



# SAFETY DATA SHEET

RHINOZ Primer Bonding

Product code. RF-143

Revision date. 20/01/2017

## 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE SUPPLIER

### 1.1 Product Identifier

Product name : RHINOZ Primer Bonding

### 1.2 Recommended use of the chemical and restrictions on use

Recommended use : Primer and concrete bonding agent.

### 1.3 Manufacturer or supplier's details

Manufacturer : Blue Label Co.,Ltd.  
48/58 Moo.1 Ekachai Road, Khok-krabue,  
Amphur Muang, Samutsakhon, 74000 Thailand  
Telephone. +66 3449 4774-5 Telefax. +66 3449 4776

### 1.4 Emergency telephone number

Product information : +66 3449 4774-5

## 2. HAZARDS IDENTIFICATION

### 2.1 GHS Classification of the substrate or mixture

Not classified as a hazardous substance or mixture according to the Globally Harmonized System (GHS).

### 2.2 GHS label elements

Pictograms : None  
Signal word : None  
Hazard statements : None  
Precautionary statements : None

### 2.3 Other hazards which do not result in classification

None known

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance/Mixture : Mixture

Chemical name	CAS Number	% Weight
Acrylic polymer	Not available	20 - 50
Water	7732-18-5	50 - 80

## 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

Inhalation : Remove person to fresh air and keep at rest in a position comfortable for breathing.  
Skin contact : Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water.  
Eye contact : - Immediately rinse eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses, if worn. Get medical attention if irritation persists.  
Ingestion : Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.



### 4.2 Most important symptoms and effects, both acute and delayed

Inhalation	:	No know significant effects or critical hazards.
Skin contact	:	No know significant effects or critical hazards.
Eye contact	:	Direct contact with eyes may cause temporary irritation.
Ingestion	:	No specific data.

### 4.3 Indication of any immediate medical attention and special treatment needed

Note to physicians : Treat symptomatically.

## 5. FIRE FIGHTING MEASURES

### 5.1 Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

### 5.2 Specific hazards arising from the chemical

In case of fire, may produce irritating fumes and gases, include carbon dioxide and carbon monoxide when heated to decomposition.

### 5.3 Special protective equipment and precautions for fire-fighters

In case of fire, firefighters should wear self-contained breathing apparatus (SCBA) and protective suit.

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions

Use personal protective equipment as required, keep unprotected or unnecessary persons away.

### 6.2 Environmental precautions

Prevent entry to sewers, ditches and waterways.

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

Absorb spill with inert material (e.g. dry sand or earth) then place in suitable, closed containers for disposal.

## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Provide good ventilation. Avoid contact with skin and eyes. Use personal protective equipment as required ( in section 8 ) and wash thoroughly after handling.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in a dry, cool and well-ventilated place, keep container tightly closed when not in use and keep away from direct sunlight and heat, recommended storage is between 5°C to 40°C.



## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control parameters

No occupational exposure limit values established.

### 8.2 Engineering controls

Ensure adequate ventilation, especially in confined areas.

### 8.3 Personal protective equipment (PPE)

- Skin protection : Wear chemical resistance gloves and appropriate protective clothing and boots when a risk assessment indicates this is necessary.
- Eye protection : Wear chemical goggles and/or face shields when a risk assessment indicates this is necessary.
- Respiratory protection : Wear the suitable mask when encounter concentrations of contaminants and there is inadequate ventilation.
- Hygiene measures : Wash hands before breaks and at the end of workday. Remove and wash contaminated clothing before re-use. When using do not eat, drink or smoke.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

- 9.1 Appearance : Milky white liquid
- 9.2 Odour : Mild odour
- 9.3 Odour threshold : No data available
- 9.4 pH : 7.0 – 9.0
- 9.5 Melting point/freezing point : No data available
- 9.6 Boiling point/boiling range : No data available
- 9.7 Flash point : No data available
- 9.8 Evaporation rate : No data available
- 9.9 Flammability (solid, gas) : No data available
- 9.10 Upper/Lower explosive limits : No data available
- 9.11 Vapour pressure : No data available
- 9.12 Vapour density : No data available
- 9.13 Relative density : 1.00 – 1.10
- 9.14 Solubility (in water) : Miscible in water
- 9.15 Partition coefficient : n-octanol/water : No data available
- 9.16 Auto-ignition temperature : No data available
- 9.17 Decomposition temperature : No data available
- 9.18 Viscosity : No data available



## 10. STABILITY AND REACTIVITY

- 10.1 Reactivity** : No data available
- 10.2 Chemical stability** : This product is stable under normal conditions of storage
- 10.3 Possibility of hazardous reactions** : Hazardous reactions will not occur
- 10.4 Conditions to avoid** : Heat, flames and sparks
- 10.5 Incompatible materials** : Strong acids, strong bases and strong oxidizing agents
- 10.6 Hazardous decomposition products** : In case of fire, may produce irritating fumes and gases, include carbon dioxide and carbon monoxide when heated to decomposition.

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on likely routes of exposure

Skin contact, eye contact, inhalation and ingestion.

### 11.2 Symptoms related to the physical, chemical and toxicological characteristics

- Inhalation : No know significant effects or critical hazards.
- Skin contact : No know significant effects or critical hazards.
- Eye contact : Direct contact with eyes may cause temporary irritation.
- Ingestion : No specific data.

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

- Skin corrosion/irritation : No data available
- Serious eye damage/irritation : Direct contact with eyes may cause temporary irritation.
- Respiratory or skin sensitization : No data available
- Gem cell mutagenicity : No data available
- Carcinogenicity : No data available
- Reproductive toxicity : No data available
- STOT-Single exposure : No data available
- STOT-Repeated exposure : No data available
- Aspiration toxicity : No data available

### 11.4 Numerical measure of toxicity

- Acute toxicity : No data available

## 12. ECOLOGICAL INFORMATION

- 12.1 Ecotoxicity** : No data available
- 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 Other adverse effects** : Avoid release to the environment



## SAFETY DATA SHEET

RHINOZ Primer Bonding

Product code. RF-143

Revision date. 20/01/2017

### 13. DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods

This material and its container must be disposed of in a safe way. Do not allow material into any sewer on the ground, or into any body of water. Dispose of contents/container in accordance with local/regional/nation/international regulations, or send to a licensed waste management company.

### 14. TRANSPORT INFORMATION

This product is not classified as dangerous goods for transport according to ADR/RID, IMO/IMDG and IATA/ICAO regulations.

- |  |                      |
|--|----------------------|
| 14.1 UN Number   | : Not regulated      |
| 14.2 UN Proper Shipping Name   | : Not regulated      |
| 14.3 Transport Hazard Class  | : Not classified     |
| 14.4 Packing Group   | : Not regulated      |
| 14.5 Environmental hazards   | : No                 |
| 14.6 Special precautions for user  | : Not data available |
| 14.7 Transport in bulk according to Annex II of MAROL 73/78 and IBC code | : Not applicable     |

### 15. REGULATORY INFORMATION

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

##### Thailand regulations

Hazardous Substance Act B.E. 2535 : Not applicable

Notification of Department of Labour Protection and Welfare (List of Hazardous Chemicals) : Not listed

### 16. OTHER INFORMATION

#### 16.1 Revision history

- |                     |   |
|---------------------|---|
| Revision date       | : 20 January 2017                                 |
| Reason for revision | : Updated information compliant with GHS standard |

#### 16.2 Definitions and abbreviations

- |         |   |
|---------|---|
| ACGIH   | : American Conference of Governmental Industrial Hygienists                           |
| ADR/RID | : European Agreement for transport of dangerous goods by road (ADR) and by rail (RID) |
| GHS     | : Global Harmonized System of Classification and Labeling of Chemicals                |
| IATA    | : International Air Transport Association   |
| ICAO    | : International Civil Aviation Organization   |
| IMO     | : International Maritime Organization   |
| IMDG    | : International Maritime Dangerous Goods  |
| LC50    | : Lethal Concentration, 50 percent  |
| LD50    | : Lethal Dose, 50 percent   |
| Mppcf   | : Million particles per cubic foot of air   |
| OEL     | : Occupational Exposure Limit   |



## SAFETY DATA SHEET

**RHINOZ Primer Bonding**

Product code. RF-143

Revision date. 20/01/2017

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OSHA	:	Occupational Safety and Health Administration
PEL	:	Permissible Exposure Limit
TLV	:	Threshold Limit Value
TWA	:	Time Weighted Average

### 16.3 Disclaimer

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. We will not be held liable for any damage resulting from handling or from contact with the above product.



# SAFETY DATA SHEET

RHINOZ Acrylic Skim

Product code. RF-102

Revision date. 20/01/2017

## 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE SUPPLIER

### 1.1 Product Identifier

Product name : RHINOZ Acrylic Skim

### 1.2 Recommended use of the chemical and restrictions on use

Recommended use : For interior and exterior decoration and repairing surfaces on ceilings and walls.

### 1.3 Manufacturer or supplier's details

Manufacturer : Blue Label Co.,Ltd.  
48/58 Moo.1 Ekachai Road, Khok-krabue,  
Amphur Muang, Samutsakhon, 74000 Thailand  
Telephone. +66 3449 4774-5 Telefax. +66 3449 4776

### 1.4 Emergency telephone number

Product information : +66 3449 4774-5

## 2. HAZARDS IDENTIFICATION

### 2.1 GHS Classification of the substrate or mixture

Not classified as a hazardous substance or mixture according to the Globally Harmonized System (GHS).

### 2.2 GHS label elements

Pictograms : None  
Signal word : None  
Hazard statements : None  
Precautionary statements : None

### 2.3 Other hazards which do not result in classification

None known

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance/Mixture : Mixture

Chemical name	CAS Number	% Weight
Acrylic polymer	Not available	20 - 50
Calcium carbonate	471-34-1	50 - 80
Ethylene glycol	107-21-1	1 - 3
Water	7732-18-5	1 - 20



### 4. FIRST AID MEASURES

#### 4.1 Description of first aid measures

- Inhalation : Remove person to fresh air and keep at rest in a position comfortable for breathing.
- Skin contact : Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water.
- Eye contact : Immediately rinse eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses, if worn. Get medical attention if irritation persists.
- Ingestion : Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.

#### 4.2 Most important symptoms and effects, both acute and delayed

- Inhalation : No known significant effects or critical hazards.
- Skin contact : No known significant effects or critical hazards.
- Eye contact : Direct contact with eyes may cause temporary irritation.
- Ingestion : May be harmful if swallowed in large amounts.

#### 4.3 Indication of any immediate medical attention and special treatment needed

- Note to physicians : Treat symptomatically.

### 5. FIRE FIGHTING MEASURES

#### 5.1 Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### 5.2 Specific hazards arising from the chemical

In case of fire, may produce irritating fumes and gases, include carbon dioxide and carbon monoxide when heated to decomposition.

#### 5.3 Special protective equipment and precautions for fire-fighters

In case of fire, firefighters should wear self-contained breathing apparatus (SCBA) and protective suit.

### 6. ACCIDENTAL RELEASE MEASURES

#### 6.1 Personal precautions

Use personal protective equipment as required, keep unprotected or unnecessary persons away.

#### 6.2 Environmental precautions

Prevent entry to sewers, ditches and waterways.

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

Absorb spill with inert material (e.g. dry sand or earth) then place in suitable, closed containers for disposal.





# SAFETY DATA SHEET

RHINOZ Acrylic Skim

Product code. RF-102

Revision date. 20/01/2017

## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Provide good ventilation. Avoid contact with skin and eyes. Use personal protective equipment as required (in section 8) and wash thoroughly after handling.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in a dry, cool and well-ventilated place, keep container tightly closed when not in use and keep away from direct sunlight and heat, recommended storage is between 5°C to 40°C.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control parameters

Component	CAS No.	Reference	Type/Form of exposure	Exposure limits
Calcium Carbonate	471-34-1	OSHA PEL	TWA (respirable dust)	5 mg/m <sup>3</sup>
		OSHA PEL	TWA (total dust)	15 mg/m <sup>3</sup>
Ethylene glycol	107-21-1	ACGIH TLV	TWA (ceiling, aerosol)	100 ppm

### 8.2 Engineering controls

Ensure adequate ventilation, especially in confined areas.

### 8.3 Personal protective equipment (PPE)

- Skin protection : Wear chemical resistance gloves and appropriate protective clothing and boots when a risk assessment indicates this is necessary.
- Eye protection : Wear chemical goggles and/or face shields when a risk assessment indicates this is necessary.
- Respiratory protection : Wear the suitable mask when encounter concentrations of contaminants and there is inadequate ventilation.
- Hygiene measures : Wash hands before breaks and at the end of workday. Remove and wash contaminated clothing before re-use. When using do not eat, drink or smoke.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

- 9.1 Appearance : White paste
- 9.2 Odour : Mild odour
- 9.3 Odour threshold : No data available
- 9.4 pH : 8 – 10
- 9.5 Melting point/freezing point : No data available
- 9.6 Boiling point/boiling range : No data available
- 9.7 Flash point : No data available
- 9.8 Evaporation rate : No data available



## SAFETY DATA SHEET

RHINOZ Acrylic Skim

Product code. RF-102

Revision date. 20/01/2017

<b>9.9 Flammability (solid, gas)</b>	:	No data available
<b>9.10 Upper/Lower explosive limits</b>	:	No data available
<b>9.11 Vapour pressure</b>	:	No data available
<b>9.12 Vapour density</b>	:	No data available
<b>9.13 Relative density</b>	:	1.40 – 1.60
<b>9.14 Solubility (in water)</b>	:	Miscible in water
<b>9.15 Partition coefficient : n-octanol/water</b>	:	No data available
<b>9.16 Auto-ignition temperature</b>	:	No data available
<b>9.17 Decomposition temperature</b>	:	No data available
<b>9.18 Viscosity</b>	:	No data available

### 10. STABILITY AND REACTIVITY

<b>10.1 Reactivity</b>	:	No data available
<b>10.2 Chemical stability</b>	:	This product is stable under normal conditions of storage
<b>10.3 Possibility of hazardous reactions</b>	:	Hazardous reactions will not occur
<b>10.4 Conditions to avoid</b>	:	Heat, flames and sparks
<b>10.5 Incompatible materials</b>	:	Strong acids, strong bases and strong oxidizing agents
<b>10.6 Hazardous decomposition products</b>	:	In case of fire, may produce irritating fumes and gases, include carbon dioxide and carbon monoxide when heated to decomposition.

### 11. TOXICOLOGICAL INFORMATION

#### 11.1 Information on likely routes of exposure

Skin contact, eye contact, inhalation and ingestion.

#### 11.2 Symptoms related to the physical, chemical and toxicological characteristics

Inhalation	:	No known significant effects or critical hazards.
Skin contact	:	No known significant effects or critical hazards.
Eye contact	:	Direct contact with eyes may cause temporary irritation.
Ingestion	:	Expected to be a low ingestion hazard.

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

Skin corrosion/irritation	:	No data available
Serious eye damage/irritation	:	Direct contact with eyes may cause temporary irritation.
Respiratory or skin sensitization	:	No data available
Gen cell mutagenicity	:	No data available
Carcinogenicity	:	No data available
Reproductive toxicity	:	No data available
STOT-Single exposure	:	No data available
STOT-Repeated exposure	:	No data available
Aspiration toxicity	:	No data available



# SAFETY DATA SHEET

RHINOZ Acrylic Skim

Product code. RF-102

Revision date. 20/01/2017

## 11.4 Numerical measure of toxicity

Acute toxicity estimates : LD50 Oral (Rat) >5000 mg/kg

### Components

Calcium carbonate : LD50 Oral (Rat) 6450 mg/kg

: LD50 Dermal (Rabbit) >2000 mg/kg

Ethylene glycol : LD50 Oral (Rat) 4700 mg/kg

: LD50 Dermal (Rabbit) 9530 mg/kg

## 12. ECOLOGICAL INFORMATION

- 12.1 Ecotoxicity : No data available  
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 Other adverse effects : Avoid release to the environment

## 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

This material and its container must be disposed of in a safe way. Do not allow material into any sewer on the ground, or into any body of water. Dispose of contents/container in accordance with local/regional/nation/international regulations, or send to a licensed waste management company.

## 14. TRANSPORT INFORMATION

This product is not classified as dangerous goods for transport according to ADR/RID, IMO/IMDG and IATA/ICAO regulations.

- 14.1 UN Number : Not regulated  
14.2 UN Proper Shipping Name : Not regulated  
14.3 Transport Hazard Class : Not classified  
14.4 Packing Group : Not regulated  
14.5 Environmental hazards : No  
14.6 Special precautions for user : Not data available  
14.7 Transport in bulk according to Annex II of MAROL 73/78 and IBC code : Not applicable

## 15. REGULATORY INFORMATION

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

#### Thailand regulations

Hazardous Substance Act B.E. 2535 : Not applicable

Notification of Department of Labour Protection and Welfare (List of Hazardous Chemicals) : Ethylene glycol



### 16. OTHER INFORMATION

#### 16.1 Revision history

Revision date : 20 January 2017  
Reason for revision : Updated information compliant with GHS standard

#### 16.2 Definitions and abbreviations

ACGIH : American Conference of Governmental Industrial Hygienists  
ADR/RID : European Agreement for transport of dangerous goods by road (ADR) and by rail (RID)  
GHS : Global Harmonized System of Classification and Labeling of Chemicals  
IATA : International Air Transport Association  
ICAO : International Civil Aviation Organization  
IMO : International Maritime Organization  
IMDG : International Maritime Dangerous Goods  
LC50 : Lethal Concentration, 50 percent  
LD50 : Lethal Dose, 50 percent  
Mppcf : Million particles per cubic foot of air  
OEL : Occupational Exposure Limit  
OSHA : Occupational Safety and Health Administration  
PEL : Permissible Exposure Limit  
TLV : Threshold Limit Value  
TWA : Time Weighted Average

#### 16.3 Disclaimer

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. We will not be held liable for any damage resulting from handling or from contact with the above product.



## 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE SUPPLIER

### 1.1 Product Identifier

Product name : RHINOZ Hybrid FX-55 ( Part A )

### 1.2 Recommended use of the chemical and restrictions on use

Recommended use : For filling joints and surface repairing such as cracks, splits on concrete surface

### 1.3 Manufacturer or supplier's details

Manufacturer : Blue Label Co.,Ltd.  
48/58 Moo.1 Ekachai Road, Khok-krabue,  
Amphur Muang, Samutsakhon, 74000 Thailand  
Telephone. +66 3449 4774-5 Telefax. +66 3449 4776

### 1.4 Emergency telephone number

Product information : +66 3449 4774-5

## 2. HAZARDS IDENTIFICATION

### 2.1 GHS Classification of the substrate or mixture

Skin corrosion/irritation : Category 2  
Serious eye damage/eye irritation : Category 2A  
Skin sensitizer : Category 1  
Long-term hazards to the aquatic environment : Category 2

### 2.2 GHS label elements

**Pictograms** :



**Signal word** : WARNING

**Hazard statements** :

H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H411 Toxic to aquatic life with long lasting effects.

**Precautionary statements** : **Prevention**

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P264 Wash skin thoroughly after handling.  
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.

**Response**

P302+P352 IF ON SKIN : Wash with plenty of soap and water.  
P305+P351+P338 IF IN EYES : Rinse cautiously with water for several minutes. Remove contact lenses,



# SAFETY DATA SHEET

RHINOZ Hybrid FX-55 (Part A)

Product code. RF-239

Revision date. 20/10/2020

	if present and easy to do. Continue rinsing.
P333+P313	IF skin irritation or rash occurs : Get medical advice/attention.
P337+P313	IF eye irritation persists : Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash before reuse.
P391	Collect spillage.
	<b>Disposal</b>
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

## 2.3 Other hazards which do not result in classification

None known

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

**Substance/Mixture** : Mixture

Chemical name	CAS Number	% Weight
Reaction product : Bisphenol-A-(epichlorohydrin) epoxy resin (MW $\leq$ 700)	25068-38-6	10 - 30
Oxirane, mono [(C12-14-alkyloxy)methyl] derivs	68609-97-2	1 - 10
Calcium carbonate	471-34-1	40 - 70

## 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

- Inhalation : Remove person to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if you feel unwell.
- Skin contact : Immediately wash skin with soap and plenty of water. Remove and wash contaminated clothing before reuse. Get medical attention if irritation develops and persists.
- Eye contact : Immediately rinse eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses, if worn. Get medical attention immediately.
- Ingestion : If swallowed, do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with clean water and get medical attention immediately.

### 4.2 Most important symptoms and effects, both acute and delayed

- Inhalation : No known significant effects or critical hazards.
- Skin contact : Causes skin irritation. May cause an allergic skin reaction.
- Eye contact : Causes serious eye irritation.
- Ingestion : May be irritating to mouth, throat and stomach.

### 4.3 Indication of any immediate medical attention and special treatment needed

- Note to physicians : Treat symptomatically.



## 5. FIRE FIGHTING MEASURES

### 5.1 Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

### 5.2 Specific hazards arising from the chemical

No specific fire or explosion hazard.

### 5.3 Special protective equipment and precautions for fire-fighters

In case of fire, firefighters should wear self-contained breathing apparatus (SCBA) and protective suit.

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions

Avoid contact with skin and eyes. Use appropriate personal protective equipment ( see section 8.)

Isolate the hazard area and deny entry to unnecessary or unprotected personnel.

### 6.2 Environmental precautions

Prevent entry to sewers, ditches and waterways.

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

Collect spillage in a suitable container, seal securely for disposal according to local regulations.

## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Provide good ventilation. Do not breathe vapours or spray mist. Avoid contact with skin and eyes. Use appropriate personal protective equipment recommended in section 8 and wash thoroughly after handling.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in a dry, cool and well-ventilated place, keep container tightly closed when not in use and protect from incompatible materials. Keep away from direct sunlight and heat, recommended storage is between 5<sup>o</sup>C to 40<sup>o</sup>C.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control parameters

No occupational exposure limit values established.

### 8.2 Engineering controls

Ensure adequate ventilation, especially in confined areas.

### 8.3 Personal protective equipment (PPE)

Skin protection : Wear chemical resistance gloves and appropriate protective clothing and boots as required to prevent skin contact.

Eye protection : Wear chemical goggles and/or face shields as required to prevent potential eye contact, irritation or injury.



# SAFETY DATA SHEET

RHINOZ Hybrid FX-55 (Part A)

Product code. RF-239

Revision date. 20/10/2020

- Respiratory protection : Wear respiratory protection when encounter concentrations of contaminants and there is inadequate ventilation.
- Hygiene measures : Wash hands before breaks and at the end of workday. Remove and wash contaminated clothing before re-use. When using do not eat, drink or smoke.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

- 9.1 **Appearance** : White viscous
- 9.2 **Odour** : Characteristic
- 9.3 **Odour threshold** : No data available
- 9.4 **pH** : No data available
- 9.5 **Melting point/freezing point** : No data available
- 9.6 **Boiling point/boiling rage** : No data available
- 9.7 **Flash point** : Noncombustible
- 9.8 **Evaporation rate** : No data available
- 9.9 **Flammability (solid, gas)** : No data available
- 9.10 **Upper/Lower explosive limits** : No data available
- 9.11 **Vapour pressure** : No data available
- 9.12 **Vapour density** : No data available
- 9.13 **Relative density** : 1.80 – 1.90
- 9.14 **Solubility (in water)** : No data available
- 9.15 **Partition coefficient : n-octanol/water** : No data available
- 9.16 **Auto-ignition temperature** : No data available
- 9.17 **Decomposition temperature** : No data available
- 9.18 **Viscosity** : No data available

## 10. STABILITY AND REACTIVITY

- 10.1 **Reactivity** : No dangerous reaction known under conditions of normal use.
- 10.2 **Chemical stability** : This product is stable under normal conditions of storage.
- 10.3 **Possibility of hazardous reactions** : Hazardous reactions will not occur.
- 10.4 **Conditions to avoid** : Heat and direct sunlight.
- 10.5 **Incompatible materials** : No data available
- 10.6 **Hazardous decomposition products** : No data available

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on likely routes of exposure

Skin contact, eye contact

### 11.2 Symptoms related to the physical, chemical and toxicological characteristics

- Inhalation : No know significant effects or critical hazards.
- Skin contact : Causes skin irritation. May cause an allergic skin reaction.
- Eye contact : Causes serious eye irritation.





Ingestion : May be irritating to mouth, throat and stomach.

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

Skin corrosion/irritation : Causes skin irritation  
Serious eye damage/irritation : Causes serious eye damage  
Respiratory or skin sensitization : May cause an allergic skin reaction  
Gem cell mutagenicity : No data available  
Carcinogenicity : No data available  
Reproductive toxicity : No data available  
STOT-Single exposure : May cause respiratory irritation  
STOT-Repeated exposure : No data available  
Aspiration toxicity : No data available

### 11.4 Numerical measure of toxicity

Acute toxicity : No data available

## 12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity : No data available  
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 Other adverse effects : No data available

## 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

This material and its container must be disposed of in a safe way. Do not allow material into any sewer on the ground, or into any body of water. Dispose of contents/container in accordance with local/regional/nation/international regulations, or send to a licensed waste management company.

## 14. TRANSPORT INFORMATION

This product is not classified as dangerous goods for transport according to ADR/RID, IMO/IMDG and IATA/ICAO regulation.

14.1 UN number : Not required  
14.2 UN proper shipping name : Not required  
14.3 Transport hazard class : Not required  
14.4 Packing group : Not required  
14.5 Environmental hazards : Not required  
14.6 Special precautions for user : Not required  
14.7 Transport in bulk according to Annex II : Not required  
of MAROL 73/78 and IBC code



## 15. REGULATORY INFORMATION

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

No data available

## 16. OTHER INFORMATION

### 16.1 Revision history

Revision date : 20 October 2020  
Reason for revision : Updated information compliant with GHS standard

### 16.2 Definitions and abbreviations

ACGIH	: American Conference of Governmental Industrial Hygienists
ADR/RID	: European Agreement for transport of dangerous goods by road (ADR) and by rail (RID)
GHS	: Global Harmonized System of Classification and Labeling of Chemicals
IATA	: International Air Transport Association
ICAO	: International Civil Aviation Organization
IMO	: International Maritime Organization
IMDG	: International Maritime Dangerous Goods
LC50	: Lethal Concentration, 50 percent
LD50	: Lethal Dose, 50 percent
Mppcf	: Million particles per cubic foot of air
OEL	: Occupational Exposure Limit
OSHA	: Occupational Safety and Health Administration
PEL	: Permissible Exposure Limit
STOT	: Specific Target Organ Toxicity
TLV	: Threshold Limit Value
TWA	: Time Weighted Average

### 16.3 Disclaimer

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. We will not be held liable for any damage resulting from handling or from contact with the above product.



**1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE SUPPLIER**

**1.1 Product Identifier**

Product name : RHINOZ Hybrid FX-55 ( Part B )

**1.2 Recommended use of the chemical and restrictions on use**

Recommended use : For filling joints and surface repairing such as cracks, splits on concrete surface

**1.3 Manufacturer or supplier's details**

Manufacturer : Blue Label Co.,Ltd.  
48/58 Moo.1 Ekachai Road, Khok-krabue,  
Amphur Muang, Samutsakhon, 74000 Thailand  
Telephone. +66 3449 4774-5 Telefax. +66 3449 4776

**1.4 Emergency telephone number**

Product information : +66 3449 4774-5

**2. HAZARDS IDENTIFICATION**

**2.1 GHS Classification of the substrate or mixture**

Skin corrosion/irritation : Category 1  
Serious eye damage/eye irritation : Category 1  
Skin sensitizer : Category 1  
Long-term hazards to the aquatic environment : Category 3

**2.2 GHS label elements**

**Pictograms**



**Signal word** : DANGER

**Hazard statements** :

H314 Cause severe skin burns and eye damage.  
H317 May cause an allergic skin reaction.  
H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements** : **Prevention**

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P264 Wash skin thoroughly after handling.  
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.

**Response**

P301+P330+P331+P312 IF SWALLOWED : Rinse mouth. Do not induce vomiting. Call a poison center/doctor if you fell unwell.  
P303+P361+P353 IF ON SKIN (or hair) : Remove/Take off immediately all contaminated clothing.



# SAFETY DATA SHEET

RHINOZ Hybrid FX-55 ( Part B )

Product code. RF-239

Revision date. 20/10/2020

P304+P340+P310	Rinse skin with water/shower. IF INHALED : Remove person to fresh air and keep comfortable for breathing. Call a poison center or doctor/physician if you feel unwell.
P305+P351+P338+P310	IF IN EYES : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor.
P333+P313	IF skin irritation or rash occurs : Get medical advice/attention.
P363	Wash contaminated clothing before reuse.
P391	Collect spillage.
	<b>Storage</b>
P405	Store locked up.
	<b>Disposal</b>
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

## 2.3 Other hazards which do not result in classification

None known

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substance : Not applicable

### 3.2 Mixture

Chemical name	CAS Number	% Weight
Polyoxypropylenediamine	9046-10-0	10 - 30
3-Aminomethyl-3,5,5-trimethylcyclohexylamine	2855-13-2	1 - 10
Benzyl alcohol	100-51-6	1 - 10
Calcium carbonate	471-34-1	40 - 70

## 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

Inhalation	: Remove person to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if you feel unwell.
Skin contact	: Immediately wash skin with soap and plenty of water. Remove and wash contaminated clothing before reuse. Get medical attention if irritation develops and persists.
Eye contact	: Immediately rinse eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses, if worn. Get medical attention immediately.
Ingestion	: If swallowed, do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with clean water and get medical attention immediately.

### 4.2 Most important symptoms and effects, both acute and delayed

Inhalation	: Irritations of the mucous membranes, coughing and dyspnoea.
Skin contact	: Causes severe skin burns. May cause an allergic skin reaction.



Eye contact : Causes serious eye damage and burns.  
Ingestion : Harmful if swallowed. Burns in mouth, throat and gastrointestinal tract.

#### **4.3 Indication of any immediate medical attention and special treatment needed**

Note to physicians : Treat symptomatically.

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

#### **5.1 Suitable extinguishing media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### **5.2 Specific hazards arising from the chemical**

Combustible. Development of hazardous combustion gases or vapours possible in the event of fire.

#### **5.3 Special protective equipment and precautions for fire-fighters**

In case of fire, firefighters should wear self-contained breathing apparatus (SCBA) and protective suit.

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

#### **6.1 Personal precautions**

Avoid contact with skin and eyes. Use appropriate personal protective equipment ( see section 8.)  
Isolate the hazard area and deny entry to unnecessary or unprotected personnel.

#### **6.2 Environmental precautions**

Prevent entry to sewers, ditches and waterways.

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

Collect spillage in a suitable container, seal securely for disposal according to local regulations.

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

#### **7.1 Precautions for safe handling**

Provide good ventilation. Do not breathe vapours or spray mist. Avoid contact with skin and eyes. Use appropriate personal protective equipment recommended in section 8 and wash thoroughly after handling.

#### **7.2 Conditions for safe storage, including any incompatibilities**

Store in a dry, cool and well-ventilated place, keep container tightly closed when not in use and protect from incompatible materials. Keep away from direct sunlight and heat, recommended storage is between 5<sup>o</sup>C to 40<sup>o</sup>C.

### **8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

#### **8.1 Control parameters**

No occupational exposure limit values established.

#### **8.2 Engineering controls**

Ensure adequate ventilation, especially in confined areas.



## SAFETY DATA SHEET

RHINOZ Hybrid FX-55 ( Part B )

Product code. RF-239

Revision date. 20/10/2020

### 8.3 Personal protective equipment (PPE)

- Skin protection : Wear chemical resistance gloves and appropriate protective clothing and boots.
- Eye protection : Wear chemical goggles and/or face shields.
- Respiratory protection : Wear the suitable mask when encounter concentrations of contaminants and there is inadequate ventilation.
- Hygiene measures : Wash hands before breaks and at the end of workday. Remove and wash contaminated clothing before re-use. When using do not eat, drink or smoke.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

- 9.1 Appearance : Black viscous
- 9.2 Odour : Amine odour
- 9.3 Odour threshold : No data available
- 9.4 pH : No data available
- 9.5 Melting point/freezing point : No data available
- 9.6 Boiling point/boiling range : No data available
- 9.7 Flash point : Noncombustible
- 9.8 Evaporation rate : No data available
- 9.9 Flammability (solid, gas) : No data available
- 9.10 Upper/Lower explosive limits : No data available
- 9.11 Vapour pressure : No data available
- 9.12 Vapour density : No data available
- 9.13 Relative density : 1.40 – 1.50
- 9.14 Solubility (in water) : No data available
- 9.15 Partition coefficient : n-octanol/water : No data available
- 9.16 Auto-ignition temperature : No data available
- 9.17 Decomposition temperature : No data available
- 9.18 Viscosity : No data available

## 10. STABILITY AND REACTIVITY

- 10.1 Reactivity : No dangerous reaction known under conditions of normal use.
- 10.2 Chemical stability : This product is stable under normal conditions of storage.
- 10.3 Possibility of hazardous reactions : Hazardous reactions will not occur.
- 10.4 Conditions to avoid : Heat, flames and sparks
- 10.5 Incompatible materials : Strong acids and strong oxidizing agents
- 10.6 Hazardous decomposition products : No data available

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on likely routes of exposure

Inhalation, skin contact, and eye contact



### 11.2 Symptoms related to the physical, chemical and toxicological characteristics

Inhalation	:	Irritations of the mucous membranes, coughing and dyspnoea.
Skin contact	:	Causes severe skin burns. May cause an allergic skin reaction.
Eye contact	:	Causes serious eye damage and burns.
Ingestion	:	Harmful if swallowed. Burns in mouth, throat and gastrointestinal tract.

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

Skin corrosion/irritation	:	Causes severe skin burns.
Serious eye damage/irritation	:	Causes serious eye damage.
Respiratory or skin sensitization	:	May cause an allergic skin reaction.
Gen cell mutagenicity	:	No data available
Carcinogenicity	:	No data available
Reproductive toxicity	:	No data available
STOT-Single exposure	:	No data available
STOT-Repeated exposure	:	No data available
Aspiration toxicity	:	No data available

### 11.4 Numerical measure of toxicity

Acute toxicity	:	No data available
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## 12. ECOLOGICAL INFORMATION

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