Microguard
antimicrobial surface protection 24/7

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Safety Data Sheet

Date of Compilation: 01/06/2022	Version: 1	Revision date: Not applicable

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

1.1	Product name	MG-M Anti-Mould Spray (Amic)
	Chemical Name	Not applicable
	Other / Shipping Names	Not applicable
	CAS No.	Not applicable
	EC No.	Not applicable
	REACH Registration No.	Not applicable
1.2	Recommended use	
	Manufacturer	HealthGuard Corporation Pty. Ltd.
	ABN:	30 082 752 378
	Street Address	7 Leader Street, CAMPBELLFIELD, VIC. 3061 Australia
	Telephone	+61 (0) 3 9308 6888
	Facsimile	+61 (0) 3 9308 6777
	Website	www.healthguard.asia
	Email	enquiries@healthguard.asia
	Emergency Telephone Number	+61 (0) 418 354 270 **Managing Director
		Poisons information 131126 (Australia)

2. HAZARD IDENTIFICATION

HAZARDOUS CLASSIFICATION

2.1	Classification of the substance/mixture	Classification according to UN GHS and Regulation (EC) No. 1272/2008 (CLP)
2.2	Label elements	Labelling according to UN GHS and Regulation (EC) No. 1272/2008 (CLP)

Serious Eye Damage Category 1

Skin Corrosion/Irritation Category 2

HAZARDOUS CATEGORY

DANGER

WARNING

HAZARDOUS STATEMENTS		PRECAUTIONARY STATEMENTS (PREVENTION)	
H315	Causes skin irritation.	P264	Wash hands/face thoroughly after handling.
H318	Causes serious eye damage.	P280	Wear protective gloves/clothing/eye/face protection.
H402	Harmful to aquatic life.	P273	Avoid release to the environment.

PRECAUTIONARY STATEMENTS (RESPONSE)

P302+P352	IF ON SKIN: wash with plenty of water and soap.
P332 + 317	If skin irritation occurs: Get medical help.
P305+354+338+317	IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical help .
P362+364	Take off contaminated clothing and wash it before reuse.
P391	Collect spillage.

3. COMPOSITION / INFORMATION ON INGREDIENTS

MG-M Anti-Mould Spray (Amic) is proprietary mixture of the following ingredients

CHEMICAL ENTITY	CAS NUMBER	HAZARDOUS STATEMENTS	PROPORTION
Quaternary ammonium compounds, benzyl (C12-C16) alkyldimethyl, chlorides	CAS No. 68424-85-1 EC No. 270-325-2 Index No. Not Available Reach No. Not Available	Acute Toxicity 3 H301 Serious Eye Damage 1 H318 Skin Corrosion 1B Aquatic Acute 1 H400 Aquatic Chronic 1 H410	10 - <30%
ALL other ingredients are classified as NON-HAZARDOUS according to the criteria of Safe Work Australia and Regulation (EC) No. 1272/2008.			Up to 100 %
This material is NOT listed on the Australian Inventory of Chemical Substances (AICS).			

4. FIRST AID MEASURES

4.1 Description of First Aid measures

If poisoning occurs, contact a doctor or Poisons Information Centre. Australia on 13 11 26 – or – New Zealand on 0800 764 766

General Advice	Remove from source of exposure to fresh air, remove contaminated clothing. Consult Doctor if required and provide this Safety Data Sheet. An Eyebath, Safety Shower and First Aid Kit and Personal Protective Equipment should be made available in the workplace.
Ingestion	If conscious, immediately rinse mouth with water and give water to drink. **DO NOT** give liquids to an unconscious person. If victim feels unwell contact a doctor or poisons information centre on number **13 11 26 *Australia**
Skin Contact	Remove contaminated clothing and wash skin with plenty of soap and water. If irritation or inflammation occurs get medical help. Wash contaminated clothing before re-use.
Eye Contact	Immediately irrigate with large amounts of water including under the eyelids. If irritation or inflammation occurs continue rinsing and **Get Medical Help.**
Inhalation	Remove victim from exposure-avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume comfortable position and keep warm. If breathing has stopped apply artificial respiration at once and **Get Medical Help.** If victim feels unwell upon recovery contact a doctor.

4.2 Most important symptoms and effects both acute and delayed.

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet, and the Product Label. **Symptoms that may arise if the product is mishandled are: -

Inhalation	The material is not thought to produce respiratory irritation. However inhalation of vapours during high temperatures for prolonged periods may produce drowsiness and dizziness with lack of co-ordination.
Skin Contact	Contact with the skin may result in irritation and mild inflammation. Prolonged exposure may result in contact dermatitis characterised by skin redness and swelling.
Eye Contact	May cause severe eye irritation/inflammation damage and pain with possible corneal injury.
Ingestion	Accidental ingestion of the product may result in irritation and possible corrosion within the mouth and the gastro intestinal tract. Symptoms may include burning sensation and suppression of the central nervous system and accompanying drowsiness.

4.3 Indication of any immediate medical attention and special treatment needed. Advice to Doctor

None indicated. Treatment should be directed towards symptoms and condition of the patient. Treat symptomatically.

First Aid Facilities

An Eyebath, Safety Shower and First Aid Kit and Personal Protective Equipment should be made available in the workplace.

5. FIRE-FIGHTING MEASURES

5.1	Suitable extinguishing media	Use extinguishing media appropriate for surrounding fire. Water spray, Foam, Carbon Dioxide and Dry Powder Chemicals. Do not wash into drains.
5.2	Specific hazards arising from substance or mixture	Smoke from fire may contain toxic substances such as carbon monoxide. Heating can cause expansion and possible violent rupture of containers. If safe to do so remove containers from path of fire.
5.3	Advice to fire-fighters	Fire fighters to wear self contained breathing apparatus and full protective clothing when fighting fire if a risk of exposure to vapour of products or combustion exists
	Hazchem Code	3Z

6. ACCIDENTAL RELEASE MEASURES

Goggles/Face Shield; Chemical Resistant Overalls; Chemical Resistant Work boots; Gloves should be worn

6.1	Personal precautions, protective equipment and emergency procedures	Slippery when spilt. Avoid accidents, clean up spill immediately. **DO NOT** touch or walk through spilt material. Remove unnecessary personnel and ignition sources. Attempt to contain spill. **DO NOT** allow product to enter drains or sewers. Wear PPE Goggles/Face Shield; Chemical Resistant Overalls; Chemical Resistant Work boots and Gloves. Contact Emergency Services and Environmental Protection Authority if spill cannot be contained.
6.2	Environmental precautions	Prevent from entering the environment especially drains and waterways.
6.3	Methods and materials for containment and cleaning up	Contain-prevent runoff into drains and waterways. Use absorbent material (sand, soil or other inert material) to soak up spill and remove to an appropriately labelled container for disposal. Minor spills can be cleaned using absorbent material or water. **DO NOT** allow wastewater to enter sewers or drains.
6.4	Reference to other sections	For disposal see section 13.

7. HANDLING AND STORAGE

7.1	Precautions for safe handling	Material is considered HAZARDOUS avoid contact with raw material. Where exposure to raw material exists use PPE *(See Section 8: Exposure Controls / Personal Protective Equipment)*. Use only in well ventilated areas. **DO NOT** eat, drink or smoke when using the product. Wash hands after use and before eating. Remove PPE and contaminated clothing after use and before eating. Wash all PPE after use and before storing.
7.2	Conditions for safe storage	Store in chemical resistant plastic containers in a cool dry well ventilated place away from direct sunlight. Keep containers closed when not in use. Protect from physical damage. Do not store in metal receptacles. Do not store with oxidising agents or flammable liquids.
7.3	Specific end uses	Textile processing

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

The following materials had no OEL's on our records:

Quaternary ammonium compounds CAS No. 68424-85-1

8.2	Exposure controls	Only use in well ventilated area, natural ventilation should be sufficient at room temperature.
8.2.1	Engineering controls	Use mechanical handling and engineering controls to reduce contact where possible.
8.2.2	Personal Protective Equipment (PPE)	Avoid contact. Use good industrial hygiene and safety practice.
	Eye and face protection	Safety glasses with side shield, goggles or face shield.
	Skin protection	Chemically resistant overalls and boots and gloves.
	Respiratory protection	If airborne concentrations are high or unknown or the risk of inhalation of spray or mists exists wear a combined Organic Particulate Filter.
	Other Information	Selection of protective equipment should be in accordance with the relevant regulation or standards.




9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Form / Colour / Odour	Clear yellow liquid / Fruity odour.
pH	Approx 6.0
Melting Point/ Freezing point	No data.
Boiling Point	> 200°C.
Flash point	Approx. 227°C.
Evaporation Rate	No data available.
Vapour Pressure	No data available.
Vapour Density	No data available.
Relative Density (Specific Gravity)	Approx 1.1
Solubility	Soluble.
S Partition coefficient n-octanol/water	No data available.
Auto Ignition	No data available.
Decomposition Temperature	No data available.

	Viscosity	Approx 105-120 mPa.s @ 20°C estimate
	Explosive Properties	No data available.
	Oxidising Properties	No data available.
9.2	Other information	None.

10. STABILITY AND REACTIVITY

10.1	Reactivity	No dangerous reactions known under normal use.
10.2	Chemical stability	Stable under normal conditions of use.
10.3	Possibility of hazardous reactions	No Data.
10.4	Conditions to avoid	Excessive heat and cold. Direct sunlight for prolonged periods.
10.5	Incompatible materials	Strong Acids. Strong Bases and Oxidizing agents.
10.6	Hazardous decomposition products	Excessive temperature or burning may result in decomposition products including but not limited Carbon monoxide.

11. TOXICOLOGY INFORMATION

11.1 Information on toxic effects

Acute toxicity	LD50 Rat >2000 mg/kg (OECD 401) ATE Dermal >2000mg/kg (based on Rat data)
Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/irritation	Causes serious eye damage
Respiratory or skin sensitisation	No data available.
Germ cell mutagenicity	No data available.
Carcinogenicity	No data available.
Reproductive toxicity	No data available.
Specific Target Organ Toxicity (STOT)—single exposure	No data available.
Specific Target Organ Toxicity (STOT)—repeated exposure	No data available.
Aspiration hazard	No data available.

Information on hazardous ingredients

Quaternary ammonium compounds

Acute toxicity	Oral LD50 (Rat): 795mg/kg ATE Dermal (Rat): > 5000mg/kg
Skin corrosion/irritation	Causes severe skin burns.
Serious eye damage/irritation	Causes serious eye damage.
Respiratory or skin sensitisation	Based on available data, the classification criteria are not met.
Germ cell mutagenicity	Based on available data, the classification criteria are not met.
Carcinogenicity	Based on available data, the classification criteria are not met.
Reproductive toxicity	Based on available data, the classification criteria are not met.
Specific Target Organ Toxicity (STOT)—single exposure	Based on available data, the classification criteria are not met.
Specific Target Organ Toxicity (STOT)—repeated exposure	Based on available data, the classification criteria are not met.
Aspiration hazard	Based on available data, the classification criteria are not met.

12. ECOLOGICAL INFORMATION

12.1	Toxicity	Harmful to aquatic life.
12.2	Persistence and degradability	No data available.
12.3	Bioaccumulative potential	No data available.
12.4	Mobility in soil	No data available.
12.5	Results of PBT and vPvB assessment	No data available.
12.6	Endocrine disrupting properties	No data available.
12.7	Other adverse effects	No data available.

ECOLOGICAL INFORMATION (INGREDIENTS)

Quaternary ammonium compounds

Toxicity	LC50/96h (Static) 0.85mg/l (Rainbow trout) (OECD 203) Toxicity on activated sludge EC20 0.5h 0.5 mg/l (OECD 209)
Persistence and degradability	OECD 301 D Closed-Bottle-Test >60 %. Rapidly Biodegradable
Bioaccumulative potential	OECD 107 LogKow (Shake Flask Method) 2.88. Very low potential for bioaccumulation
Mobility in soil	No data available
Results of PBT and vPvB assessment	This mixture does not contain substances that meet the PBT or vPvB criteria of REACH, annex XIII.
Other adverse effects	No data available
Additional Information	Do not allow product to enter waterways.

13. DISPOSAL CONSIDERATIONS

13.1	**Waste treatment methods**	This product, when being disposed of in its unused and uncontaminated state should be treated as a hazardous waste according to EC Directive 2008/98/EC. Any disposal practices must be in compliance with all national and provincial laws and any municipal or local by-laws governing hazardous waste. For used, contaminated and residual materials, additional evaluations may be required. Do not dump into any sewers, on the ground, or into any body of water.

14. TRANSPORT INFORMATION

14.1	**UN number or ID number**	Not applicable
14.2	**UN Proper Shipping Name**	Not applicable
14.3	**Transport Hazard Class**	Not applicable
14.4	**Packing Group**	Not applicable
14.5	**Environmental Hazard**	Not applicable
14.6	**Special Precautions for User**	Do not store with Oxidizing Agents.
14.7	**Maritime transport in bulk**	Not applicable.

15. REGULATORY INFORMATION

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

HAZARDOUS according to the criteria of Safe Work Australia, UN GHS and Regulation (EC) No. 1272/2008.

Poisons Schedule (Australia) Not applicable.

16. OTHER INFORMATION

LEGEND OF ABBREVIATIONS

ACGIH	American Conference of Government Industrial Hygienists	**IOELV**	Indicative Occupational Exposure Limit Value
ADNR	Regulation for the carriage of Dangerous Substances on the Rhine	**ISO**	International Organization for Standardization
ADR	Agreement on Dangerous Goods by Road	**LD50**	Lethal Dose
APVMA	Australian Pesticides & Veterinary Medicines Authority	**LC50**	Lethal Concentration
ATE	Acute Toxicity Estimate	**LL50**	Median lethal loading
CAS No	Chemical Abstract Service Number	**MARPOL**	International Convention for the Prevention of Pollution from Ships
CLP	Classification, Labelling & Packaging	**mPa s**	Milipascal second
Dow IHG	Dow Industrial Hygiene Guidelines	**NOS**	Not Otherwise Specified
EC	European Community	**OEL**	Occupational Exposure Limit
EC50	Half maximal effective concentration	**OECD**	Organisation for Economic Co-Operation and Development
EINECS	European Inventory of Existing Chemical Substances	**ppm**	Parts per million
EL50	Median effective loading	**PBT vPvB**	Persistent Bioaccumulative and Toxic very Persistent Very Bioaccumulative
HGC	HealthGuard Corporation Pty. Ltd	**PPE**	Personal Protective Equipment

IATA	International Air Transport Association	**RID**	Regulations Concerning the International Carriage of Dangerous Goods by Rail
IBC	International code for the construction and equipment of ships carrying Dangerous Chemicals in Bulk	**SDS**	Safety Data Sheet
ICAO	International Civil Aviation Organisation	**SUSDP**	Standard for the Uniform Scheduling of Drugs and Poisons *(Australia only)*
IC50	Half maximum inhibitory concentration	**UN GHS**	United Nations Globally Harmonized System of Classification and Labelling of Chemicals
IMDG	International Maritime Dangerous Goods		

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Reason for Update	New Format

Safety Data Sheets (SDS) are updated frequently, please ensure that you have a current copy.