

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).



Flame

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 CO ₂ , 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 Components:

CAS: 78-93-3	Methyl ethyl ketone ⚠ Flammable Liquids 2, H225; ⚠ Eye Irrit. 2A, H319; STOT SE 3, H335-H336	20-40%
CAS: 108-88-3	Toluene ⚠ 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	20-40%
CAS: 64742-49-0	Naphtha (petroleum), hydrotreated light ⚠ STOT RE 1, H372; Aspiration Hazard 1, H304; ⚠ Skin Corrosion/Irritation 2, H315; Eye Irrit. 2A, H319	20-40%
CAS: 67-64-1	Acetone ⚠ Flammable Liquids 2, H225; ⚠ Eye Irrit. 2A, H319; STOT SE 3, H336	<8.0%

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.

Eye 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

Exposure Standards:**CAS: 78-93-3 Methyl ethyl ketone**

WES	STEL: 890 mg/m ³ , 300 ppm TWA: 445 mg/m ³ , 150 ppm
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CAS: 108-88-3 Toluene

WES	STEL: 574 mg/m ³ , 150 ppm TWA: 191 mg/m ³ , 50 ppm Sk
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CAS: 67-64-1 Acetone

WES	STEL: 2375 mg/m ³ , 1000 ppm TWA: 1185 mg/m ³ , 500 ppm
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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:	No information available
pH-Value:	No information available
Melting point/freezing point:	No information available
Initial Boiling Point/Boiling Range:	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 available
Evaporation 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/LC50 Values:****CAS: 78-93-3 Methyl ethyl ketone**

Oral	LD50	3,300 mg/kg (rat)
	LD50	5,000 mg/kg (rabbit)

CAS: 108-88-3 Toluene

Oral	LD50	5,000 mg/kg (rat)
	LD50	12,124 mg/kg (rabbit)
Inhalation	LC50/4 h	5,320 mg/l (mouse)

CAS: 64742-49-0 Naphtha (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: 67-64-1 Acetone

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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Eye: 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.

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	II
Marine pollutant:	No
EMS Number:	F-E,S-D
Hazchem Code:	•3YE
Special Provisions: Excepted quantities (EQ):	None E2
Limited 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”

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