

# Safety Data Sheet according to WHS Regulations

Printing date 14.07.2022 Revision: 14.07.2022

#### 1 Identification

**Product Name: BLACK MAGIC** 

Other Means of Identification: Mixture

Product Code: BMG60

Recommended Use of the Chemical and Restriction on Use: Polyether tray adhesive

#### **Details of Manufacturer or Importer:**

Australian Dental Manufacturing

25 Billabong Street Kenmore Hills, QLD, 4069

Phone Number: 07 3878 1901

Emergency telephone number: National Poisons Information Centre: 13 11 26

### 2 Hazard(s) Identification

#### **Hazardous Nature:**

Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.

Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (7th edition).



Flammable Liquids 2 H225 Highly flammable liquid and vapour.



## Health hazard

Toxic To Reproduction 1A H360 May damage fertility or the unborn child.

STOT RE 1 H372 Causes damage to organs through prolonged or repeated exposure.

Aspiration Hazard 1 H304 May be fatal if swallowed and enters airways.



Skin Corrosion/Irritation 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

STOT SE 3 H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.

#### Signal Word Danger

#### **Hazard Statements**

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H360 May damage fertility or the unborn child.

H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness. H372 Causes damage to organs through prolonged or repeated exposure.

H304 May be fatal if swallowed and enters airways.

#### **Precautionary Statements**

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

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P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
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.
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P321	Specific treatment (see on this label).
P331	Do NOT induce vomiting.
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.
P312	Call a POISON CENTER/doctor if you feel unwell.
P314	Get medical advice/attention if you feel unwell.
P362+P364	Take off contaminated clothing and wash it before reuse.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P370+P378	In case of fire: Use CO2, powder or water spray 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.
P501	Dispose of contents/container in accordance with local/regional/national regulations.

## 3 Composition and Information on Ingredients

## **Chemical Characterization: Mixtures**

**Description:** Mixture of substances listed below with nonhazardous additions.

Hazardous Comp	nponents:			
CAS: 78-93-3	Methyl ethyl ketone	20-40%		
	♦ Flammable Liquids 2, H225; ♦ Eye Irrit. 2A, H319; STOT SE 3, H335-H336			
CAS: 108-88-3	Toluene	20-40%		
	Flammable Liquids 2, H225; Toxic To Reproduction 1A, H360; STOT RE 2, H373; Aspiration Hazard 1, H304; Skin Corrosion/Irritation 2, H315; STOT SE 3, H336			
CAS: 64742-49-0		20-40%		
	♦ STOT RE 1, H372; Aspiration Hazard 1, H304; ♦ Skin Corrosion/Irritation 2, H315; Eye Irrit. 2A, H319			
CAS: 67-64-1	Acetone	<8.0%		
	♦ Flammable Liquids 2, H225; ♦ Eye Irrit. 2A, H319; STOT SE 3, H336			

## **4 First Aid Measures**

#### Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if breathing problems develop.

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#### Skin Contact:

In case of skin contact, immediately remove contaminated clothing and wash affected areas with water and soap. Seek medical attention if irritation occurs.

#### **Eve Contact:**

In case of eye contact, rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 15 minutes. Seek medical attention.

#### Ingestion:

If swallowed, do not induce vomiting. Immediately rinse mouth with water. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Seek immediate medical attention.

#### Symptoms Caused by Exposure:

Inhalation: May cause respiratory irritation. May cause drowsiness or dizziness. May cause headache, nausea, anaesthetic effects, central nervous system depression, peripheral neuropathy (numbness in limbs). Prolonged exposure to vapours may cause loss of consciousness and death.

Skin Contact: Causes skin irritation.

Eye Contact: Causes serious eye irritation.

Ingestion: May be fatal if swallowed and enters airways. May cause gastrointestinal irritation, nausea, diarrhoea and vomiting.

## **5 Fire Fighting Measures**

Suitable Extinguishing Media: Carbon dioxide, sand and dry chemical powder. Do not use water spray or jet.

#### **Specific Hazards Arising from the Chemical:**

Hazardous combustion products include oxides of carbon.

Product is highly flammable. Vapours can travel considerable distances and flashback to its point of generation if it meets a source of ignition.

Containers close to fire should be removed only if safe to do so. Use water spray to cool fire exposed containers.

Minimise run-off from fire fighting entering drains or water courses.

HAZCHEM Code: •3YE

#### **Special Protective Equipment and Precautions for Fire Fighters:**

When fighting a major fire wear self-contained breathing apparatus and protective equipment.

#### 6 Accidental Release Measures

#### Personal Precautions, Protective Equipment and Emergency Procedures:

Wear approved respiratory protection, chemical resistant gloves, protective clothing and safety boots. Evacuate all non-essential personnel from affected area. Do not breathe vapours. Ensure adequate ventilation. Extinguish all sources of ignition. Avoid sparks and open flames. No smoking.

#### **Environmental Precautions:**

In the event of a major spill, prevent spillage from entering drains or water courses.

### Methods and Materials for Containment and Cleaning Up:

Stop leak if safe to do so and absorb spill with sand, earth, vermiculite or some other non-combustible absorbent material. Collect the spilled material and place into a suitable container for disposal. Ventilate the area of spill or leak. Water spray may be used to disperse vapours.

#### 7 Handling and Storage

### **Precautions for Safe Handling:**

Use of safe work practices are recommended to avoid eye or skin contact and inhalation of vapours. Use only outdoors or in a well-ventilated area.

Food, beverages and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other

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protective equipment before storage or re-use. Provide eyewash fountains and safety showers in close proximity to points of potential exposure.

#### **Conditions for Safe Storage:**

Store in a cool, dry and well ventilated area. Keep in original container tightly closed when not in use. Protect from direct sunlight, heat, sparks, open flames and other sources of ignition. Keep away from strong oxidising agents and acids. Store below 25 °C.

## **8 Exposure Controls and Personal Protection**

Expo	Exposure Standards:					
CAS:	78-93-3 Methyl ethyl ketone					
WES	STEL: 890 mg/m³, 300 ppm TWA: 445 mg/m³, 150 ppm					
CAS:	CAS: 108-88-3 Toluene					
WES	STEL: 574 mg/m³, 150 ppm TWA: 191 mg/m³, 50 ppm Sk					
CAS:	67-64-1 Acetone					
WES	STEL: 2375 mg/m³, 1000 ppm TWA: 1185 mg/m³, 500 ppm					

#### **Engineering Controls:**

Maintain air concentration below occupational exposure standards, providing adequate ventilation. Use explosion-proof ventilating equipment.

#### **Respiratory Protection:**

Use an approved vapour respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentrations of mist or vapour, inadequate ventilation, development of respiratory tract irritation) and engineering controls are not feasible. See Australian Standards AS/NZS 1715 and 1716 for more information.

#### **Skin Protection:**

Protective gloves. See Australian/New Zealand Standard AS/NZS 2161 for more information.

When selecting gloves for use against certain chemicals, the degradation resistance, permeation rate and permeation breakthrough time should be considered.

Occupational protective clothing (depending on conditions in which it has to be used, in particular as regards the period for which it is worn, which shall be determined on the basis of the seriousness of the risk, the frequency of exposure to the risk, the characteristics of the workstation of each worker and the performance of the protective clothing). See Australian/New Zealand Standard AS/NZS 4501 for more information.

#### **Eye and Face Protection:**

Eye and face protectors for protection against splashing materials or liquids. See Australian/New Zealand Standard AS/NZS 1337 for more information.

#### 9 Physical and Chemical Properties

Appearance:

Form: Liquid
Colour: Grey/black
Odour: Solvent-like

Odour Threshold:

pH-Value:

No information available

Flash Point: -17 °C

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Flammability: Highly flammable.

Auto-ignition Temperature: 225 °C (n-hexane)

Decomposition Temperature: No information available

**Explosion Limits:** 

Lower: 2 Vol %
Upper: 13 Vol %
Vapour Pressure at 15 °C: 22 hPa
Relative Density at 20 °C: <1

Vapour Density:No information availableEvaporation Rate:No information available

Solubility in Water: Miscible

Partition Coefficient (n-octanol/water): No information available

## 10 Stability and Reactivity

#### **Possibility of Hazardous Reactions:**

No dangerous reactions known under conditions of normal use. Toluene component may react violently with strong oxidising acids such as sulfuric and nitric acids.

Chemical Stability: Stable at ambient temperature and under normal conditions of storage and use.

Conditions to Avoid: Heat, sparks, open flames and other sources of ignition.

**Incompatible Materials:** Oxidising agents and strong acids. **Hazardous Decomposition Products:** Oxides of carbon.

### 11 Toxicological Information

## **Toxicity:**

LD50/LC5	0 Values:	
CAS: 78-9	3-3 Methy	rl ethyl ketone
Oral	LD50	3,300 mg/kg (rat)
	LD50	5,000 mg/kg (rabbit)
CAS: 108-	88-3 Tolu	ene
Oral	LD50	5,000 mg/kg (rat)
	LD50	12,124 mg/kg (rabbit)
Inhalation	LC50/4 h	5,320 mg/l (mouse)
CAS: 6474	12-49-0 Na	phtha (petroleum), hydrotreated light
Oral	LD50	4,820 mg/kg (rat)
	LD50	>1,900 mg/kg (rabbit)
Inhalation	LC50/4 h	>4.96 mg/l (rat)
CAS: 67-6	4-1 Aceto	ne
Oral	LD50	5,800 mg/kg (rat)
	LD50	>7,426 mg/kg (rabbit)
Inhalation	LC50/4 h	30,000 ppm (rat)

#### **Acute Health Effects**

#### Inhalation:

May cause respiratory irritation. May cause drowsiness or dizziness. May cause headache, nausea, anaesthetic effects, central nervous system depression, peripheral neuropathy (numbness in limbs). Prolonged exposure to vapours may cause loss of consciousness and death.

Skin: Causes skin irritation.

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Eve: Causes serious eye irritation.

Ingestion:

May be fatal if swallowed and enters airways. May cause gastrointestinal irritation, nausea, diarrhoea and vomiting.

Skin Corrosion / Irritation: Causes skin irritation.

Serious Eye Damage / Irritation: Causes serious eye irritation.

Respiratory or Skin Sensitisation: Based on classification principles, the classification criteria are not met.

Germ Cell Mutagenicity: Based on classification principles, the classification criteria are not met.

#### Carcinogenicity:

This product does NOT contain any IARC listed chemicals.

Toluene is classified by IARC as Group 3 - Not classifiable as to its carcinogenicity to humans.

**Reproductive Toxicity:** May damage fertility or the unborn child.

#### Specific Target Organ Toxicity (STOT) - Single Exposure:

May cause respiratory irritation. May cause drowsiness or dizziness.

#### Specific Target Organ Toxicity (STOT) - Repeated Exposure:

Causes damage to organs through prolonged or repeated exposure.

Aspiration Hazard: May be fatal if swallowed and enters airways.

#### **Chronic Health Effects:**

Repeated or prolonged skin exposure may cause de-fatting of the skin, dermatitis and possible sensitisation. Inhalation of very high vapour concentrations or prolonged exposure may cause CNS effects, kidney and liver damage. May cause arrhythmia (heart beat irregularity) and peripheral nervous system effects.

Existing Conditions Aggravated by Exposure: No information available

#### 12 Ecological Information

#### **Ecotoxicity:**

#### Aquatic toxicity:

The product is 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.

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CAS: 78-93-3 Methyl ethyl ketone					
EC50/48 h	308 mg/l (crustacea)				
EC50/72 h	1,972 mg/l (algae)				
LC50/96 h	2,993 mg/l (fish)				
CAS: 108-88-3 Toluene					
EC50/48 h	5.46-9.83 mg/l (daphnia magna)				
EC50/72 h	12.5 mg/l (pseudokirchneriella subcapitata)				
LC50/96 h	11-15 mg/l (bluegill)				
	12.6 mg/l (fathead minnow)				
	5.46-9.83 mg/l (guppy)				
	54 mg/l (oryzias latipes)				
	5.8 mg/l (rainbow trout)				
CAS: 67-64-1 Acetone					
EC50/48 h	12,600 mg/l (daphnia magna)				
LC50/96 h	4,740-6,330 mg/l (rainbow trout)				

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#### Persistence and Degradability:

The ingredients are completely biodegradable. No long-term persistent effects are expected.

Bioaccumulative Potential: Bioaccumulation is not expected to occur.

Mobility in Soil: No data available on finished product.

Other adverse effects: No further relevant information available.

## 13 Disposal Considerations

Disposal Methods and Containers: Dispose according to applicable local and state government regulations.

#### Special Precautions for Landfill or Incineration:

Please consult your state Land Waste Management Authority for more information.

## 14 Transport Information

**UN Number** 

ADG, IMDG, IATA UN1133

**Proper Shipping Name** 

ADG, IMDG, IATA ADHESIVES containing flammable liquid

**Dangerous Goods Class** 

ADG Class: 3

Packing Group:

ADG, IMDG, IATA

Marine pollutant: No

EMS Number: F-E,S-D
Hazchem Code: •3YE

Special Provisions:NoneExcepted quantities (EQ):E2Limited Quantities:5L

Packagings & IBCs - Packing Instruction: P001, IBC02

Packagings & IBCs - Special Packing Provisions: PP1
Portable Tanks & Bulk Containers - Instructions: T4

Portable Tanks & Bulk Containers - Special

**Provisions:** TP1, TP8

### 15 Regulatory Information

#### **Australian Inventory of Industrial Chemicals:**

All ingredients are listed.

### Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Poison Schedule:

Poisons Schedule: 5

#### 16 Other Information

Date of Preparation or Last Revision: 14.07.2022

Prepared by: MSDS.COM.AU Pty Ltd www.msds.com.au

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#### Abbreviations and acronyms:

ADG: Australian Dangerous Goods

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

IARC: International Agency for Research on Cancer

STEL: Short Term Exposure Limit TWA: Time Weighted Average

NES: National Exposure Standard (Safe Work Australia - Workplace Exposure Standards For Airborne Contaminants)

Flammable Liquids 2: Flammable liquids - Category 2

Skin Corrosion/Irritation 2: Skin corrosion/irritation - Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
Toxic To Reproduction 1A: Reproductive toxicity – Category 1A

STOT SE 3: Specific target organ toxicity (single exposure) - Category 3

STOT RE 1: Specific target organ toxicity (repeated exposure) - Category 1

STOT RE 2: Specific target organ toxicity (repeated exposure) - Category 2

Aspiration Hazard 1: Aspiration hazard - Category 1

#### Disclaimer

This SDS is prepared in accord with the Safe Work Australia document "Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals - July 2020"

The information contained in this safety data sheet is provided in good faith and is believed to be accurate at the date of issuance. Australian Dental Manufacturing makes no representation of the accuracy or comprehensiveness of the information and to the full extent allowed by law excludes all liability for any loss or damage related to the supply or use of the information in this material safety data sheet. MSDS.COM.AU Pty Ltd is not in a position to warrant the accuracy of the data herein. The user is cautioned to make their own determinations as to the suitability of the information provided to the particular circumstances in which the product is used.