



# Brush & Bond Max

## Safety Data Sheet

according to US HazCom 2012  
Issue date: 15 November 2021 Revision date: 15 November 2021 Version: 1.0

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixture  
Trade name : Brush & Bond Max

#### 1.2. Recommended use and restrictions on use

Use of the substance/mixture : Dental practice activities

#### 1.3. Supplier

Parkell Inc.  
300 Executive Drive  
Edgewood, NY 11717  
T (631) 249-1134  
Info@parkell.com

#### 1.4. Emergency telephone number

Emergency number : INFOTRAC 1-352-323-3500 (International);INFOTRAC 1-800-535-5053 (North America)

### SECTION 2: Hazard(s) identification

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

##### GHS US classification

Flammable liquids Category 2	Highly flammable liquid and vapor
Skin corrosion/irritation Category 2	Causes skin irritation
Serious eye damage/eye irritation Category 1	Causes serious eye damage
Skin sensitization, Category 1	May cause an allergic skin reaction
Reproductive toxicity Category 1B	May damage fertility or the unborn child
Specific target organ toxicity — Single exposure, Category 3, Narcosis	May cause drowsiness or dizziness

#### 2.2. GHS Label elements, including precautionary statements

##### GHS US labeling

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Hazard pictograms (GHS US)



Signal word (GHS US)

: Danger

Hazard statements (GHS US)

: Highly flammable liquid and vapor  
Causes skin irritation  
May cause an allergic skin reaction  
Causes serious eye damage  
May cause drowsiness or dizziness  
May damage fertility or the unborn child

Precautionary statements (GHS US)

: Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
Keep container tightly closed.  
Avoid breathing spray, mist, vapors.  
Wash hands thoroughly after handling.

Contaminated work clothing must not be allowed out of the workplace.  
Wear eye protection, protective gloves, protective clothing.  
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
If inhaled: Remove person to fresh air and keep comfortable for breathing.  
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.  
Call a poison center or doctor if you feel unwell.  
If skin irritation or rash occurs: Get medical advice/attention.  
Take off contaminated clothing and wash it before reuse.  
In case of fire: Use alcohol resistant foam, Dry chemical, dry extinguishing powder, carbon dioxide (CO<sub>2</sub>) to extinguish.  
Store in a well-ventilated place. Keep cool.  
Store locked up.  
Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

### 2.3. Other hazards which do not result in classification

No additional information available

### 2.4. Unknown acute toxicity (GHS US)

Not applicable

## SECTION 3: Composition/Information on ingredients

### 3.1. Substances

Not applicable

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### 3.2. Mixtures

Name	Product identifier	%	GHS US classification
Acetone	CAS-No.: 67-64-1	30 – 50	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336
2-Propenoic acid, (2,4,6-trioxo-1,3,5-triazine-1,3,5(2H,4H,6H)-triyI)tri-2,1-ethanediyl ester	CAS-No.: 40220-08-4	15 – 40	Eye Dam. 1, H318 Skin Sens. 1, H317
2-[(2-Methyl-1-oxoallyl)oxy]ethyl 1,3-dihydro-1,3-dioxoisobenzofuran-5-carboxylate	CAS-No.: 70293-55-9	10 – 40	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317
2-hydroxyethyl methacrylate	CAS-No.: 868-77-9	0 – 20	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317
Bicyclo[2.2.1]heptane-2,3-dione, 1,7,7-trimethyl-, (+-)-	CAS-No.: 10373-78-1	0 – 10	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
Benzoic acid, 4-(dimethylamino)-, ethyl ester	CAS-No.: 10287-53-3	0 – 10	Repr. 1B, H360
Diphenyl-2,4,6-trimethylbenzoyl phosphine oxide	CAS-No.: 75980-60-8	0 – 10	Skin Sens. 1B, H317 Repr. 2, H361
P-HYDROXYANISOL	CAS-No.: 150-76-5	< 0.2	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 Skin Sens. 1, H317

\*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

## SECTION 4: First-aid measures

### 4.1. Description of first aid measures

- First-aid measures general : IF exposed or concerned: Get medical advice/attention. Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Allow affected person to breathe fresh air. Obtain medical attention if breathing difficulty persists.
- First-aid measures after skin contact : Rinse immediately with plenty of water for 15 minutes. Take off immediately all contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
- First-aid measures after eye contact : Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Continue to rinse eye with clean water for 20-30 minutes, retracting eyelids often. Call a physician immediately.
- First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Call a poison center/doctor/physician if you feel unwell.

### 4.2. Most important symptoms and effects (acute and delayed)

- Symptoms/effects : May damage fertility or the unborn child.
- Symptoms/effects after inhalation : May cause drowsiness or dizziness.
- Symptoms/effects after skin contact : Causes skin irritation. May cause an allergic skin reaction.
- Symptoms/effects after eye contact : Serious damage to eyes.

### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

according to US HazCom 2012

### SECTION 5: Fire-fighting measures

#### 5.1. Suitable (and unsuitable) extinguishing media

- Suitable extinguishing media : Alcohol resistant foam. dry chemical powder. dry extinguishing powder. Carbon dioxide.
- Unsuitable extinguishing media : Do not use a heavy water stream.

#### 5.2. Specific hazards arising from the chemical

- Fire hazard : Highly flammable liquid and vapor. On combustion forms: Carbon oxides (CO, CO<sub>2</sub>). Nitrogen oxides. Phosphorus oxides. Sulphur oxides.
- Explosion hazard : Heavier than air, vapors may travel long distances along ground, ignite and flash back to source.
- Hazardous decomposition products in case of fire : Toxic fumes may be released.

#### 5.3. Special protective equipment and precautions for fire-fighters

- Firefighting instructions : Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
- Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

### SECTION 6: Accidental release measures

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

- General measures : Ventilate area. Avoid contact with spilled material. Evacuate unnecessary personnel. Keep away from open flames, hot surfaces and sources of ignition. vapor could travel to source of ignition and flash back.

##### 6.1.1. For non-emergency personnel

- Protective equipment : Wear recommended personal protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
- Emergency procedures : No open flames, no sparks, and no smoking. Avoid breathing mist, spray, vapors. Avoid contact with skin, eyes and clothing.

##### 6.1.2. For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
- Emergency procedures : Stop leak, if possible without risk. Eliminate all ignition sources if safe to do so. Ventilate area. Prevent entry to sewers and public waters. Notify environmental authorities.

#### 6.2. Environmental precautions

Avoid release to the environment.

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

- |                         |   |  |
|-------------------------|---|--|
| For containment         | : | Collect spillage. Take up liquid spill into inert absorbent material.  |
| Methods for cleaning up | : | Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials. Notify authorities if product enters sewers or public waters. |
| Other information       | : | Dispose in a safe manner in accordance with local/national regulations.  |

### 6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For disposal of residues refer to section 13: "Disposal considerations".

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- |                               |   |   |
|-------------------------------|---|---|
| Precautions for safe handling | : | Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Provide good ventilation in process area to prevent formation of vapor. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge. Flammable vapors may accumulate in the container. Wear personal protective equipment. Avoid breathing mist, spray, vapors. Avoid contact with skin and eyes. |
| Hygiene measures              | : | Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Handle in accordance with good industrial hygiene and safety procedures.  |

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

- |                        |   |   |
|------------------------|---|---|
| Storage conditions     | : | Keep container tightly closed in a cool, well-ventilated place. Keep container closed when not in use. Store locked up. |
| Incompatible materials | : | Strong acids and oxidants. Reducing agents. Alkali.   |

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Brush & Bond Max

No additional information available

#### 2-Propenoic acid, (2,4,6-trioxo-1,3,5-triazine-1,3,5(2H,4H,6H)-triy)tri-2,1-ethanediyl ester (40220-08-4)

No additional information available

#### 2-[(2-Methyl-1-oxoallyl)oxy]ethyl 1,3-dihydro-1,3-dioxoisobenzofuran-5-carboxylate (70293-55-9)

No additional information available

#### 2-hydroxyethyl methacrylate (868-77-9)

No additional information available

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### Acetone (67-64-1)

#### USA - ACGIH - Occupational Exposure Limits

Local name	Acetone
ACGIH OEL TWA [ppm]	250 ppm
ACGIH OEL STEL [ppm]	500 ppm
Remark (ACGIH)	TLV® Basis: URT & eye irr; CNS impair. Notations: A4 (Not classifiable as a Human Carcinogen); BEI
ACGIH chemical category	Not Classifiable as a Human Carcinogen
Regulatory reference	ACGIH 2021

#### USA - ACGIH - Biological Exposure Indices

Local name	ACETONE
BEI (BLV)	25 mg/l Parameter: Acetone - Medium: urine - Sampling time: end of shift (nonspecific)
Regulatory reference	ACGIH 2021

#### USA - OSHA - Occupational Exposure Limits

Local name	Acetone
OSHA PEL (TWA) [1]	2400 mg/m <sup>3</sup>
OSHA PEL (TWA) [2]	1000 ppm
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1

#### USA - IDLH - Occupational Exposure Limits

IDLH [ppm]	2500 ppm (10% LEL)
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#### USA - NIOSH - Occupational Exposure Limits

NIOSH REL (TWA)	590 mg/m <sup>3</sup>
NIOSH REL TWA [ppm]	250 ppm

### Bicyclo[2.2.1]heptane-2,3-dione, 1,7,7-trimethyl-, (.+.-)- (10373-78-1)

No additional information available

### Diphenyl-2,4,6-trimethylbenzoyl phosphine oxide (75980-60-8)

No additional information available

### Benzoic acid, 4-(dimethylamino)-, ethyl ester (10287-53-3)

No additional information available

### P-HYDROXYANISOL (150-76-5)

#### USA - ACGIH - Occupational Exposure Limits

Local name	4-Methoxyphenol
ACGIH OEL TWA	5 mg/m <sup>3</sup>
Remark (ACGIH)	TLV® Basis: Eye irr; skin dam
Regulatory reference	ACGIH 2021

according to US HazCom 2012

### 8.2. Appropriate engineering controls

- Appropriate engineering controls : Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
- Environmental exposure controls : Avoid release to the environment.

### 8.3. Individual protection measures/Personal protective equipment

#### Hand protection:

Chemically resistant protective gloves. . Please follow the instructions related to the permeability and the penetration time provided by the manufacturer

#### Eye protection:

Chemical goggles or safety glasses.

#### Skin and body protection:

Long sleeved protective clothing

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

#### Other information:

Do not eat, drink or smoke during use.

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### SECTION 9: Physical and chemical properties

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

Physical state	: Liquid
Appearance	: Clear.
Color	: Colorless
Odor	: Characteristic
Odor threshold	: No data available
pH	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not applicable.
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

#### 9.2. Other information

No additional information available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Highly flammable liquid and vapor. Heavier than air, vapors may travel long distances along ground, ignite and flash back to source.

#### 10.2. Chemical stability

The product is stable at normal handling and storage conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.



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### 10.5. Incompatible materials

Strong acids and oxidants. Reducing agents. Alkali.

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Carbon oxides (CO, CO<sub>2</sub>). Nitrogen oxides. Phosphorus oxides. Sulphur oxides.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral)	:	Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal)	:	Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation)	:	Not classified (Based on available data, the classification criteria are not met)

### 2-[(2-Methyl-1-oxoallyl)oxy]ethyl 1,3-dihydro-1,3-dioxoisobenzofuran-5-carboxylate (70293-55-9)

LD50 oral rat	> 2 g/kg
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### Acetone (67-64-1)

LD50 oral rat	5800 mg/kg
LD50 dermal rabbit	> 15700 mg/kg
LC50 Inhalation - Rat	50100 mg/m <sup>3</sup> (Exposure time: 8 h)

### Diphenyl-2,4,6-trimethylbenzoyl phosphine oxide (75980-60-8)

LD50 dermal rat	> 2000 mg/kg
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### Benzoic acid, 4-(dimethylamino)-, ethyl ester (10287-53-3)

LD50 dermal rat	> 2000 mg/kg
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### P-HYDROXYANISOL (150-76-5)

ATE US (oral)	500 mg/kg body weight
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Skin corrosion/irritation	:	Causes skin irritation.
Serious eye damage/irritation	:	Causes serious eye damage.
Respiratory or skin sensitization	:	May cause an allergic skin reaction.
Germ cell mutagenicity	:	Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	:	Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity	:	May damage fertility or the unborn child.
STOT-single exposure	:	May cause drowsiness or dizziness.

### Acetone (67-64-1)

STOT-single exposure	May cause drowsiness or dizziness.
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### Bicyclo[2.2.1]heptane-2,3-dione, 1,7,7-trimethyl-, (.+.-)- (10373-78-1)

STOT-single exposure	May cause respiratory irritation.
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STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met)

Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)

Viscosity, kinematic : No data available

Symptoms/effects : May damage fertility or the unborn child.

Symptoms/effects after inhalation : May cause drowsiness or dizziness.

Symptoms/effects after skin contact : Causes skin irritation. May cause an allergic skin reaction.

Symptoms/effects after eye contact : Serious damage to eyes.

Other information : Likely routes of exposure: ingestion, inhalation, skin and eye.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : Toxic to aquatic life with long lasting effects.

### Acetone (67-64-1)

LC50 - Fish [1]	4.74 – 6.33 ml/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
EC50 - Crustacea [1]	10294 – 17704 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
LC50 - Fish [2]	6210 – 8120 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 - Crustacea [2]	12600 – 12700 mg/l (Exposure time: 48 h - Species: Daphnia magna)

### 12.2. Persistence and degradability

#### Brush & Bond Max

Persistence and degradability	Not established.
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### 12.3. Bioaccumulative potential

#### Brush & Bond Max

Bioaccumulative potential	Not established.
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### Acetone (67-64-1)

BCF - Fish [1]	0.69
Partition coefficient n-octanol/water (Log Pow)	-0.24

### 12.4. Mobility in soil

No additional information available

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### 12.5. Other adverse effects

Other information : Avoid release to the environment.

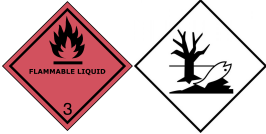
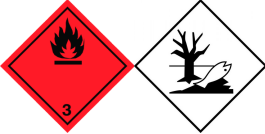


## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.  
Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.  
Additional information : Flammable vapors may accumulate in the container.  
Ecology - waste materials : Avoid release to the environment.

## SECTION 14: Transport information

In accordance with DOT / TDG / IMDG / IATA

DOT	TDG	IMDG	IATA
<b>14.1. UN number</b>			
1090	UN1090	1090	1090
<b>14.2. Proper Shipping Name</b>			
Acetone (MIXTURE)	ACETONE (MIXTURE)	ACETONE (MIXTURE)	Acetone (MIXTURE)
<b>14.3. Transport hazard class(es)</b>			
3	3	3	3
			
<b>14.4. Packing group</b>			
II	II	II	II
<b>14.5. Environmental hazards</b>			
Dangerous for the environment: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes	Dangerous for the environment: Yes

Consult the associated transport regulations for available and applicable exceptions or exemptions.

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

No additional information available

### 15.2. International regulations

#### CANADA

No additional information available

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### EU-Regulations

No additional information available

### National regulations

No additional information available

### 15.3. US State regulations

No additional information available

## SECTION 16: Other information

according to US HazCom 2012

Revision date	:	15 November 2021
Other information	:	None.

Safety Data Sheet (SDS), USA

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.