharge

P260 - Do not breathe mist, spray, vapours P264 - Wash exposed skin thoroughly after handling

P270 - Do not eat, drink or smoke when using this product P271 - Use only outdoors or in a well-ventilated area

P280 - Wear eye protection, face protection, protective clothing, protective gloves

P301+P312 - IF SWALLOWED: call a POISON CENTER or doctor/physician if you feel unwell P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated

clothing. Rinse skin with water/shower

P304+P340 - IF INHALED: remove victim to fresh air and keep at rest in a position comfortable

for breathing

P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact

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lenses, if present and easy to do. Continue rinsing

P312 - Call a POISON CENTER/doctor/physician if you feel unwell

P330 - If swallowed, rinse mouth

P332+P313 - If skin irritation occurs: Get medical advice/attention P337+P313 - If eye irritation persists: Get medical advice/attention P362 - Take off contaminated clothing and wash before reuse

P370+P378 - In case of fire: Use carbon dioxide (CO2), powder, alcohol-resistant foam for

extinction

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

P235 - Keep cool P405 - Store locked up

P501 - Dispose of contents/container to comply with local, state and federal regulations

Other hazards

Other hazards not contributing to the classification

: None.

Unknown acute toxicity (GHS-US)

No data available

SECTION 3: Composition/information on ingredients

Substance

Not applicable

Full text of H-phrases: see section 16

3.2. **Mixture**

| Name | Product identifier | % | GHS-US classification |
|----------------------------|--------------------|----|--|
| Reagent Alcohol | (CAS No) 64-17-5 | 75 | Flam. Liq. 2, H225 Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Repr. 2, H361 STOT SE 3, H335 STOT SE 1, H370 |
| Water | (CAS No) 7732-18-5 | 24 | Not classified |
| Hydrochloric Acid, 37% w/w | (CAS No) 7647-01-0 | 1 | Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 3, H402 |

SECTION 4: First aid measures

Description of first aid measures

First-aid measures general

First-aid measures after inhalation

: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice

(show the label where possible). Call a POISON CENTER or doctor/physician.

: Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON

CENTER/doctor/physician if you feel unwell.

Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Wash First-aid measures after skin contact with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs:

Get medical advice/attention.

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to First-aid measures after eye contact

do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a POISON First-aid measures after ingestion

CENTER/doctor/physician if you feel unwell.

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

Symptoms/injuries : Causes damage to organs (liver, kidneys) (Ingestion).

Symptoms/injuries after inhalation Coughing. May cause respiratory irritation.

Symptoms/injuries after skin contact Caustic burns/corrosion of the skin. Causes skin irritation.

Symptoms/injuries after eye contact Causes serious eye irritation.

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

Symptoms/injuries upon intravenous : Not available.

administration

: Dry skin. Cracking of the skin. Lung tissue affection/degeneration. Affection of the renal tissue. Chronic symptoms Affection/discolouration of the teeth.

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

No additional information available

SECTION 5: Firefighting measures

5.1. **Extinguishing media**

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

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 vapour.

Explosion hazard : May form flammable/explosive vapour-air mixture.

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.

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

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

General measures Remove ignition sources. Use special care to avoid static electric charges. No naked lights. No

smoking.

6.1.1. For non-emergency personnel

Protective equipment : Gloves. Safety glasses. Protective clothing.

Emergency procedures Evacuate unnecessary personnel.

6.1.2. For emergency responders

: Equip cleanup crew with proper protection. Avoid breathing mist, Vapors, spray. Protective equipment

Emergency procedures Ventilate area.

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

Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect Methods for cleaning up

spillage. Store away from other materials.

Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

Precautions for safe handling

Additional hazards when processed : Handle empty containers with care because residual vapours are flammable.

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

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

well-ventilated area. Do not breathe mist, vapours, spray.

Hygiene measures Do not eat, drink or smoke when using this product. Wash exposed skin thoroughly after

handling.

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. Use explosion-proof electrical/ventilating/lighting/...

: Keep only in the original container in a cool, well ventilated place away from : Heat sources, Storage conditions

Direct sunlight, incompatible materials, Ignition sources. Keep in fireproof place. Keep container

tightly closed.

Incompatible products : Strong bases. Strong acids. Strong oxidizers. metals. Incompatible materials

: Sources of ignition. Direct sunlight. Heat sources.

Heat and ignition sources : KEEP SUBSTANCE AWAY FROM: ignition sources. heat sources.

Prohibitions on mixed storage KEEP SUBSTANCE AWAY FROM: (strong) bases. oxidizing agents. metals.

Storage area Fireproof storeroom.

Packaging materials : MATERIAL TO AVOID: aluminium, copper, iron, steel, tin, zinc.

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7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| Reagent Alcohol (64-17-5) | | |
|---------------------------|------------------------|------------|
| USA OSHA | OSHA PEL (TWA) (mg/m³) | 1900 mg/m³ |
| USA OSHA | OSHA PEL (TWA) (ppm) | 1000 ppm |

8.2. Exposure controls

Appropriate engineering controls : Emergency eye wash fountains and safety showers should be available in the immediate vicinity

of any potential exposure.

Personal protective equipment : Avoid all unnecessary exposure.

Hand protection : Wear protective gloves.

Eye protection : Chemical goggles or safety glasses. Skin and body protection : Wear suitable protective clothing.

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 properties

Physical state : Liquid

Appearance : Clear, colorless liquid.

Colour : Colourless.
Odour : mild.

Odour threshold : No data available

pH : ≤1

Relative evaporation rate (butylacetate=1) : No data available No data available Melting point Freezing point : No data available Boiling point : No data available Flash point No data available Self ignition temperature : No data available Decomposition temperature No data available Flammability (solid, gas) No data available Vapour pressure : No data available Relative vapour density at 20 °C : No data available Relative density : No data available

Solubility : Soluble in water. Soluble in ethanol.

Log Pow : No data available
Log Kow : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosive properties : Not applicable.

Oxidising properties : None.

Explosive limits : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

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10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame.

10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidizers. metals.

10.6. Hazardous decomposition products

Hydrogen chloride. Carbon monoxide. Carbon dioxide. May release flammable gases.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Harmful if swallowed.

| Hydrochloric Acid, 37% w/w (7647-01 | -0) |
|-------------------------------------|--|
| LD50 oral rat | 700 mg/kg |
| LD50 dermal rabbit | 5010 mg/kg |
| Reagent Alcohol (64-17-5) | |
| LD50 oral rat | 10740 mg/kg bodyweight (Rat; Experimental value,Rat; Experimental value) |
| LD50 dermal rabbit | > 16000 mg/kg (Rabbit) |
| Water (7732-18-5) | |
| LD50 oral rat | ≥ 90000 mg/kg |
| Skin corrosion/irritation | : Causes skin irritation. |
| | pH: ≤ 1 |
| Serious eye damage/irritation | : Causes serious eye irritation. |
| | pH: ≤ 1 |
| Respiratory or skin sensitisation | : Not classified |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |

| Hydrochloric Acid, 37% w/w (7647-01-0) | |
|--|----------------------|
| IARC group | 3 - Not classifiable |

| Reagent Alcohol (64-17-5) | |
|---------------------------|----------------------------|
| IARC group | 1 - Carcinogenic to humans |

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : May cause respiratory irritation. Causes damage to organs (liver, kidneys) (oral).

| Specific target organ toxicity (repeated | : Not classified |
|--|------------------|
| exposure) | |

Aspiration hazard : Not classified

Potential Adverse human health effects and : Based on available data, the classification criteria are not met. Harmful if swallowed.

Potential Adverse human health effects and symptoms

Symptoms/injuries after inhalation : Coughing. May cause respiratory irritation.

Symptoms/injuries after skin contact : Caustic burns/corrosion of the skin. Causes skin irritation.

Symptoms/injuries after eye contact : Causes serious eye irritation.

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

Symptoms/injuries upon intravenous : Not available. administration

Chronic symptoms : Dry skin. Cracking of the skin. Lung tissue affection/degeneration. Affection of the renal tissue.

Affection/discolouration of the teeth.

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SECTION 12: Ecological information

12.1. **Toxicity**

| Hydrochloric Acid, 37% w/w (7647-01-0) | |
|--|---|
| LC50 fishes 1 | 282 mg/l (96 h; Gambusia affinis; Pure substance) |
| EC50 Daphnia 1 | < 56 mg/l (72 h; Daphnia magna; Pure substance) |
| LC50 fish 2 | 862 mg/l (Leuciscus idus; Pure substance) |
| TLM fish 1 | 282 ppm (96 h; Gambusia affinis; Pure substance) |

| Reagent Alcohol (64-17-5) | |
|---|---|
| LC50 fishes 1 | 14200 mg/l (96 h; Pimephales promelas; Nominal concentration) |
| EC50 Daphnia 1 | 9300 mg/l (48 h; Daphnia magna) |
| LC50 fish 2 | 13000 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss) |
| EC50 Daphnia 2 | 10800 mg/l (24 h; Daphnia magna) |
| Threshold limit other aquatic organisms 1 | 65 mg/l (72 h; Protozoa) |
| Threshold limit algae 1 | 1450 mg/l (192 h; Microcystis aeruginosa; Growth rate) |
| Threshold limit algae 2 | 5000 mg/l (168 h; Scenedesmus quadricauda; Growth rate) |

Persistence and degradability

| Acidified Alcohol, 1% | |
|-------------------------------|------------------|
| Persistence and degradability | Not established. |

| Hydrochloric Acid, 37% w/w (7647-01-0) | |
|--|---|
| Persistence and degradability | Biodegradability: not applicable. No (test)data on mobility of the components of the mixture available. |
| Biochemical oxygen demand (BOD) | Not applicable |
| Chemical oxygen demand (COD) | Not applicable |
| ThOD | Not applicable |
| BOD (% of ThOD) | Not applicable |

| Reagent Alcohol (64-17-5) | |
|---------------------------------|--|
| Persistence and degradability | Readily biodegradable in water. Biodegradable in the soil. No (test)data on mobility of the substance available. |
| Biochemical oxygen demand (BOD) | 0.8 - 0.967 g O²/g substance |
| Chemical oxygen demand (COD) | 1.70 g O²/g substance |
| ThOD | 2.10 g O²/g substance |
| BOD (% of ThOD) | 0.43 % ThOD |

| Water (7732-18-5) | |
|-------------------------------|------------------|
| Persistence and degradability | Not established. |

12.3. **Bioaccumulative potential**

| Acidified Alcohol, 1% | |
|--|--|
| Bioaccumulative potential Not established. | |
| Hydrochloric Acid 37% w/w (7647-01-0) | |

| Hydrochloric Acid, 37% w/w (7647-01-0) | |
|--|--|
| Log Pow | 0.25 (QSAR) |
| Bioaccumulative potential | Low potential for bioaccumulation (Log Kow < 4). |

| Reagent Alcohol (64-17-5) | |
|---------------------------|--|
| Log Pow | -0.31 (Experimental value) |
| Bioaccumulative potential | Low potential for bioaccumulation (Log Kow < 4). |

| Water (7732-18-5) | |
|---------------------------|------------------|
| Bioaccumulative potential | Not established. |

Mobility in soil 12.4.

| Hydrochloric Acid, 37% w/w (7647-01-0) | |
|--|-------------------|
| Ecology - soil May be harmful to plant growth, blooming and fruit formation. | |
| Reagent Alcohol (64-17-5) | |
| Surface tension | 0.022 N/m (20 °C) |

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12.5. Other adverse effects

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Dispose of contents/container to comply with local, state and federal regulations.

Additional information : Handle empty containers with care because residual vapours are flammable.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

In accordance with DOT

Transport document description : UN1993 Flammable liquids, n.o.s. (Ethanol), 3, II

UN-No.(DOT) : 1993 DOT NA no. : UN1993

DOT Proper Shipping Name : Flammable liquids, n.o.s.

Ethano

Department of Transportation (DOT) Hazard

Classes

: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120

Hazard labels (DOT) : 3 - Flammable liquid



DOT Symbols : G - Identifies PSN requiring a technical name

Packing group (DOT) : II - Medium Danger

DOT Special Provisions (49 CFR 172.102) : IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite

(31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized.

TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / (1 + a (tr - tf)) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.

TP8 - A portable tank having a minimum test pressure of 1.5 bar (150 kPa) may be used when

the flash point of the hazardous material transported is greater than 0 C (32 F).

TP28 - A portable tank having a minimum test pressure of 2.65 bar (265 kPa) may be used provided the calculated test pressure is 2.65 bar or less based on the MAWP of the hazardous material, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the

MAWP.

DOT Packaging Exceptions (49 CFR 173.xxx) : 150

DOT Packaging Non Bulk (49 CFR 173.xxx) : 202

DOT Packaging Bulk (49 CFR 173.xxx) : 242
DOT Quantity Limitations Passenger aircraft/rail : 5 L

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 60 L

CFR 175.75)

DOT Vessel Stowage Location

: B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this

section is exceeded.

Additional information

Other information : No supplementary information available.

ADR

Transport document description :

Transport by sea

No additional information available

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Listed on the United States TSCA (Toxic Substances Control Act) inventory

Air transport

No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

| Acidified Alcohol, 1% | |
|---|---------------------------------|
| SARA Section 311/312 Hazard Classes | Fire hazard |
| | Immediate (acute) health hazard |
| Hydrochloric Acid, 37% w/w (7647-01-0) | |
| nyurochione Acid, 37% W/W (7647-01-0) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| RQ (Reportable quantity, section 304 of EPA's | 5000 lb |
| List of Lists): | |
| SARA Section 311/312 Hazard Classes | Immediate (acute) health hazard |
| | |
| Reagent Alcohol (64-17-5) | |
| SARA Section 311/312 Hazard Classes | Immediate (acute) health hazard |
| | Fire hazard |
| Water (7732-18-5) | |
| 114101 (1102 10 0) | |

15.2. International regulations

CANADA

| CANADA | |
|------------------------------------|--|
| Acidified Alcohol, 1% | |
| WHMIS Classification | Class D Division 2 Subdivision B - Toxic material causing other toxic effects Class E - Corrosive Material |
| Hydrochloric Acid, 37% w/w (7647- | 01-0) |
| Listed on the Canadian DSL (Domest | ic Sustances List) inventory. |
| WHMIS Classification | Class E - Corrosive Material |
| Reagent Alcohol (64-17-5) | |
| WHMIS Classification | Class B Division 2 - Flammable Liquid Class D Division 2 Subdivision A - Very toxic material causing other toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects |
| Water (7732-18-5) | |
| Listed on the Canadian DSL (Domest | ic Sustances List) inventory. |
| WHMIS Classification | Uncontrolled product according to WHMIS classification criteria |

EU-Regulations

No additional information available

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

Classification according to Directive 67/548/EEC or 1999/45/EC

Not classified

15.2.2. National regulations

| Hydrochloric Acid, 37% w/w (7647-01-0) |
|---|
| Listed on the Canadian Ingredient Disclosure List |

| Water | (7732- | 18-5) |
|-------|--------|-------|
| | | |

Not listed on the Canadian Ingredient Disclosure List

15.3. US State regulations

No additional information available

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SECTION 16: Other information

Other information : None.

Full text of H-phrases: see section 16:

| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4 | |
|---------------------|--|--|
| Aquatic Acute 3 | Hazardous to the aquatic environment — AcuteHazard, Category 3 | |
| Eye Dam. 1 | Serious eye damage/eye irritation, Category 1 | |
| Eye Irrit. 2A | Serious eye damage/eye irritation, Category 2A | |
| Flam. Liq. 2 | Flammable liquids, Category 2 | |
| Repr. 2 | Reproductive toxicity, Category 2 | |
| Skin Corr. 1B | Skin corrosion/irritation, Category 1B | |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 | |
| STOT SE 1 | Specific target organ toxicity — single exposure, Category 1 | |
| STOT SE 3 | Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation | |
| H225 | Highly flammable liquid and vapour | |
| H302 | Harmful if swallowed | |
| H314 | Causes severe skin burns and eye damage | |
| H315 | Causes skin irritation | |
| H318 | Causes serious eye damage | |
| H319 | Causes serious eye irritation | |
| H335 | May cause respiratory irritation | |
| H361 | Suspected of damaging fertility or the unborn child | |
| H370 | Causes damage to organs | |
| H402 | Harmful to aquatic life | |

NFPA health hazard : 2 - Intense or continued exposure could cause temporary

incapacitation or possible residual injury unless prompt

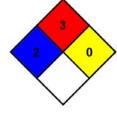
medical attention is given.

NFPA fire hazard : 3 - Liquids and solids that can be ignited under almost all

ambient conditions.

NFPA reactivity : 0 - Normally stable, even under fire exposure conditions,

and are not reactive with water.



HMIS III Rating

Health : 2 Moderate Hazard - Temporary or minor injury may occur

Flammability : 3 Serious Hazard
Physical : 0 Minimal Hazard

Personal Protection : D

SDS US (GHS HazCom 2012)

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