

# **Safety Data Sheet**

# SECTION 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product identifier MULTI-GARD GP 22 AU BASE (Part A)

VariantsLight GreyProduct code(s)Q7003BProper shipping namePAINT

**Recommended use** Part A of a two component epoxy system.

Consult SDS for the Converter (Part B) prior to use.

For industrial use only.

Manufacture / Importer details Resene Paints (Australia) Limited.

7 Production Avenue,

Molendinar. Queensland. 4214.

**Emergency phone numbers** Available Monday – Friday, 8:00 a.m. – 5:00 p.m.

 Free call
 1800 738 383

 Phone
 07 5512 6600

 Fax
 07 5512 6697

**Poisons Information Centre** 131126 [available 24 hours]

# SECTION 2. HAZARDS IDENTIFICATION

### Classification of the hazardous chemical or mixture according to the criteria of Safe Work Australia

**GHS Classification:** Flammable Liquids Category 2, Serious Eye Damage/Irritation Category 1, Specific Target

Organ Toxicity (Single Exposure) Category 3, Carcinogenicity Category 2.

Label elements









Flame Exclamation Mark Corrosion Health Hazard

Signal word DANGER

# **Hazard statements**

H225 Highly flammable liquid and vapour.

H318 Causes serious eye damage.

H335 May cause respiratory irritation.

H351 Suspected of causing cancer.

AUH066 Repeated exposure may cause skin dryness or cracking.

# **Precautionary statements: Prevention**

P210 Keep away from heat, sparks, open flames, hot surfaces. - No smoking.

P233 Keep container tightly closed.

P240 Ground/Bond container and receiving equipment.

P241 Use explosion-proof electrical, ventilating and lighting equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P280 + P281 Wear protective gloves, eye protection/face protection and other personal protection as

P261 Avoid breathing fumes, mist, vapours, spray or sanding dust.

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

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P201 Obtain special instructions before use.

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

### **Precautionary statements: Response**

P370 + P378 In case of fire: Use CO<sub>2</sub>, dry chemical or foam for extinction.

P308 + P313 IF exposed or concerned: Get medical advice/attention.

 $P303 + P361 + P353 \quad IF \ ON \ SKIN \ (or \ Hair): Remove/Take \ off \ immediately \ all \ contaminated \ clothing. \ Rinse \ skin \ P303 + P300 +$ 

with water/shower.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/physician.

P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for

breathing.

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

### **Precautionary statements: Storage**

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

P233 Keep container tightly closed.

### **Precautionary statements: Disposal**

P501 Dispose of contents/container in accordance with local Regulations.

# SECTION 3. COMPOSITION AND INFORMATION ON INGREDIENTS

Ingredients	Name	CAS	% [weight]
	Solid: Reaction product: Bisphenol-A-(epichlorhydrin)	25068-38-6	10 - < 30
	Methyl isobutyl ketone	108-10-1	10 - < 30
	n-Butanol	71-36-3	< 10
	Xylene	1330-20-7	< 2
	Ingredients not contributing to the classification	Various	30 - 60

# SECTION 4. FIRST AID MEASURES

# Description of necessary first aid measures

**Ingestion** Rinse mouth with plenty of water then provide liquid slowly and as much as the person

can comfortably drink.

If swallowed DO NOT induce vomiting. If vomiting occurs, place person on their left

side, tilt head back to maintain open airway and to prevent aspiration.

Observe patient and seek medical advice.

**Eye contact** Immediately flush eyes with fresh water. Continue rinsing for several minutes. Ensure

complete irrigation of the eye by holding the eyelids apart and away from the eye. Seek medical attention if pain persists or recurs. Removal of contact lenses after an eye injury

should only be undertaken by skilled personnel.

**Skin contact** Immediately flush skin with plenty of water while removing contaminated clothing and

shoes. Wash skin with soap if available. Seek medical attention if irritation persists or if

a rash develops.

**Inhalation** Remove the person from the contaminated area and into fresh air. Allow them to rest

and observe. Seek medical attention if breathing is difficult. Seek medical advice if

symptoms persist.

**First Aid facilities** Safety shower and eye wash facilities.

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Symptoms caused by

exposure

Contact with skin or eyes causes irritation. Prolonged or repeated skin contact with the liquid may cause defatting of the skin which may lead to dermatitis. Vapour may cause severe eye irritation. Inhalation of vapour or mists may cause irritation to the respiratory

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tract.

Medical attention and special treatment

Basic life support. Treat symptomatically. Watch for signs of respiratory insufficiency and assist ventilation as necessary in the event of an allergic reaction.

#### **SECTION 5.** FIRE FIGHTING MEASURES

**Suitable extinguishing** media

Carbon dioxide. Foam. Dry chemical powder.

For large fires – Water spray or fog.

Specific hazards

Flammable liquid and vapour. On combustion this product may emit toxic fumes and clouds of acrid smoke. Vapours are heavier than air and will accumulate. Vapours will form explosive concentrations with air. Vapours travel long distances and will flash

**Special protective** equipment and precautions for fire fighters

Wear breathing apparatus plus chemical protective suit and gloves. DO NOT approach containers suspected of being hot. May be violently or explosively reactive.

Cool fire exposed containers with water spray from a protected location. If safe to do

so, remove containers from path of fire.

Hazchem code

3[Y]E

#### **SECTION 6.** ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Eliminate all ignition sources. Avoid contact with spilled or released material. Avoid breathing vapour and avoid contact with skin and eyes. Control personal contact by using protective equipment. Clean up spills immediately.

**Environmental** precautions

Prevent, by any means available, spillage from entering drains or water course or soil.

Methods and materials for containment and clean up. Contain and soak up released material with fire-resistant absorbent such as sand, earth or vermiculite. Cover drains to prevent material from entering waterways. Stop leak if safe to do so. Using only spark-free shovels and explosion proof equipment collect absorbent material and seal in labelled drums for proper disposal. Dispose of in accordance with local, state and federal regulations.

Seek assistance from emergency services for large spills. Evacuate unprotected personnel from the immediate vicinity. Contain released material then blanket the spill using foam (where available) to prevent the spread of vapour.

#### **SECTION 7.** HANDLING AND STORAGE

**Precautions for safe** handling

Do not get in eyes, on skin, or on clothing. Wear personal protection equipment. Do not breathe vapours or spray mists. When handling, do not eat drink or smoke. Always wash hands with soap and water after handling. Observe proper occupational hygiene work practices. Wear a dust mask when sanding previous coatings to avoid breathing dust.

Use only in a well-ventilated area. Use mechanical extraction to remove vapour where necessary. Avoid smoking, naked lights, heat and other ignition sources. Vapour may ignite on pumping or pouring due to static electricity. Do not use plastic buckets. Use spark free tools when handling.

Conditions for safe storage including any incompatibilities

Store in a metal can or drum in an approved flammable liquids storage area. Check all containers are clearly labelled and free from leaks. Keep containers securely sealed when not in use. Store in a cool dry, well-ventilated area, away from sources of ignition. Avoid storage with oxidisers.

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#### **SECTION 8.** EXPOSURE CONTROLS AND PERSONAL PROTECTION

Australian national exposure standards No exposure standard has been established for this product.

Exposed individuals are not reasonably expected to be warned, by smell, that an

exposure standard is being exceeded. If the breathing zone concentration of ANY of the components listed below is exceeded then the individual is deemed to be over exposed.

**Component TWA STEL** 

mg/m<sup>3</sup> mg/m<sup>3</sup> ppm ppm 50 205 Methyl isobutyl ketone 75 307 80 **Xylene** 350 150 655 n-butanol 50 peak limitation 152 peak limitation

**Peak limitations** Peak limitations have been set for n-butanol (see above).

Absorption through the skin may be a significant source of exposure for n-butanol.

**Biological monitoring** Not required.

Use in a well ventilated area. General exhaust is adequate under normal operating **Engineering controls** 

> conditions. Local exhaust ventilation may be required in special circumstances to maintain vapour levels below the Lower Explosion Limit [LEL] for the solvents used. If

the risk of overexposure exists, wear an approved respirator.

Individual protection measures including Personal Protection Equipment (PPE)

Wear safety glasses or goggles. Avoid wearing contact lenses. Contact lenses pose a Eye and face protection

special hazard; soft lenses may concentrate and absorb irritants.

Wear chemical protective gloves, e.g. Nitrile or nitrile-butatoluene rubber. Do not use Skin protection

cotton, leather, PVC, rubber or polyethylene gloves as they will absorb the resin and

Hypersensitive persons should wear protective clothing, gloves and use protective cream

on face, hands and all exposed areas.

**Protective clothing** Personnel should wear antistatic clothing made of natural fibres or of high-temperature-

resistant synthetic fibres. Wear safety footwear.

**Respiratory protection** Selection of the Class and Type of respirator will depend on the level of confinement of

> the contamination. The local concentration of material, quantity and conditions of use determine the type of personal protective equipment required. Refer to AS1716 for

selection of an appropriate respirator.

#### **SECTION 9.** PHYSICAL AND CHEMICAL PROPERTIES

Grey viscous liquid **Appearance** 

Solvent Odour

pН Not applicable

Vapour pressure 0.87 Vapour density 3.46 122°C **Boiling point** 

**Freezing point** Not established

23°C Flash point **Solubility** Immiscible **Density** 1.45

Viscosity Not available

8.3% **UEL** 1.2% LEL **Auto-ignition temperature** 435°C

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SECTION 10.	STABILITY AND REACTIVITY		
Reactivity	Epoxy groups can react with amines, phenols, m are the most commonly used curing agents/harde growth polymerizations is mainly represented by	eners for epoxides and the case of step -	
Chemical stability	Product is considered stable.		
Conditions to avoid	Ignition sources. Presence of incompatible mate amines.	erials. Avoid unintended contact with	
Incompatible materials	Flammable liquids should not be stored with:- Class 1 – Explosives Class 2 – Flammable gases Class 2.3 – Poisonous gases Class 4.2 – Spontaneously combustible substat Class 5.1 – Oxidising agents Class 5.2 – Organic peroxides Class 7 – Radioactive substances.	nces	
Hazardous decomposition products	Decomposition products from epoxy resins deper presence of other materials. Gases are released exothermic reaction of epoxy resins release pher	during decomposition. Uncontrolled	
Hazardous reactions	Polymerization will not occur by itself. Mixing of	of product plus an aliphatic amine will	

#### **SECTION 11.** TOXICOLOGICAL INFORMATION

Toxicological information for this product is not available. Reference is made where possible to the individual constituents of the mixture.

cause irreversible polymerization with considerable heat build-up.

# **Toxicology Data:**

Ingredient Solid: Reaction product: Bisphenol- A-(epichlorhydrin)	LD <sub>50</sub> >15000mg/kg rat(oral)	LC <sub>50</sub> No data	Further Data Sensitisation: No data Carcinogenicity: No data Mutagenicity: No data Reproductive toxicity: No data
Methyl isobutyl ketone	>2000mg/kg rat(oral)	8.2-16.4 g/m3 / 4hours, Rat	IRRITATION Eye (human): 200 ppm/15m Skin (rabbit): 500 mg/24h - Mild Inhalation: Vapour may cause a narcotic effect. Carcinogenicity: Category 2 Reproductive toxicity: Fetotoxic at 12 300 mg/m3 in rats exposed for 6 – 15 days. Mutagenic: No Sensitisation: No
n-butanol	790mg/kg rat (oral) >2000mg/kg rabbit (dermal)	25mg/L / 4hours, Rat	IRRITATION Lowest inhalation toxicity TCLo [human] 25ppm – irritation Chronic effects: No data
Xylene (mixed isomers)	>2000mg/kg rat(oral)	> 20mg/L / 4hours, Rat	Irritation skin (rabbit):
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>2000mg/kg rabbit

(dermal)

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Carcinogenicity: No [IARC]

Mutagenicity: No

Reproductive toxicity: No

Sensitisation: No

### **Acute Health Effects:**

**Swallowed:** Expected to be of low to moderate toxicity: Aspiration into the lungs when swallowed or vomited

may cause chemical pneumonitis which can be fatal. May cause irritation to the mouth, throat,

oesophagus, and stomach with nausea, abdominal discomfort, vomiting and diarrhoea.

**Eye:** Irritating to eyes causing tearing, stinging, blurred vision and redness.

Ocular symptoms from exposure to high vapour concentrations may include a burning sensation, blurring of vision, lachrymation, and photophobia with symptoms becoming more severe toward the

end of the work week.

**Skin:** May cause moderate skin irritation.

**Inhaled:** Harmful by inhalation. Inhalation of vapours may cause irritation to the respiratory system.

Inhalation of high concentrations may cause central nervous system depression resulting in

headaches, dizziness, drowsiness and nausea. Continued inhalation may result in unconsciousness,

coma and even death.

### **Chronic Health Effects:**

Repeat exposure to high doses of solvent vapours can affect the nervous system, or may cause liver or kidney damage. Prolonged contact with the liquid may cause defatting of the skin which can lead to dermatitis.

n-Butanol and Xylene are reported to have caused hearing loss in laboratory animals on exposure to high vapour concentrations.

Circumstantial evidence points to n-butanol vapour as cause of a special vacuolar keratitis in human beings following repeated exposure to high vapour concentrations. In some patients vacuolar keratopathy causes no complaints, but in the most severely affected it has been associated with pain and tearing, characteristically most marked on first opening eyes in morning.

# SECTION 12. ECOLOGICAL INFORMATION

Avoid release to the environment

Methyl isobutyl ketone:

**Ecotoxicity:** Fish: LC<sub>50</sub>, Carassius auratus (goldfish), 24hr, 460 mg/L

 $LC_{50}$  Pimephales promelas (flathead minnow), 96hr: ~525 mg/L

Aquatic Invertebrates:

EC<sub>50</sub>, Daphnia magna (Water flea), 24hr, 1550 mg/l

Algae: ErC<sub>50</sub>, Scenedesmus capricornutum (fresh water algae), Threshold concentration for

reduction of total biomass, 8 days: 725mg/L

**Mobility:** Floats on water, highly mobile and may contaminate groundwater. **Persistence/degradability:** Readily biodegradable. Oxidises by photo-chemical reactions in air.

**Bioaccumulation:** Does not bioaccumulate.

Solid: Reaction product: Bisphenol-A-(epichlorhydrin):

**Ecotoxicity:** No data

**Mobility:** In the terrestrial environment, material is expected to remain in the soil. In the

aquatic environment, material will sink and remain in the sediment.

**Persistence/degradability:** Surface photo degradation is expected with exposure to sunlight. No appreciable

biodegradation is expected.

n-Butanol:

**Ecotoxicity:** Fish: LC<sub>50</sub> *Pimephales promelas* (flathead minnow), 96hr: 1400 mg/L

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Aquatic Invertebrates:

EC<sub>50</sub>, Daphnia magna (Water flea), 48hr, 1755 mg/l

**Mobility:** This product is soluble in water and therefore highly mobile on dilution risking

contamination of soil, waterways, grasslands, and groundwater.

**Persistence/degradability:** Readily biodegradable. Volatilises in air.

**Bioaccumulation:** Does not bioaccumulate.

# SECTION 13. DISPOSAL CONSIDERATIONS

**Disposal methods** PRODUCT: Product/ Rinsates/ Spillage from packaging or equipment are not to be

discharged to the environment. Organise disposal with recognised specialised hazardous

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waste operators.

**PACKAGING**: Decontaminate the packaging by triple rinsing. Allow to dry then puncture/crush the package to render it incapable of holding other product. Offer for disposal to the local landfill or recycle steel containers via steel can recycling programs. Disposal of empty paint containers via domestic recycling programs may differ between

local authorities. Check with your local Council first.

Special precautions for landfill or incineration

Incinerate dry, cured residue at an approved site.

# SECTION 14. TRANSPORT INFORMATION

UN number 1263
UN proper shipping name Class 3
Subsidiary risk None Marine pollutant No
Packing Group II

**Special precautions for** Flammable. Keep dry. Keep separate from foodstuffs.

user

Hazchem code 3[Y]E

### SECTION 15. REGULATORY INFORMATION

**SUSMP:** Not a scheduled poison.

AICS: The hazardous components listed in Section 3 of this SDS appear in the Australian Inventory of

Chemical Substances (AICS) database.

**NPI listed Chemicals:** Xylene, Methyl isobutyl ketone

**HVICL listed chemicals:** Reaction product: Bisphenol-A-(epichlorhydrin), Xylene, n-butanol,

### SECTION 16. OTHER INFORMATION

**Date of Preparation:** 1<sup>st</sup> June 2016

**Supersedes:** 11<sup>th</sup> March 2015

### Literature references:

AICS Search page – NOHSC http://www.nicnas.gov.au/industry/aics/search.asp

SDS's for individual raw materials.

Safe Work Australia: Hazardous Substances Information System:

Exposure Standards:

http://hsis.safeworkaustralia.gov.au/ExposureStandards

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GHS Hazardous Substances list:

http://hsis.safeworkaustralia.gov.au/GHSInformation/GHS\_Hazardous\_Chemical\_Information\_List

Globally Harmonized System of Classification and Labelling of Chemicals (GHS). Third Revised Edition. United Nations. New York and Geneva, 2009.

### **Abbreviations:**

ADG Australian Code for the Transport of Dangerous Goods by Road & Rail

AICS Australian Inventory of Chemical Substances

GHS Globally Harmonized System of Classification and Labelling of Chemicals

HVICL High Volume Industrial Chemicals List IARC International Agency for Research on Cancer

NOHSC National Occupational Health and Safety Commission

NPI National Pollutions Inventory

SUSMP Standard for the Uniform Scheduling of Medicines and Poisons

CAS Number Chemical Abstract Service registry number

LD<sub>50</sub> Median lethal dose

LC<sub>50</sub> Median lethal concentration. TWA Time weighted average STEL Short term exposure limit

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### **END OF SDS**

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