



## SAFETY DATA SHEET AC19 Brush Magic

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

#### 1.1. Product identifier

Product name Brush Magic

Product number AC19

REACH registration number 01-2119969502-33-XXXX

CAS number 4431-83-8

EC number 224-631-8

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

Identified uses Cleaning agent for model hobby.

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

Supplier Deluxe Materials Ltd  
Unit 12/13 Cufaude Business Park,  
Cufaude Lane, Bramley  
Hampshire RG26 5DL  
United Kingdom  
+44 (0)1256 883 944

john@deluxematerials.com

#### 1.4. Emergency telephone number

Emergency telephone +44 (0)1256 883 944 (Mon to Friday office hours only)

Sds No.

### SECTION 2: Hazards identification

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

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

Physical hazards Not Classified

Health hazards Not Classified

Environmental hazards Not Classified

#### 2.2. Label elements

EC number 224-631-8

Hazard statements NC Not Classified

#### 2.3. Other hazards

This substance is not classified as PBT or vPvB according to current EU criteria.

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### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

<b>2,5,7,10-TETRAOXAUNDECANE</b>		<b>99 - 100%</b>
CAS number: 4431-83-8	EC number: 224-631-8	REACH registration number: 01-2119969502-33-XXXX
<b>Classification</b> Not Classified		

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

<b>Product name</b>	Brush Magic
<b>REACH registration number</b>	01-2119969502-33-XXXX
<b>CAS number</b>	4431-83-8
<b>EC number</b>	224-631-8
<b>Composition comments</b>	The data shown are in accordance with the latest EC Directives.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

<b>Inhalation</b>	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if any discomfort continues.
<b>Ingestion</b>	Rinse mouth thoroughly with water. Do not induce vomiting. Get medical advice/attention if you feel unwell.
<b>Skin contact</b>	Remove affected person from source of contamination. After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. Get medical attention if any discomfort continues.
<b>Eye contact</b>	Remove any contact lenses and open eyelids wide apart. Rinse immediately with plenty of water. 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>Eye contact</b>	May cause temporary eye irritation.
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#### 4.3. Indication of any immediate medical attention and special treatment needed

<b>Notes for the doctor</b>	No specific recommendations. If in doubt, get medical attention promptly.
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### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

<b>Suitable extinguishing media</b>	Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.

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

<b>Specific hazards</b>	When heated and in case of fire, toxic vapours/gases may be formed. Combustible liquid.
<b>Hazardous combustion products</b>	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Oxides of the following substances: Carbon.

#### 5.3. Advice for firefighters

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**Special protective equipment for firefighters** Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

### SECTION 6: Accidental release measures

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

**Personal precautions** Wear protective clothing as described in Section 8 of this safety data sheet. Follow precautions for safe handling described in this safety data sheet.

#### 6.2. Environmental precautions

**Environmental precautions** Do not discharge into drains or watercourses or onto the ground. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.

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

**Methods for cleaning up** Stop leak if safe to do so. Absorb in vermiculite, dry sand or earth and place into containers. Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Avoid the spillage or runoff entering drains, sewers or watercourses.

#### 6.4. Reference to other sections

**Reference to other sections** Wear protective clothing as described in Section 8 of this safety data sheet. For waste disposal, see Section 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

**Usage precautions** Wear protective clothing as described in Section 8 of this safety data sheet. Follow precautions for safe handling described in this safety data sheet. Do not allow contact with air. Protect from moisture. Observe good chemical hygiene practices.

**Advice on general occupational hygiene** Wash at the end of each work shift and before eating, smoking and using the toilet. Remove contaminated clothing and wash the skin thoroughly with soap and water after work.

#### 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. Store away from the following materials: Strong acids. Strong oxidising agents. Store at temperatures between -30°C and 40°C.

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

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

### SECTION 8: Exposure controls/Personal protection

#### 8.1. Control parameters

**Ingredient comments** No exposure limits known for ingredient(s).

#### **BRUSH MAGIC (CAS: 4431-83-8)**

<b>Ingredient comments</b>	No exposure limits known for ingredient(s).
<b>DNEL</b>	Workers - Dermal; Long term systemic effects: 1.67 mg/kg/day Workers - Inhalation; Long term systemic effects: 11.75 mg/m <sup>3</sup> General population - Oral; Long term systemic effects: 0.83 mg/kg/day General population - Inhalation; Long term systemic effects: 2.9 mg/m <sup>3</sup> General population - Dermal; Long term systemic effects: 0.83 mg/kg/day

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### PNEC

- Fresh water; 62.54 mg/l
- marine water; 6.25 mg/l
- Sediment (Freshwater); 234.64 mg/kg/day
- Sediment (Marinewater); 23.46 mg/kg/day
- Soil; 0.543 mg/kg/day
- STP; 10 mg/l

### 8.2. Exposure controls

#### Protective equipment



#### Appropriate engineering controls

Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation or other engineering controls as the primary means to minimise worker exposure.

#### Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Tight-fitting safety glasses. Personal protective equipment for eye and face protection should comply with European Standard EN166.

#### Hand protection

The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. To protect hands from chemicals, gloves should comply with European Standard EN374.

#### Other skin and body protection

Wear appropriate clothing to prevent any possibility of skin contact.

#### Hygiene measures

Do not eat, drink or smoke when using this product. Wash at the end of each work shift and before eating, smoking and using the toilet. Remove contaminated clothing and protective equipment before entering eating areas. Eye wash facilities and emergency shower must be available when handling this product.

#### Respiratory protection

Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. If ventilation is inadequate, suitable respiratory protection must be worn. EN 136/140/141/145/143/149

### SECTION 9: Physical and chemical properties

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

Appearance	Clear liquid.
Colour	Colourless.
Odour	Solvent.
Odour threshold	No information available.
pH	No information available.
Melting point	-65°C
Initial boiling point and range	210°C
Flash point	88°C
Evaporation rate	17.38 (butyl acetate = 1)
Evaporation factor	No information available.

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<b>Flammability (solid, gas)</b>	No information available.
<b>Upper/lower flammability or explosive limits</b>	Lower flammable/explosive limit: 0.75 % Upper flammable/explosive limit: 38.2 %
<b>Other flammability</b>	No information available.
<b>Vapour pressure</b>	0.22 mbar @ 25°C
<b>Vapour density</b>	No information available.
<b>Relative density</b>	0.9921
<b>Bulk density</b>	No information available.
<b>Solubility(ies)</b>	Completely soluble in water.
<b>Partition coefficient</b>	log Kow: -0.69
<b>Auto-ignition temperature</b>	210°C
<b>Decomposition Temperature</b>	No information available.
<b>Viscosity</b>	1.532 mm <sup>2</sup> /s
<b>Explosive properties</b>	No information available.
<b>Explosive under the influence of a flame</b>	No information available.
<b>Oxidising properties</b>	No information available.

#### 9.2. Other information

<b>Refractive index</b>	No information available.
<b>Particle size</b>	No information available.
<b>Molecular weight</b>	164.2
<b>Volatility</b>	No information available.
<b>Saturation concentration</b>	No information available.
<b>Critical temperature</b>	No information available.
<b>Volatile organic compound</b>	No information available.

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

<b>Reactivity</b>	The following materials may react with the product: Strong acids. Strong oxidising agents.
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#### 10.2. Chemical stability

<b>Stability</b>	Stable at normal ambient temperatures and when used as recommended.
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#### 10.3. Possibility of hazardous reactions

<b>Possibility of hazardous reactions</b>	The following materials may react with the product: Strong acids. Strong oxidising agents.
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#### 10.4. Conditions to avoid

<b>Conditions to avoid</b>	Avoid excessive heat for prolonged periods of time.
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#### 10.5. Incompatible materials

<b>Materials to avoid</b>	Strong acids. Strong oxidising agents.
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### 10.6. Hazardous decomposition products

**Hazardous decomposition products** Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Oxides of the following substances: Carbon.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub>  
mg/kg) 5,000.0

Species Rat

#### Skin corrosion/irritation

Skin corrosion/irritation Not classified. OECD 431 OECD 404 OECD 439

#### Serious eye damage/irritation

Serious eye damage/irritation Slightly irritating. OECD 405

#### Respiratory sensitisation

Respiratory sensitisation Not classified.

#### Skin sensitisation

Skin sensitisation Not classified.

#### Germ cell mutagenicity

Genotoxicity - in vitro Not classified. OECD 471 OECD 476

#### Carcinogenicity

Carcinogenicity Not classified.

#### Reproductive toxicity

Reproductive toxicity - fertility Not classified.

#### Specific target organ toxicity - single exposure

STOT - single exposure Not classified.

#### Specific target organ toxicity - repeated exposure

STOT - repeated exposure Not classified.

#### Aspiration hazard

Aspiration hazard Not classified.

**Inhalation** Gas or vapour in high concentrations may irritate the respiratory system.

**Ingestion** May cause discomfort if swallowed.

**Skin contact** Liquid may irritate skin.

**Eye contact** Vapour or spray in the eyes may cause irritation and smarting.

### Toxicological information on ingredients.

#### BRUSH MAGIC

##### Acute toxicity - oral

Notes (oral LD<sub>50</sub>) LD<sub>50</sub> >5000 mg/kg, Oral, Rat

##### Acute toxicity - dermal

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**Notes (dermal LD<sub>50</sub>)** LD<sub>50</sub> >2000 mg/kg, Dermal, Rat

#### Skin corrosion/irritation

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

#### Serious eye damage/irritation

**Serious eye damage/irritation** May cause temporary eye irritation.

#### Respiratory sensitisation

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

#### Skin sensitisation

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

#### 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 - fertility** Based on available data the classification criteria are not met.

#### Specific target organ toxicity - single exposure

**STOT - single exposure** Based on available data the classification criteria are not met.

#### Specific target organ toxicity - repeated exposure

**STOT - repeated exposure** Based on available data the classification criteria are not met.

#### Aspiration hazard

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

**Inhalation** Gas or vapour in high concentrations may irritate the respiratory system.

**Ingestion** May cause discomfort if swallowed.

**Skin contact** Prolonged skin contact may cause temporary irritation.

**Eye contact** May cause temporary eye irritation.

### SECTION 12: Ecological information

**Ecotoxicity** The product is not expected to be hazardous to the environment. However, large or frequent spills may have hazardous effects on the environment.

#### Ecological information on ingredients.

#### **BRUSH MAGIC**

**Ecotoxicity** The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

#### 12.1. Toxicity

**Toxicity** Not considered toxic to fish.

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#### Ecological information on ingredients.

##### **BRUSH MAGIC**

#### **Toxicity**

##### **Acute aquatic toxicity**

Not considered toxic to fish.

##### **Acute toxicity - fish**

##### **Acute toxicity - aquatic invertebrates**

LC<sub>50</sub>, 96 hours: >100 mg/l, Fish

EC<sub>50</sub>, 48 hours: >100 mg/l, Daphnia magna

#### **12.2. Persistence and degradability**

**Persistence and degradability** There are no data on the degradability of this product.

#### Ecological information on ingredients.

##### **BRUSH MAGIC**

#### **Persistence and degradability**

The product is not readily biodegradable.

#### **Biodegradation**

- Degradation 4.3%: 28 days

#### **12.3. Bioaccumulative potential**

**Bioaccumulative potential** No data available on bioaccumulation.

**Partition coefficient** log Kow: -0.69

#### Ecological information on ingredients.

##### **BRUSH MAGIC**

**Bioaccumulative potential** No data available on bioaccumulation.

**Partition coefficient** log Kow: -0.69

#### **12.4. Mobility in soil**

**Mobility** The product is soluble in water.

#### Ecological information on ingredients.

##### **BRUSH MAGIC**

**Mobility** The product is soluble in water.

#### **12.5. Results of PBT and vPvB assessment**

**Results of PBT and vPvB assessment** This substance is not classified as PBT or vPvB according to current EU criteria.

#### Ecological information on ingredients.

##### **BRUSH MAGIC**

**Results of PBT and vPvB assessment** This substance is not classified as PBT or vPvB according to current EU criteria.

#### **12.6. Other adverse effects**

**Other adverse effects** Not available.

#### Ecological information on ingredients.

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Other adverse effects

None known.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

**General information**

Waste should be treated as controlled waste. Do not puncture or incinerate, even when empty.

**Disposal methods**

Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

### SECTION 14: Transport information

**General**

The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

#### 14.1. UN number

Not applicable.

#### 14.2. UN proper shipping name

Not applicable.

#### 14.3. Transport hazard class(es)

No transport warning sign required.

#### 14.4. Packing group

Not applicable.

#### 14.5. Environmental hazards

**Environmentally hazardous substance/marine pollutant**

No.

#### 14.6. Special precautions for user

Not applicable.

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

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78

and the IBC Code

### SECTION 15: Regulatory information

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

**EU legislation**

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

Commission Regulation (EU) No 2015/830 of 28 May 2015.

#### 15.2. Chemical safety assessment

A chemical safety assessment has been carried out.

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### Inventories

#### EU - EINECS/ELINCS

All the ingredients are listed or exempt.

#### Canada - DSL/NDSL

All the ingredients are listed or exempt.  
NDSL

#### US - TSCA

All the ingredients are listed or exempt.

### SECTION 16: Other information

#### Abbreviations and acronyms used in the safety data sheet

ATE: Acute Toxicity Estimate.  
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.  
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.  
CAS: Chemical Abstracts Service.  
DNEL: Derived No Effect Level.  
IATA: International Air Transport Association.  
IMDG: International Maritime Dangerous Goods.  
Kow: Octanol-water partition coefficient.  
LC<sub>50</sub>: Lethal Concentration to 50 % of a test population.  
LD<sub>50</sub>: Lethal Dose to 50% of a test population (Median Lethal Dose).  
PBT: Persistent, Bioaccumulative and Toxic substance.  
PNEC: Predicted No Effect Concentration.  
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.  
RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.  
vPvB: Very Persistent and Very Bioaccumulative.  
IARC: International Agency for Research on Cancer.  
MARPOL 73/78: International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978.  
cATpE: Converted Acute Toxicity Point Estimate.  
BCF: Bioconcentration Factor.  
BOD: Biochemical Oxygen Demand.  
EC<sub>50</sub>: 50% of maximal Effective Concentration.  
LOAEC: Lowest Observed Adverse Effect Concentration.  
LOAEL: Lowest Observed Adverse Effect Level.  
NOAEC: No Observed Adverse Effect Concentration.  
NOAEL: No Observed Adverse Effect Level.  
NOEC: No Observed Effect Concentration.  
LOEC: Lowest Observed Effect Concentration.  
DMEL: Derived Minimal Effect Level.  
EL50: Exposure Limit 50  
hPa: Hectopascal  
LL50: Lethal Loading fifty  
OECD: Organisation for Economic Co-operation and Development  
POW: Octanol-water partition coefficient  
SCBA: self-contained breathing apparatus  
STP: Sewage Treatment Plant  
VOC: Volatile Organic Compounds

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<b>Classification abbreviations and acronyms</b>	Acute Tox. = Acute toxicity Aquatic Acute = Hazardous to the aquatic environment (acute) Aquatic Chronic = Hazardous to the aquatic environment (chronic)
<b>Key literature references and sources for data</b>	Supplier's information.
<b>Revision comments</b>	NOTE: Lines within the margin indicate significant changes from the previous revision.
<b>Revision date</b>	18/07/2024
<b>Version number</b>	2.002
<b>Supersedes date</b>	26/07/2021
<b>SDS number</b>	13674
<b>SDS status</b>	Approved.

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