# **SAFETY DATA SHEET**



#### **ROYAL MAXX**

## **Section 1. Identification**

Product identifier : ROYAL MAXX
Product code : FWRM10001XXX
Other means of : Not available.

identification

Product type : Liquid.

Relevant identified uses of the substance or mixture and uses advised against

Identified uses
Not applicable.

Uses advised against

Not applicable.

Supplier's details : Berger Paints Singapore Pte Ltd

22 Benoi Sector, Singapore - 629854 Email: Berger@bergeronline.com.sg

Tele: +65 6801 7000 Fax: +65 6265 6356

**Emergency telephone** number (with hours of

operation)

: Tele: +65 9636 4852

### Section 2. Hazards identification

Classification of the substance or mixture

: Not classified.

Percentage of the mixture consisting of ingredient(s) of unknown hazards to the

aquatic environment: 90.2%

GHS label elements, including precautionary statements

Signal word : No signal word.

**Hazard statements** : No known significant effects or critical hazards.

**Precautionary statements** 

Prevention : Not applicable.

Response : Not applicable.

Storage : Not applicable.

Disposal : Not applicable.

Other hazards which do not : None known.

result in classification

# Section 3. Composition/information on ingredients

Substance/mixture : Mixture
Other means of : Not available.
identification

Ingredient name	%	Identifiers
propane-1,2-diol		CAS: 57-55-6 EC: 200-338-0

# Section 3. Composition/information on ingredients

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Chemical formula : Not applicable.

#### Section 4. First aid measures

#### **Description of necessary first aid measures**

**Eye contact**: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower

eyelids. Check for and remove any contact lenses. Get medical attention if irritation

occurs.

**Inhalation**: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Get medical attention if symptoms occur.

**Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and

shoes. Get medical attention if symptoms occur.

Ingestion : Wash out mouth with water. If material has been swallowed and the exposed

person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms

occur.

#### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

Eye contact
 Inhalation
 No known significant effects or critical hazards.
 Skin contact
 No known significant effects or critical hazards.
 Ingestion
 No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

Eye contact : No specific data.

Inhalation : No specific data.

Skin contact : No specific data.

Ingestion : No specific data.

#### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

**Specific treatments** : No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training.

#### See toxicological information (Section 11)

# Section 5. Fire-fighting measures

#### **Extinguishing media**

Suitable extinguishing media

: Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing** 

media

: None known.

Specific hazards arising from the chemical

: In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition products

: Decomposition products may include the following materials:

carbon dioxide carbon monoxide metal oxide/oxides

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# Section 5. Fire-fighting measures

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

#### Section 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

For emergency responders:

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions** 

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

#### Methods and materials for containment and cleaning up

**Small spill** 

: Stop leak if without risk. Move containers from spill area. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

: Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Dispose of via a licensed waste disposal contractor. Contain and collect spillage with non-combustible, absorbent material e. g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

## Section 7. Handling and storage

#### Precautions for safe handling

Protective measures
Advice on general
occupational hygiene

- : Put on appropriate personal protective equipment (see Section 8).
- Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

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## Section 8. Exposure controls/personal protection

#### **Control parameters**

Occupational exposure limits

None.

#### **Biological exposure indices**

No exposure indices known.

# Appropriate engineering controls

: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

# **Environmental exposure** controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### **Individual protection measures**

**Hygiene measures** 

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** 

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

#### Skin protection

**Hand protection** 

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

**Body protection** 

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection** 

: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

# Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

#### **Appearance**

Physical state : Liquid.

Color : Not available.

Odor : Not available.

Odor threshold : Not available.

PH : Not available.

Melting point/freezing point : Not available.

Boiling point or initial : Not available.

range

boiling point and boiling

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# Section 9. Physical and chemical properties and safety characteristics

Flash point : Closed cup: >65°C (>149°F)

Evaporation rate : Not available.
Flammability : Not available.
Lower and upper explosion : Not available.

limit/flammability limit

Vapor pressure :

	Vapor Pressur		e at 20°C	Va	Vapor pressure		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method	
water	17.5	2.3					
water	17.5	2.3					
propane-1,2-diol	0.15	0.02	EU A.4				
Paraffin oils (petroleum), catalytic dewaxed heavy	<0.07501	<0.01	ASTM D 5191				
2-(2-butoxyethoxy)ethanol	0.022	0.0029					
isobutyric acid, monoester with 2,2,4-trimethylpentane-1,3-diol	0.0098	0.0013	EU A.4				
diuron (ISO)	0.000000006	0.0000000008	OECD 104	0.0000013	0.0000017	OECD 104	

Relative vapor density : Not available.

Relative density : Not available.

**Density** : 1.43 g/cm³ [25°C (77°F)]

Solubility in water : Not available.

Miscible with water : Yes.

Partition coefficient: n-

octanol/water

: Not applicable.

**Auto-ignition temperature** :

Ingredient name	°C	°F	Method
2-(2-butoxyethoxy)ethanol	210	410	DIN 51794
propane-1,2-diol	371	699.8	
isobutyric acid, monoester with 2,2,4-trimethylpentane-1,3-diol	393	739.4	
diuron (ISO)	401	753.8	EU A.16

**Decomposition temperature** :

: Not available.

**Viscosity** 

Dynamic (room temperature): Not available. Kinematic (room temperature): Not available. Kinematic (40°C (104°F)): Not available.

**Particle characteristics** 

Median particle size : Not applicable.

# Section 10. Stability and reactivity

**Reactivity**: No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability**: The product is stable.

**Possibility of hazardous** 

reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : No specific data.

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# Section 10. Stability and reactivity

Incompatible materials : No specific data.

**Hazardous decomposition** 

products

: Under normal conditions of storage and use, hazardous decomposition products

should not be produced.

**SADT** : Not available.

## **Section 11. Toxicological information**

#### Information on toxicological effects

**Acute toxicity** 

**Product/ingredient name** 

propane-1,2-diol Rat - Oral - LD50

20 a/ka

Result

Result

Result

Rabbit - Dermal - LD50

20800 mg/kg

**Conclusion/Summary [Product]** : Not available.

Skin corrosion/irritation

**Product/ingredient name** 

propane-1,2-diol Child - Skin - Moderate irritant

> Duration of treatment/exposure: 96 hours Amount/concentration applied: 30 % C

Human - Skin - Mild irritant

Duration of treatment/exposure: 168 hours Amount/concentration applied: 500 mg **Human - Skin - Moderate irritant** Duration of treatment/exposure: 72 hours Amount/concentration applied: 104 mg I

Woman - Skin - Mild irritant

**Duration of treatment/exposure**: 96 hours Amount/concentration applied: 30 %

**Conclusion/Summary [Product]** : Not available.

Serious eye damage/eye irritation

Product/ingredient name

propane-1,2-diol Rabbit - Eyes - Mild irritant

> **Duration of treatment/exposure: 24 hours** Amount/concentration applied: 500 mg

Rabbit - Eyes - Mild irritant

Amount/concentration applied: 100 mg

**Conclusion/Summary [Product]** : Not available.

**Respiratory corrosion/irritation** 

Not available.

**Conclusion/Summary [Product]** : Not available.

Respiratory or skin sensitization

Not available.

Skin

**Conclusion/Summary [Product]** : Not available.

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# Section 11. Toxicological information

Respiratory

**Conclusion/Summary [Product]**: Not available.

**Germ cell mutagenicity** 

Not available.

**Conclusion/Summary [Product]**: Not available.

**Carcinogenicity** 

Not available.

**Conclusion/Summary [Product]** : Not available.

**Reproductive toxicity** 

Not available.

**Conclusion/Summary [Product]** : Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

**Aspiration hazard** 

Not available.

Information on the likely routes of exposure

Not available.

Potential acute health effects

Eye contact
 Inhalation
 No known significant effects or critical hazards.
 Skin contact
 Ingestion
 No known significant effects or critical hazards.
 Ingestion
 No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact: No specific data.Inhalation: No specific data.Skin contact: No specific data.Ingestion: No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

**Short term exposure** 

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Long term exposure

Potential immediate : Not available.

effects

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# Section 11. Toxicological information

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

**Conclusion/Summary [Product]** : Not available.

General : No known significant effects or critical hazards.
 Carcinogenicity : No known significant effects or critical hazards.
 Mutagenicity : No known significant effects or critical hazards.
 Reproductive toxicity : No known significant effects or critical hazards.

#### **Numerical measures of toxicity**

#### **Acute toxicity estimates**

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	(vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
propane-1,2-diol	20000	20800	N/A	N/A	N/A

# Section 12. Ecological information

#### **Toxicity**

**Product/ingredient name** 

propane-1,2-diol

Result

Acute - LC50 - Fresh water

Crustaceans - Water flea - Ceriodaphnia dubia

Age: <24 hours

1020000 µg/l [48 hours]

Effect: Mortality

Acute - LC50 - Fresh water

Fish - Fathead minnow - Pimephales promelas

<u>Age</u>: ≤7 days

710000 µg/l [96 hours] Effect: Mortality

**Conclusion/Summary [Product]**: Not available.

#### Persistence and degradability

Not available.

Conclusion/Summary [Product] : Not available.

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
propane-1,2-diol	-1.07	-	Low

#### **Mobility in soil**

Soil/Water partition

coefficient

: Not available.

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# **Section 12. Ecological information**

#### Other adverse effects

No known significant effects or critical hazards.

# Section 13. Disposal considerations

#### **Disposal methods**

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

# **Section 14. Transport information**

	UN	IMDG	IATA	ADR/RID	ADN
UN number	Not available.	Not available.	Not available.	Not available.	9003
UN proper shipping name	Not available.	Not available.	Not available.	Not available.	SUBSTANCES WITH A FLASH- POINT ABOVE 60 °C AND NOT MORE THAN 100 °C (propane- 1,2-diol)
Transport hazard class (es)	Not available.	Not available.	Not available.	Not available.	9
Packing group	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	Yes.

#### **Additional information**

**ADN** 

: The product is only regulated as a dangerous good when transported in tank vessels.

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in

the event of an accident or spillage.

Transport in bulk according : Not available. to IMO instruments

# Section 15. Regulatory information

Singapore - hazardous chemicals under government control

None.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

**Montreal Protocol** 

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# Section 15. Regulatory information

Not listed

**Stockholm Convention on Persistent Organic Pollutants** 

Not listed.

**Rotterdam Convention on Prior Informed Consent (PIC)** 

Not listed.

**UNECE Aarhus Protocol on POPs and Heavy Metals** 

Not listed.

**Inventory list** 

Australia : Not determined.
Canada : Not determined.
China : Not determined.

**Eurasian Economic Union**: Russian Federation inventory: Not determined.

Japan : Japan inventory (CSCL): Not determined.

Japan inventory (ISHL): Not determined.

**New Zealand** : Not determined. : Not determined. **Philippines** Republic of Korea : Not determined. **Taiwan** : Not determined. **Thailand** : Not determined. **Turkey** : Not determined. **United States** : Not determined. **Viet Nam** : Not determined.

### Section 16. Other information

**History** 

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**Key to abbreviations** : ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships,

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available SGG = Segregation Group UN = United Nations

Procedure used to derive the classification

Not classified.

References : Not available.

✓ Indicates information that has changed from previously issued version.

**Notice to reader** 

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# Section 16. Other information

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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