

Safety Data Sheet

according to WHS Regulations

Print date: 12.03.2024

Revision date: 12.03.2024

1 Identification

Product Name: Black Magic

Other Means of Identification: Mixture

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 2

H373 May cause damage to the nervous system through prolonged or repeated exposure. Route of exposure: Inhalation.

Aspiration Hazard 1

H304 May be fatal if swallowed and enters airways.



Environment

Aquatic Chronic 2

H411 Toxic to aquatic life with long lasting effects.



Skin Corrosion/Irritation 2 H315 Causes skin irritation.

Eye Irritation 2A

H319 Causes serious eye irritation.

Skin Sensitisation 1

H317 May cause an allergic skin reaction.

STOT SE 3

H336 May cause drowsiness or dizziness.

Aquatic Acute 2

H401 Toxic to aquatic life.

Signal Word Danger

Hazard Statements

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

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H360 May damage fertility or the unborn child.

H336 May cause drowsiness or dizziness.

H373 May cause damage to the nervous system through prolonged or repeated exposure. Route of exposure: Inhalation.

H304 May be fatal if swallowed and enters airways.

H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements

P201 Obtain special instructions before use.

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

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.

P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

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.

P333+P313 If skin irritation or rash 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 to extinguish.

P391 Collect spillage.

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/international regulations.

3 Composition and Information on Ingredients

Chemical Characterization: Mixtures**Description:** Mixture of substances listed below with nonhazardous additions.**Hazardous Components:**

CAS: 107-83-5	2-methylpentane	48-60%
	 Flammable Liquids 2, H225;  Aspiration Hazard 1, H304;  Aquatic Chronic 2, H411;  Skin Corrosion/Irritation 2, H315; STOT SE 3, H336	
CAS: 108-88-3	Toluene	48-60%
	 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	

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CAS: 78-93-3	Methyl ethyl ketone ⚠ Flammable Liquids 2, H225; ⚠ Eye Irritation 2A, H319; STOT SE 3, H335-H336	<20%
CAS: 67-64-1	Acetone ⚠ Flammable Liquids 2, H225; ⚠ Eye Irritation 2A, H319; STOT SE 3, H336	<10%
CAS: 1314-13-2	Zinc oxide ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	<10%
CAS: 8050-09-7	Rosin ⚠ Skin Sensitisation 1, H317	<10%

4 First Aid Measures

Inhalation: If inhaled, remove to fresh air. Seek medical attention if breathing problems develop.

Skin Contact:

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

Eye Contact:

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

Ingestion:

If swallowed, do not induce vomiting. Immediately rinse mouth with water. Never give anything by mouth to an unconscious person. Seek immediate medical attention.

Symptoms Caused by Exposure:

Inhalation: May cause respiratory irritation. May cause drowsiness or dizziness. May cause damage to the nervous system through prolonged or repeated exposure. May cause headache, nausea, anaesthetic effects, central nervous system depression, peripheral neuropathy (numbness in limbs).

Skin Contact: Causes skin irritation. May cause an allergic skin reaction.

Eye Contact: Causes serious eye irritation.

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

5 Fire Fighting Measures

Suitable Extinguishing Media: Use alcohol-resistant foam or dry chemical. Do not use a solid water stream.

Specific Hazards Arising from the Chemical:

Hazardous combustion products include oxides of carbon, oxides of nitrogen, smoke and other toxic fumes. 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.

Prevent 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.

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Inform respective authorities in case of seepage into water course or sewage system.

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 absorbent material.

Collect the spilled material and place into a suitable container for disposal. Use only non-sparking tools.

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 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 container tightly closed when not in use. Protect from heat, sparks, open flames and other sources of ignition. Store at temperatures below 25 °C. Do not weld, cut or drill on full or empty containers. Handling equipment must be grounded to prevent sparking. In areas where explosion hazard exists workers should be required to wear non-sparking boots. Keep away from oxidising agents.

8 Exposure Controls and Personal Protection

Exposure Standards:**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: 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: 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:

Ensure adequate ventilation of the working area, keeping airborne concentrations below occupational exposure standards.

Respiratory Protection:

Use an approved vapour respirator (Filter type A) 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:

Chemical-resistant 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.

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Eye and Face Protection:

Safety glasses with top and side shields or goggles. See Australian/New Zealand Standards AS/NZS 1336 and 1337 for more information.

9 Physical and Chemical Properties

Appearance:

Form:	Liquid
Colour:	Red
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:	55-56 °C
Flash Point:	<0 °C
Flammability (solid, gas):	Not applicable
Auto-ignition Temperature:	No information available
Decomposition Temperature:	No information available
Explosion Limits:	
Lower:	No information available
Upper:	No information available
Vapour Pressure at 20 °C:	>1 (Air = 1)
Relative Density at 20 °C:	0.8
Vapour Density:	No information available
Evaporation Rate:	No information available
Solubility in Water:	Insoluble
Partition Coefficient (n-octanol/water):	No information available
Viscosity:	No information available

10 Stability and Reactivity

Possibility of Hazardous Reactions: No dangerous reactions known under conditions of normal use.

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. Storage at temperatures above 25 °C.

Incompatible Materials: Oxidising agents.

Hazardous Decomposition Products: Oxides of carbon, oxides of nitrogen, smoke and other toxic fumes.

11 Toxicological Information

Toxicity:**LD50/LC50 Values:****CAS: 108-88-3 Toluene**

Oral	LD50	5,580 mg/kg (Rattus norvegicus (rat))
Dermal	LD50	5,000 mg/kg (Oryctolagus cuniculus (rabbit))
Inhalation	LC50/4 h	25.7-30 mg/l (Rattus norvegicus (rat))

CAS: 78-93-3 Methyl ethyl ketone

Oral	LD50	2,193 mg/kg (Rattus norvegicus (rat))
Dermal	LD50	6,480 mg/kg (Oryctolagus cuniculus (rabbit))
Inhalation	LC50/4 h	32 mg/l (microorganisms)

CAS: 67-64-1 Acetone

Oral	LD50	5,800 mg/kg (Rattus norvegicus (rat))
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Inhalation	LD50	>7,426 mg/kg (<i>Oryctolagus cuniculus</i> (rabbit))
	LC50/4 h	30,000 ppm (<i>Rattus norvegicus</i> (rat))
CAS: 1314-13-2 Zinc oxide		
Oral	LD50	>5,000 mg/kg (<i>Rattus norvegicus</i> (rat))
Inhalation	LC50/4 h	>5.7 mg/l (<i>Rattus norvegicus</i> (rat))

Acute Health Effects**Inhalation:**

May cause respiratory irritation. May cause drowsiness or dizziness. May cause damage to the nervous system through prolonged or repeated exposure. May cause headache, nausea, anaesthetic effects, central nervous system depression, peripheral neuropathy (numbness in limbs).

Skin: Causes skin irritation. May cause an allergic skin reaction.

Eye: Causes serious eye irritation.

Ingestion:

May be fatal if swallowed and enters airways. May cause drowsiness or dizziness. 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: May cause an allergic skin reaction.

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

Carcinogenicity:

Based on classification principles, the classification criteria are not met.

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 drowsiness and dizziness.

Specific Target Organ Toxicity (STOT) - Repeated Exposure:

May cause damage to the nervous system through prolonged or repeated exposure. Route of exposure: Inhalation.

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

Chronic Health Effects: No data associated with long term health effects.

Existing Conditions Aggravated by Exposure: No data available.

12 Ecological Information

Ecotoxicity:**Aquatic toxicity:**

Toxic to aquatic life with long lasting effects.

CAS: 108-88-3 Toluene

EC50/48 h	5.46-9.83 mg/l (<i>Daphnia magna</i> (water flea))
EC50/72 h	12.5 mg/l (<i>Pseudokirchneriella subcapitata</i> (algae))
LC50/96 h	11-15 mg/l (<i>Lepomis macrochirus</i> (bluegill))
	12.6 mg/l (<i>Pimephales promelas</i> (fathead minnow))
	5.46-9.83 mg/l (<i>Poecilia reticulata</i> (guppy))
	54 mg/l (<i>Oryzias latipes</i> (Japanese rice fish))
	5.8 mg/l (<i>Oncorhynchus mykiss</i> (rainbow trout))

CAS: 78-93-3 Methyl ethyl ketone

EC50/48 h	308 mg/l (<i>Daphnia magna</i> (water flea)) (OECD Test Guideline 202)
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LC50/96 h	2,993 mg/l (Pimephales promelas (fathead minnow)) (OECD Test Guideline 203)
CAS: 67-64-1 Acetone	
EC50/48 h	12,600 mg/l (Daphnia magna (water flea))
LC50/96 h	4,740-6,330 mg/l (Oncorhynchus mykiss (rainbow trout))
CAS: 1314-13-2 Zinc oxide	
EC50/48 h	6.9-16.2 mg/l (Daphnia magna (water flea))
EC50/72 h	0.136 mg/l (Selenastrum capricornutum (green algae))
LC50/96 h	2,246 mg/l (Pimephales promelas (fathead minnow))
	0.33-0.78 mg/l (Oncorhynchus mykiss (rainbow trout))

Persistence and Degradability: No data available on finished product.**Bioaccumulative Potential:** No data available on finished product.**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, MARINE POLLUTANT

Dangerous Goods Class
ADG Class: 3

Packing Group:
ADG, IMDG, IATA II

Marine pollutant: Yes

EMS Number: F-E,S-D

Hazchem Code: •3YE

Excepted quantities (EQ): E2

Limited Quantities: 5 L

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: 12.03.2024**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 Irritation 2A: Serious eye damage/eye irritation – Category 2A
Skin Sensitisation 1: Skin sensitisation, Hazard Category 1
Toxic To Reproduction 1A: Reproductive toxicity – Category 1A
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
Aspiration Hazard 1: Aspiration hazard – Category 1
Aquatic Acute 1: Hazardous to the aquatic environment, short-term (Acute). Category 1
Aquatic Acute 2: Hazardous to the aquatic environment, short-term (Acute). Category 2
Aquatic Chronic 1: Hazardous to the aquatic environment, long-term (Chronic). Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment, long-term (Chronic). Category 2

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.