



Safety Data Sheet

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SECTION 1: Identification

1.1. Product identifier

3M™ Bathroom Cleaner Concentrate (Product No. 44, 3M™ Chemical Management Systems)

Product Identification Numbers

| ID Number | UPC | ID Number | UPC |
|----------------|-------------------|----------------|-------------------|
| 61-0000-6360-4 | | 61-0000-6395-0 | |
| 61-0000-6424-8 | | 70-0713-1361-6 | 500-48011-59164-8 |
| 70-0713-1362-4 | 500-48011-59165-5 | 70-0716-5993-5 | 500-51125-85929-0 |
| 70-0716-8326-5 | 500-48011-59164-8 | 70-0716-8327-3 | 500-48011-59165-5 |

1.2. Recommended use and restrictions on use

Recommended use

Mild acid cleaner removes soap scum and scale from bathroom surfaces including plastic, porcelain, ceramic, fiberglass, floors and fixtures. Do not use on marble surfaces. This product meets Green Seal™ Standard GS-37 based on effective performance, concentrated volume, minimized/recycled packaging, and protective limits on: VOCs and human & environmental toxicity. Acute toxicity and skin/eye damage met requirements at the as-used dilution, as specified for closed dilution systems. GreenSeal.org., Hard Surface Cleaner

1.3. Supplier's details

| | |
|----------------------|---|
| MANUFACTURER: | 3M |
| DIVISION: | Commercial Solutions Division |
| ADDRESS: | 3M Center, St. Paul, MN 55144-1000, USA |
| Telephone: | 1-888-3M HELPS (1-888-364-3577) |

1.4. Emergency telephone number

1-800-364-3577 or (651) 737-6501 (24 hours)

SECTION 2: Hazard identification

2.1. Hazard classification

Corrosive to metal: Category 1.
Serious Eye Damage/Irritation: Category 1.
Skin Corrosion/Irritation: Category 1.
Specific Target Organ Toxicity (single exposure): Category 3.

2.2. Label elements

Signal word

Danger

Symbols

Corrosion | Exclamation mark |

Pictograms**Hazard Statements**

May be corrosive to metals.

Causes severe skin burns and eye damage.

May cause respiratory irritation.

Precautionary Statements**Prevention:**

Keep only in original container.

Do not breathe dust/fume/gas/mist/vapors/spray.

Use only in a well-ventilated area.

Wear protective gloves, protective clothing, and eye/face protection.

Wash thoroughly after handling.

Response:

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a POISON CENTER or doctor/physician.

Wash contaminated clothing before reuse.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

Specific treatment (see Notes to Physician on this label).

Absorb spillage to prevent material damage.

Storage:

Store in a corrosive resistant container with a resistant inner liner.

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

Store locked up.

Disposal:

Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

2.3. Hazards not otherwise classified

May cause chemical gastrointestinal burns. May cause chemical respiratory tract burns.

33% of the mixture consists of ingredients of unknown acute inhalation toxicity.

SECTION 3: Composition/information on ingredients

| Ingredient | C.A.S. No. | % by Wt |
|------------|------------|---------|
|------------|------------|---------|

| | | |
|--------------------------------------|------------|--------------------------|
| 1-OCTYL-2-PYRROLIDINONE | 2687-94-7 | 10 - 30 Trade Secret * |
| WATER | 7732-18-5 | 10 - 30 Trade Secret * |
| HYDROXYACETIC ACID | 79-14-1 | 10 - 30 Trade Secret * |
| MALIC ACID | 6915-15-7 | 10 - 30 Trade Secret * |
| AMINES, COCO ALKYLDIMETHYL, N-OXIDES | 61788-90-7 | 1 - 5 Trade Secret * |
| ETHOXYLATED C9-11 ALCOHOLS | 68439-46-3 | 1 - 5 Trade Secret * |
| Fragrance Added | Mixture | 0.1 - 1.5 Trade Secret * |

*The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:

Remove person to fresh air. Get immediate medical attention.

Skin Contact:

Immediately flush with large amounts of water for at least 15 minutes. Remove contaminated clothing. Get immediate medical attention. Wash clothing before reuse.

Eye Contact:

Immediately flush with large amounts of water for at least 15 minutes. Remove contact lenses if easy to do. Continue rinsing. Immediately get medical attention.

If Swallowed:

Rinse mouth. Do not induce vomiting. Get immediate medical attention.

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

See Section 11.1. Information on toxicological effects.

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

Not applicable

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

Material will not burn. Use a fire fighting agent suitable for the surrounding fire. Non-combustible. Use a fire fighting agent suitable for surrounding fire.

5.2. Special hazards arising from the substance or mixture

None inherent in this product.

Hazardous Decomposition or By-Products

Substance

Carbon monoxide
Carbon dioxide
Oxides of Nitrogen

Condition

During Combustion
During Combustion
During Combustion

5.3. Special protective actions for fire-fighters

No special protective actions for fire-fighters are anticipated.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

6.2. Environmental precautions

Avoid release to the environment. For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water.

6.3. Methods and material for containment and cleaning up

Contain spill. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible. Place in a metal container approved for use in transportation by appropriate authorities. The container must be lined with polyethylene plastic or contain a plastic drum liner made of polyethylene. Clean up residue with water. Cover, but do not seal for 48 hours. Dispose of collected material as soon as possible.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

For industrial or professional use only. This product is not intended to be used without prior dilution as specified on the product label. Grounding or safety shoes with electrostatic dissipating soles (ESD) are not required with a chemical dispensing system. Keep out of reach of children. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment. Wash contaminated clothing before reuse. Keep away from reactive metals (eg. Aluminum, zinc etc.) to avoid the formation of hydrogen gas that could create an explosion hazard.

7.2. Conditions for safe storage including any incompatibilities

Store in a well-ventilated place. Keep container tightly closed. Keep only in original container. Store in a corrosive resistant container with a resistant inner liner. Store away from strong bases.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

| Ingredient | C.A.S. No. | Agency | Limit type | Additional Comments |
|--------------------|------------|--------|--------------------------|---------------------|
| HYDROXYACETIC ACID | 79-14-1 | CMRG | TWA:10 mg/m ³ | |

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

CMRG : Chemical Manufacturer's Recommended Guidelines

OSHA : United States Department of Labor - Occupational Safety and Health Administration

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

8.2. Exposure controls

8.2.1. Engineering controls

Use in a well-ventilated area. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapors/spray. If ventilation is not adequate, use respiratory protection equipment. NOTE: When used with a chemical dispensing system as directed, special ventilation is not

required.

8.2.2. Personal protective equipment (PPE)

Eye/face protection

NOTE: When used with a chemical dispensing system as directed, eye contact with the concentrate is not expected to occur. If the product is not used with a chemical dispensing system or if there is an accidental release, wear protective eye/face protection.

If product is not used with a chemical dispensing system or if there is an accidental release:

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended:

Full Face Shield

Indirect Vented Goggles

Skin/hand protection

NOTE: When used with a chemical dispensing system as directed, skin contact with the concentrate is not expected to occur. If product is not used with a chemical dispensing system or if there is an accidental release:

Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing.

Note: Nitrile gloves may be worn over polymer laminate gloves to improve dexterity.

Gloves made from the following material(s) are recommended: Polyvinyl Chloride

Polymer laminate

If product is not used with a chemical dispensing system or if there is an accidental release:

If this product is used in a manner that presents a higher potential for exposure (eg. spraying, high splash potential etc.), then use of protective coveralls may be necessary. Select and use body protection to prevent contact based on the results of an exposure assessment. The following protective clothing material(s) are recommended:

Apron - polymer laminate

Apron - PVC

Respiratory protection

NOTE: When used with a chemical dispensing system as directed, respiratory protection is not required.

If product is not used with a chemical dispensing system or if there is an accidental release:

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:

Half facepiece or full facepiece air-purifying respirator suitable for organic vapors and particulates

For questions about suitability for a specific application, consult with your respirator manufacturer.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|--------------------------------|------------------------------------|
| General Physical Form: | Liquid |
| Specific Physical Form: | Liquid |
| Odor, Color, Grade: | Green color with floral fragrance. |
| Odor threshold | <i>No Data Available</i> |
| pH | Approximately 0.9 - 1.5 |

| | |
|---|--|
| Boiling Point | > 95 °F |
| Flash Point | No flash point |
| Flammability (solid, gas) | Not Applicable |
| Vapor Pressure | 15 psia - 40 psia [@ 131 °F] |
| Specific Gravity | Approximately 1.12 [Ref Std: WATER=1] |
| Solubility in Water | Complete |
| Solubility- non-water | No Data Available |
| Decomposition temperature | No Data Available |
| Viscosity | Approximately 100 centipoise |
| Hazardous Air Pollutants | No Data Available |
| Volatile Organic Compounds | < 0.00001 [Test Method: calculated per CARB title 2] |
| Percent volatile | No Data Available |
| VOC Less H2O & Exempt Solvents | <=0 g/l [Test Method: calculated per CARB title 2] |

SECTION 10: Stability and reactivity

10.1. Reactivity

This material may be reactive with certain agents under certain conditions - see the remaining headings in this section.

10.2. Chemical stability

Stable.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

Strong bases

10.6. Hazardous decomposition products

Substance

None known.

Condition

Refer to section 5.2 for hazardous decomposition products during combustion.

SECTION 11: Toxicological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

11.1. Information on Toxicological effects

Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

Inhalation:

May be harmful if inhaled. Respiratory Tract Corrosion: Signs/symptoms may include nasal discharge, severe nose and

throat pain, chest tightness and pain, coughing up blood, wheezing, and breathlessness, possibly progressing to respiratory failure.

Skin Contact:

Corrosive (Skin Burns): Signs/symptoms may include localized redness, swelling, itching, intense pain, blistering, ulceration, and tissue destruction.

Eye Contact:

Corrosive (Eye Burns): Signs/symptoms may include cloudy appearance of the cornea, chemical burns, severe pain, tearing, ulcerations, significantly impaired vision or complete loss of vision.

Ingestion:

May be harmful if swallowed.

Gastrointestinal Corrosion: Signs/symptoms may include severe mouth, throat and abdominal pain; nausea; vomiting; and diarrhea; blood in the feces and/or vomitus may also be seen.

Toxicological Data

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

Acute Toxicity

| Name | Route | Species | Value |
|--------------------------------------|--------------------------------|-------------------|---|
| Overall product | Inhalation-Dust/Mist(4 hr) | | No data available; calculated ATE 5 - 12.5 mg/l |
| Overall product | Ingestion | | No data available; calculated ATE 2,000 - 5,000 mg/kg |
| 1-OCTYL-2-PYRROLIDINONE | Dermal | Rabbit | LD50 > 2,000 mg/kg |
| 1-OCTYL-2-PYRROLIDINONE | Ingestion | Rat | LD50 2,050 mg/kg |
| HYDROXYACETIC ACID | Inhalation-Dust/Mist (4 hours) | Rat | LC50 2.5 mg/l |
| HYDROXYACETIC ACID | Ingestion | Rat | LD50 2,040 mg/kg |
| MALIC ACID | Ingestion | Rat | LD50 > 3,200 mg/kg |
| MALIC ACID | Dermal | similar compounds | LD50 > 20,000 mg/kg |
| MALIC ACID | Inhalation-Dust/Mist (4 hours) | similar compounds | LC50 > 1.306 mg/l |
| AMINES, COCO ALKYLDIMETHYL, N-OXIDES | Dermal | | LD50 estimated to be 2,000 - 5,000 mg/kg |
| AMINES, COCO ALKYLDIMETHYL, N-OXIDES | Ingestion | Rat | LD50 > 2,000 mg/kg |
| ETHOXYLATED C9-11 ALCOHOLS | Dermal | Rabbit | LD50 > 2,000 mg/kg |
| ETHOXYLATED C9-11 ALCOHOLS | Ingestion | Rat | LD50 1,378 mg/kg |
| Fragrance Added | Dermal | Rabbit | LD50 > 5,000 mg/kg |
| Fragrance Added | Ingestion | Rat | LD50 4,498 mg/kg |

ATE = acute toxicity estimate

Skin Corrosion/Irritation

| Name | Species | Value |
|--------------------------------------|-----------------------|---------------|
| HYDROXYACETIC ACID | Rabbit | Corrosive |
| MALIC ACID | Rabbit | Mild irritant |
| AMINES, COCO ALKYLDIMETHYL, N-OXIDES | Professional judgment | Mild irritant |
| ETHOXYLATED C9-11 ALCOHOLS | Rabbit | Irritant |

Serious Eye Damage/Irritation

| Name | Species | Value |
|------|---------|-------|
|------|---------|-------|

| | | |
|--------------------------------------|-----------------------|-----------------|
| | | |
| HYDROXYACETIC ACID | Rabbit | Corrosive |
| MALIC ACID | Rabbit | Severe irritant |
| AMINES, COCO ALKYLDIMETHYL, N-OXIDES | Professional judgment | Corrosive |
| ETHOXYLATED C9-11 ALCOHOLS | Professional judgment | Corrosive |

Skin Sensitization

| Name | Species | Value |
|--------------------------------------|-------------------|-----------------|
| HYDROXYACETIC ACID | Guinea pig | Not sensitizing |
| MALIC ACID | similar compounds | Not sensitizing |
| AMINES, COCO ALKYLDIMETHYL, N-OXIDES | similar compounds | Not sensitizing |
| ETHOXYLATED C9-11 ALCOHOLS | Guinea pig | Not sensitizing |

Respiratory Sensitization

For the component/components, either no data are currently available or the data are not sufficient for classification.

Germ Cell Mutagenicity

| Name | Route | Value |
|----------------------------|----------|---------------|
| HYDROXYACETIC ACID | In Vitro | Not mutagenic |
| HYDROXYACETIC ACID | In vivo | Not mutagenic |
| MALIC ACID | In Vitro | Not mutagenic |
| ETHOXYLATED C9-11 ALCOHOLS | In Vitro | Not mutagenic |

Carcinogenicity

For the component/components, either no data are currently available or the data are not sufficient for classification.

Reproductive Toxicity

Reproductive and/or Developmental Effects

| Name | Route | Value | Species | Test Result | Exposure Duration |
|----------------------------|-----------|--|---------|-----------------------------|----------------------|
| HYDROXYACETIC ACID | Ingestion | Some positive developmental data exist, but the data are not sufficient for classification | Rat | NOAEL 150 mg/kg/day | during gestation |
| MALIC ACID | Ingestion | Not toxic to female reproduction | Rat | NOAEL 10000 ppm in the diet | 2 generation |
| MALIC ACID | Ingestion | Not toxic to development | Rat | NOAEL 350 mg/kg/day | during organogenesis |
| MALIC ACID | Ingestion | Some positive male reproductive data exist, but the data are not sufficient for classification | Rat | NOAEL 2,000 mg/kg/day | 104 weeks |
| ETHOXYLATED C9-11 ALCOHOLS | Dermal | Not toxic to female reproduction | Rat | NOAEL 250 mg/kg/day | 2 generation |
| ETHOXYLATED C9-11 ALCOHOLS | Dermal | Not toxic to development | Rat | NOAEL 250 mg/kg/day | 2 generation |
| ETHOXYLATED C9-11 ALCOHOLS | Dermal | Some positive male reproductive data exist, but the data are not sufficient for classification | Rat | NOAEL 100 mg/kg/day | 2 generation |

Target Organ(s)**Specific Target Organ Toxicity - single exposure**

| Name | Route | Target Organ(s) | Value | Species | Test Result | Exposure Duration |
|--------------------------------------|------------|------------------------|--|---------------|---------------------|-------------------|
| AMINES, COCO ALKYLDIMETHYL, N-OXIDES | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | | NOAEL Not available | |
| ETHOXYLATED C9-11 ALCOHOLS | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Not available | NOAEL Not available | not available |

Specific Target Organ Toxicity - repeated exposure

| Name | Route | Target Organ(s) | Value | Species | Test Result | Exposure Duration |
|----------------------------|------------|---|--|---------|-----------------------|-------------------|
| HYDROXYACETIC ACID | Inhalation | heart hematopoietic system liver immune system kidney and/or bladder respiratory system | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 1.4 mg/l | 2 weeks |
| HYDROXYACETIC ACID | Ingestion | kidney and/or bladder | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 400 mg/kg/day | 248 days |
| HYDROXYACETIC ACID | Ingestion | hematopoietic system | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 600 mg/kg/day | 90 days |
| HYDROXYACETIC ACID | Ingestion | liver | Some positive data exist, but the data are not sufficient for classification | Other | LOAEL 97 mg/kg/day | 59 days |
| HYDROXYACETIC ACID | Ingestion | muscles nervous system | All data are negative | Rat | NOAEL 600 mg/kg/day | 90 days |
| HYDROXYACETIC ACID | Ingestion | respiratory system | All data are negative | Dog | NOAEL 500 mg/kg/day | 119 days |
| MALIC ACID | Ingestion | heart endocrine system hematopoietic system liver kidney and/or bladder | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 2,500 mg/kg/day | 104 weeks |
| ETHOXYLATED C9-11 ALCOHOLS | Dermal | kidney and/or bladder | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 125 mg/kg/day | 13 weeks |
| ETHOXYLATED C9-11 ALCOHOLS | Dermal | hematopoietic system | All data are negative | Rat | NOAEL 125 mg/kg/day | 13 weeks |

Aspiration Hazard

For the component/components, either no data are currently available or the data are not sufficient for classification.

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

SECTION 12: Ecological information**Ecotoxicological information**

Please contact the address or phone number listed on the first page of the SDS for additional ecotoxicological information on this material and/or its components.

Chemical fate information

Please contact the address or phone number listed on the first page of the SDS for additional chemical fate information on this material and/or its components.

SECTION 13: Disposal considerations

13.1. Disposal methods

Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Dispose of waste product in a permitted industrial waste facility. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

EPA Hazardous Waste Number (RCRA): D002 (Corrosive)

SECTION 14: Transport Information

For Transport Information, please visit <http://3M.com/Transportinfo> or call 1-800-364-3577 or 651-737-6501.

SECTION 15: Regulatory information

15.1. US Federal Regulations

311/312 Hazard Categories:

Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No Immediate Hazard - Yes Delayed Hazard - No

15.2. State Regulations

15.3. Chemical Inventories

The components of this material are in compliance with the provisions of Australia National Industrial Chemical Notification and Assessment Scheme (NICNAS). Certain restrictions may apply. Contact the selling division for additional information.

The components of this product are in compliance with the new substance notification requirements of CEPA.

The components of this material are in compliance with the China "Measures on Environmental Management of New Chemical Substance". Certain restrictions may apply. Contact the selling division for additional information.

The components of this material are in compliance with the provisions of the Korean Toxic Chemical Control Law. Certain restrictions may apply. Contact the selling division for additional information.

The components of this material are in compliance with the provisions of Philippines RA 6969 requirements. Certain restrictions may apply. Contact the selling division for additional information.

The components of this product are in compliance with the chemical notification requirements of TSCA.

15.4. International Regulations

This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SECTION 16: Other information

NFPA Hazard Classification

Health: 3 Flammability: 0 Instability: 0 Special Hazards: None
Acid/Base: Acid Corrosive: Yes

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

HMIS Hazard Classification

Health: 3 Flammability: 0 Physical Hazard: 0 Personal Protection: X - See PPE section.

Hazardous Material Identification System (HMIS® IV) hazard ratings are designed to inform employees of chemical hazards in the workplace. These ratings are based on the inherent properties of the material under expected conditions of normal use and are not intended for use in emergency situations. HMIS® IV ratings are to be used with a fully implemented HMIS® IV program. HMIS® is a registered mark of the American Coatings Association (ACA).

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