

# Sumgas LS mini to 250 Ton



## SECTION 1: Product and company identification

**Product Identifier:** SUMGAS LS

**Version:** 2.0

**Revision Date:** 3/24/2021

**Product Description:** Home A/C sealant for homes

**Supplier Details:** SUMGAS

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## SECTION 2: Hazards Identification

### Classification of Substance

#### GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS):

Physical, Flammable Liquids, 2  
Physical, Flammable Liquids, 3  
Health, Aspiration hazard, 1  
Health, Skin corrosion/irritation, 2 Health, Skin corrosion/irritation, 3 Health, Serious Eye Damage/Eye Irritation, 2 A  
Health, Acute toxicity, 5 Inhalation  
Health, Specific target organ toxicity - Single exposure, 3  
Health, Reproductive toxicity, 2  
Health, Specific target organ toxicity - Repeated exposure, 2  
Environmental, Hazards to the aquatic environment - Acute, 2

#### GHS Label Elements, Including Precautionary Statements

**GHS Signal Word:** DANGER

**GHS Hazard Pictograms:**



#### GHS Hazard Statements:

H22 5- Highly flammable liquid and vapor  
H226 Flammable liquid and vapor  
H304-May be fatal if swallowed and enters airways  
H315 Causes skin irritation  
H316 Causes mild skin irritation  
H319-Causes serious eye irritation  
H333-May be harmful if inhaled  
H336 May cause drowsiness or dizziness H361  
- Suspected of damaging fertility or the unborn child (state specific effect if known)(state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)  
H373-May cause damage to organs (state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)  
H401- Toxic to aquatic life

### GHS Precautionary Statements:

P201- Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P2E- Keep away from heat/sparks/open flames/hot surfaces. P233 Keep container tightly closed.  
P240-Ground/bond container and receiving equipment.  
P241- Use explosion-proof electrical/ ventilating/ lighting/ equipment.  
P242-Use only non-sparking tools.  
P243 -Take precautionary measures against static discharge.  
P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.  
P261- Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
P264 - Wash skin thoroughly after handling.  
P271- Use only outdoors or in a well-ventilated area.  
P273- Avoid release to the environment.  
P280 -Wear protective gloves/ protective clothing/ eye protection/ face protection.  
P301+P3E - IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.  
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 lenses, if present and easy to do. Continue rinsing.  
P308 + P313- IF exposed or concerned: Get medical advice/ attention.  
P321-Specific treatment (see supplemental first aid instructions on this label).  
P331- Do NOT induce vomiting.  
P332+ P313- If skin irritation occurs: Get medical advice/ attention.  
P362-Take off contaminated clothing and wash before reuse.  
P370 P378- In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.  
P403 + P233-Store in a well-ventilated place. Keep container tightly closed.  
P403 + P235 - Store in a well-ventilated place. Keep cool.  
P405-Store locked up. Ethyl alcohol (CAS# 64-17-5) 100%  
P501 - Dispose of contents/ container to an approved waste disposal plant.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### Chemical Ingredients:

CAS#	%	Chemical Name:
78-08-0		Silane, ethenyltriethoxy
108-88-3		Toluene
64-17-5		Ethyl alcohol

## SECTION 4: FIRST AID MEASURES

**Inhalation:** If symptoms occur: go into open air and ventilate suspected area. Call a POISON CENTER or doctor/physician if symptoms persist.

**Skin Contact:** Wash thoroughly and if symptoms persist seek medical attention. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Eye Contact:** Immediately call a POISON CENTER or doctor/physician.

**Ingestion:** Do not induce vomiting. Immediately call a POISON CENTER or doctor/physician.

## SECTION 5: FIRE FIGHTING MEASURES

### 5.1. Extinguishing Media

**Suitable Extinguishing Media:** Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).

**Unsuitable Extinguishing Media:** Do not use a heavy water stream. Use of heavy stream of water may spread fire.

### 5.2. Special Hazards Arising from the Substance or Mixture

**Fire Hazard:** Flammable liquid

**Explosion Hazard:** Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.

**Reactivity:** May explode if heated. Reacts with strong oxidants causing fire and explosion hazard.

### 5.3. Advice for Firefighters

**Precautionary Measures Fire:** Exercise caution when fighting any chemical fire.

**Firefighting Instructions:** In case of fire: Evacuate area. fight fire remotely due to the risk of explosion. use water spray or fog for cooling exposed containers.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

**General Measures:** Use special care to avoid static electric charges. Keep away from open flames, hot surfaces and sources of ignition. No smoking. Do not get in eyes, on skin, or on clothing. Do not breathe gas.

#### 6.1.1. For Non-emergency Personnel

**Protective Equipment:** Use appropriate personal protection equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel. Eliminate ignition sources.

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1.2. For Emergency Responders

**Protective Equipment:** Equip clean up crew with proper protection.

**Emergency Procedures:** Stop Leak if safe to do so. Ventilate area.

### 6.2. Environmental Precautions

Avoid release to the environment.

**6.3. Methods and Material for Containment and Cleaning Up For Containment:** Stop leaks without risks if possible.

**Do not take up in combustible material such as:** sawdust or cellulosic material

**Methods for Cleaning Up:** Contact competent authorities after a spill.

### 6.4. Reference to Other Sections

See Heading 8. Exposure controls and personal protection. For further information refer to section 13.

## SECTION 7: HANDLING AND STORAGE

### Handling Precautions:

#### 7.1. Precautions for Safe Handling

**Precautions for Safe Handling:** Ensure there is adequate ventilation.

**Storage Requirements: Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work.

#### 7.2. Conditions for Safe Storage, Including Any Incompatibilities

**Technical Measures:** Comply with applicable regulations. Keep at temperatures below 52 °C/125 °F.

**Storage Conditions:** Store in a dry, cool and well-ventilated place. Keep in fireproof place. Store locked up.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering Controls:** Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed.

**Personal Protective Equipment:** HMIS PP, JI Splash Goggles, Gloves, Apron, Dust and Vapor Resp Silane,



ethenyltriethoxy- cas#: [78-08-0] [20-75%]

### Personal Protective Equipment

**Respiratory Protection:** Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Hand Protection:** Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

### Full contact Material:

**Nitrile rubber Minimum layer thickness:** 0.4 mm

**Breakthrough time:** 480 min

**Material tested:** Camatril (KCL 730/ Aldrich 2677442, Size M)

**Splash contact data source:** KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374 If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

**Eye Protection:** Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (U5) or EN 166(EU)

**Skin and Body Protection:** Impervious clothing, Flame retardant anti-static protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Toluene cas:{108-88-3} [←1%]

### Full Contact:

**Material:** butyl-rubber

**Minimum layer thickness:** 0.3 mm

**Breakthrough time:** 480 min

**Material tested:** Butoject (KCL 897/ Aldrich 2677647, Size M)

### Splash Contact:

**Material:** Nitrile rubber

**Minimum layer thickness:** 0.2 mm

**Break through time:** 38 min

**Material tested:** Dermatril P (KCL 743/ Aldrich 2677388, Size M)

**Data source:** KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374 If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

**Body Protection:** Impervious clothing, Flame retardant antistatic protective clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory Protection:** Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Control of Environmental Exposure:** Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**Silane, ethenyltriethoxy- cas#:(78-08-0) (2075%):** No data available

**Toluene cas#:** (108-88-3) (←1%)

Components with workplace control parameters

TWA	100 ppm 375 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminats - 1910.1000
STEL	150 ppm 560 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminats - 1910.1000
TWA	200 ppm	USA. Occupational Exposure Limits (OSHA) - Table 22
CEIL	300 ppm	USA. Occupational Exposure Limits (OSHA) - Table 22
Peak	500 ppm	USA. Occupational Exposure Limits (OSHA) - Table 22
TWA	20 ppm	USA. ACGIH Threshold Limit Values (TLV)

Visual impairment  
Female reproductive  
Pregnancy loss 2010 Adoption Substances for which there is a Biological Exposure Index or Indices (see BEI section)  
Not classifiable as a human carcinogen

TWA	100 ppm 375 mg/m3	USA. NIOSH Recommended Exposure Limits
ST	150 ppm 560 mg/m3	USA. NIOSH Recommended Exposure Limits
TWA	1,000 ppm	USA. ACGIH Threshold Limit Values (TLV)

Upper Respiratory Tract Irritation Confirmed animal carcinogen with relevance to humans

TWA	1,000 ppm 1,900 mg/m3	USA. NIOSH Recommended Exposure Limits
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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Clear  
**Physical State:** Liquid  
**Odor Threshold:** No data available  
**Specific Gravity or Density:** No data available  
**Viscosity:** No data available  
**Boiling Point:** 78° C (172.4° F)  
**Partition Coefficient:** No data available  
**Vapor Pressure:** No data available

**Odor:** Amine  
**Solubility:** No data available  
**Freezing or Melting Point:** -117° C (178.6° F)  
**Flash Point:** 17° C (62.6° F)  
**Vapor Density:** → 1 (heavier than air)  
**Autoignition Temperature:** 425° C (797° F)  
**Upper Flammability Limit and Lower Flammability Limit:** 15%, 3.5%

**Potentia Hydrogen:** No data available  
**Evaporation Rate:** No data available  
**Decompression Temperature:** No data available

## SECTION 10: STABILITY AND REACTIVITY

**Reactivity:** Reacts with oxidants causing fire and explosion hazard.  
**Chemical Stability:** Stable under recommended handling and storage conditions.  
**Conditions to Avoid:** Direct sunlight. Extremely high or low temperatures. Open flame.  
**Materials to Avoid:** Heat. Sparks. Heat. Strong oxidizers.  
**Hazardous Decomposition:** Carbon oxides (CO, CO2).  
**Hazardous Polymerization:** Hazardous Polymerization will not occur.

## SECTION 11: TOXICOLOGICAL INFORMATION

Silane, ethenyltriethoxy- cas#: (78-08-0)

### Information on Toxicological Effects

#### Acute toxicity:

Oral LD50 Inhalation LC50 Dermal LD50 LD50 Dermal - rabbit - 9,100 mg/kg.  
Other information on acute toxicity no data available.

**Skin corrosion/irritation: Serious eye damage/eye irritation:** no data available.

#### Carcinogenicity:

**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

**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.

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

**Reproductive toxicity:** no data available

**Teratogenicity:** no data available

**Specific target organ toxicity - single exposure (Globally Harmonized System):** Inhalation - May cause respiratory irritation.

**Specific target organ toxicity - repeated exposure (Globally Harmonized System):** no data available

**Aspiration hazard: no data available. Potential health effects:** Inhalation May be harmful if inhaled. Causes respiratory tract irritation. Ingestion May be harmful if swallowed Skin May be harmful if absorbed through skin. Causes skin irritation. Eyes Causes eye irritation.

**Signs and Symptoms of Exposure:** To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**Synergistic effects:** no data available

**Additional Information: RTECS:** VV6700000

**Toluene cas#:**(108-88-3).

### Information on toxicological effects

#### Acute toxicity:

LD50 Oral-rat → 5,580 mg/kg

LC50 Inhalation-rat-4 h-12,500-28,800 mg/m3

LD50 Dermal - rabbit - 12,196 mg/kg

**Skin corrosion/irritation:** No data available

**Skin- rabbit Result:** Skin irritation - 24 h.

**Serious eye damage/eye irritation:** no data available.

**Respiratory or skin sensitisation: no data available Germ cell mutagenicity:** rat Liver DNA damage

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## Carcinogenicity:

**IARC: 3 Group 3:** Not classifiable as to its carcinogenicity to humans (Toluene)

**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

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

**Reproductive toxicity:** Damage to fetus possible Suspected human reproductive toxicant

## Reproductive toxicity- rat - Inhalation:

**Paternal Effects:** Spermatogenesis (including genetic material, sperm morphology, motility, and count).

Experiments have shown reproductive toxicity effects in male and female laboratory animals.

## Developmental Toxicity rat - Oral:

**Effects on Embryo or Fetus:** Fetotoxicity (except death, e.g., stunted fetus).

**Specific target organ toxicity single exposure:** no data available.

**Specific target organ toxicity repeated exposure:** no data available

**Aspiration hazard:** no data available

## Additional Information:

**RTECS:** XS5250000

Lung irritation, chest pain, pulmonary edema, Inhalation studies on toluene have demonstrated the development of inflammatory and ulcerous lesions of the penis, prepuce, and scrotum in animals. Stomach - Irregularities - Based on Human Evidence Ethyl alcohol cas#:{64-17-5}

**Ethyl alcohol cas#:**{64-17-5}

## Information on toxicological effects

**Acute toxicity:**LD50 Oral-rat-7,060 mg/kg

**Remarks:** Lungs, Thorax, or Respiration: Other changes. LC50 Inhalation-rat- 10 h-20000 ppm

**Dermal:** no data available

**Skin corrosion/irritation:** Skin - rabbit

**Result:** No skin irritation - 24 h (OECD Test Guideline 404)

**Serious eye damage/eye irritation:** Eyes - rabbit

**Result:** Mild eye irritation - 24 h (OECD Test Guideline 405)

**Respiratory or skin sensitisation:** no data available

**Germ cell mutagenicity:** no data available

## Carcinogenicity:

**Carcinogenicity-mouse- Oral:**

**Tumorigenic:** Equivocal tumorigenic agent by RTECS criteria. Liver: Tumors. Blood: Lymphomas including Hodgkins disease.

**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 LARC.

## SECTION 12: ECOLOGICAL INFORMATION

**Silane, ethenyltriethoxy- cas#:{78-08-0} [20-75%]**

### Information on Ecological Effects

**Toxicity:** No data available

**Persistence and Degradability:** No data available

**Bioaccumulative Potential:** No data available Mobility

**In Soil:** No data available

**PBT and vPvB Assessment:** No data available

**Other Adverse Effects:** No data available

**Toluene cas#:**{108-88-3} [←1%]

## Information on Ecological Effects

Toxicity

Toxicity to fish LC50-Oncorhynchus mykiss (rainbow trout) - 7.63 mg/l - 96 h. NOEC Pimephales promelas (fathead minnow)-5.44 mg/l-7d Toxicity to daphnia and EC50-Daphnia magna (Water flea) -8.00 mg/l-24 h. other aquatic invertebrates

Immobilization EC50 - Daphnia magna (Water flea)- 6 mg/l - 48 h Toxicity to algae EC50- Chlorella vulgaris (Freshwater algae)- 245.00 mg/l-24 h.

**EC50 Pseudokirchneriella subcapitata (green algae) - 10.00 mg/l - 24 h**

## Persistence and Degradability:

**Biodegradability Result:** - Readily biodegradable.

**Bioaccumulative Potential:** No data available.

**Mobility in Soil:** No data available.

Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

**Other Adverse Effects:** An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic life.

**Ethyl alcohol cas#:{64-17-5} [2-25%]**

**Information on Ecological Effects Toxicity:** No data available

**Persistence and Degradability:** No data available

**Bioaccumulative Potential:** No data available

**Mobility in Soil:** No data available

Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

**Other Adverse Effects:** No data available

## SECTION 13: DISPOSAL CONSIDERATIONS

**Silane, ethenyltriethoxy- cas #:{78-08-0} [20-75%]**

### Waste Treatment Methods

**Product:** Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Contaminated Packaging: Dispose of as unused product.

**Toluene cas#: (108-88-3) [←1%]**

### Waste Treatment Methods

**Product:** Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Contaminated Packaging: Dispose of as unused product.

**Ethyl alcohol cas#: (64-17-5) [2-25%]**

### Waste Treatment Methods

**Product:** Contact a licensed professional waste disposal service to dispose of this material. Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.

**Contaminated Packaging:** Dispose of as unused product.

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## SECTION 14: TRANSPORT INFORMATION

**DOT:** Consumer Commodity, ORM-D

**IATA:** UN1993, Flammable liquids, n.o.s., 3 PGIII

**IMDG:** UN1993, Flammable liquids, n.o.s., 3 PGIII

## SECTION 15: REGULATORY INFORMATION

[%1 RQ (CAS#) Substance - Reg Codes

[-+-%] Silane, ethenyltriethoxy- (78-08-0) TSCA

[-] RQ(1000LBS), Toluene (108-88-3) CERCLA, CSWHS, EPCRAWPC, HAP, MASS, NJHS, OSHAWAC, PA, PRIPOL, PROP65, SARA313, TOXICPOL, TOXICRCRA, TSCA, TXAIR, TXHWL

[%] Ethyl alcohol (64-17-5) MASS, OSHAWAC, PA, TSCA, TXAIR

### WARNING

This product can expose you to chemicals including Toluene, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

### Regulatory Code Legend

RQ- Reportable Quantity TSCA Toxic Substances Control Act

CERCLA- Superfund clean up substance.

CSWHS Clean Water Act Hazardous substances

EPCRAWPC EPCRA Water Priority Chemicals

HAP Hazardous Air Pollutants

MASS-MA Massachusetts Hazardous Substances List

NJ HS NJ Right-to-Know Hazardous Substances PA PA Right-To-Know List of Hazardous Substances PRIPOL Clean

Water Act Priority Pollutants PROP65 CA Prop 65

OSHA OSHA Workplace Air Contaminants

SARA313- SARA 313 Title III Toxic Chemicals

TOXICPOL= Clean Water Act Toxic Pollutants

TOXICRCRA- RCRA Toxic Hazardous Wastes (U-List) TXAIR TX Air Contaminants with Health Effects Screening Level

TXHWL- TX Hazardous Waste List

## SECTION 16: OTHER INFORMATION

**Revision Date:** 3/24/2021

**Disclaimer:** Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy or completeness of the information contained herein, and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequences of its use. Each individual should make a determination as to the suitability of the information for their particular purpose(s).

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**Publication Date:** 1/14/2020