



Plastering Solution Application Guideline



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Product Tools & Equipment



RHINOZ product – Primer Bonding, RF-239 Hybrid FX-55 Base Coat & RF-102 Acrylic Skim Topcoat: Figure 1



RHINOZ Mixer: Figure 2



Drill for Mixing Product: Figure 3



Vacuum Unit: Figure 4



Tool Cleaning Product: Figure 5



Sanding Pad for use with 80 grit, for preparation of Base Coats and 150 grit for sanding Top Coats: Figure 6



10-15L Stirrer to Ensure Product to Edge of Pail is Mixed in: Figure 7



Roller, Tray & Brush for Application of RHINOZ Primer: Figure 8



Figure 8A



Rebate Mate: Figure 9



Humidity & Temperature Monitoring: Figure 10



Hawk: Figure 11



Scraper for Sharp Edge Removal on Rebates: Figure 12



100mm Broad Knife: Figure 13



Trowel: Figure 14



Sheet Rock Paper Edge Metal Trim: Figure 15



Sheet Rock Paper Tape: Figure 16



Mechanical Sanding Equipment with 150 Grit Sanding Pads for use with RHINOZ Acrylic Skim Topcoat: Figure 17

Environmental Conditions

Environmental condition management is required while conditioning the environment before application of RHINOZ product, during application of RHINOZ product and during the curing process for RHINOZ product.

Environment conditioning period to be 24 hours before application of RHINOZ product
Temperature to be at 15 - 50 degrees Celsius and humidity no exceeding 70%.

NOTE: Failure to maintain correct environmental conditions throughout the curing and drying process will establish performance impacts and impacts to decorative appearance.

Equipment required to establish and maintaining correct environmental conditions

Heating units with thermostat. Electric heating is preferred. Temperature and humidity recording device (figure 10).

Surface Preparation

NOTE: Magnum Board installation pre & post inspection check lists must be sighted before application of RHINOZ product begins. All surfaces must be thoroughly cleaned and free of dirt dust and grease.

Safety and Environmental Care

Personal Protection: Wear eye protection and dust mask when sanding, as product may cause eye irritation and inhalation of dust particles may cause respiratory irritation.

Clean-up

Slippery when spilled. Restrict access to area until clean-up is completed. When cleaning up spills use PPE. Collect and dispose of spilled material according to local regulations. Wash away remnants with liberal amounts of cold water.

Clean-up tools

Cleaning using thinner product (figure 5) after mixing. At the end of the day applications soak the paddle mixer in the thinner overnight.

Storage

Store in a cool dry well-ventilated location up from concrete floors and away from direct sunlight. Store away from strong acids and high moisture. Keep container lids in place and closed.

Application Method

Magnum Board Surface Preparation

All surfaces must be thoroughly cleaned and free of dirt, dust, and grease. Rebated joints to be vacuumed. Magnum Board surfaces can be wiped clean using a damp cloth.

Step one: Joint preparation applying primer

Pour the RF-143 RHINOZ Primer Bonding into the tray then apply along the joint area using brush or roller (figure 8). Primer must cover rebated joint width plus 50mm either side. Primer must be applied 80mm either side of the central joint area for wall to ceiling, internal corners, and external corner joints. Allow 30 minutes for primer to dry (figure 8A).

Rebated Joint RF-239 RHINOZ Hybrid FX-55

Step two: A volume of mixed RF-239 RHINOZ Hybrid FX-55 can be placed on hawk (figure 11) using a broad knife trowel (figure 13). Completely populate the rebate using the broad knife trowel using consistent pressure to ensure removal of air bubbles. Smooth off flush to top of rebate and remove product from Magnum Boards surface using trowel (figure 14). Allow 24 hours to cure.

Note: When mixed RF-239 RHINOZ Hybrid FX-55 will begin to cure. Application should be within 60 minutes.

Step three: Sand RF-239 RHINOZ Hybrid FX-55 using 80 grit sandpaper and block (figure 6). Sanding must include Magnum Board face where RF-239 RHINOZ Hybrid FX-55 particulate is visible. Correct sanding will have RF-239 RHINOZ Hybrid FX-55 surface keyed up and ready for application of RF-102 RHINOZ Acrylic Skim.

Step four: clean all surface dust from the sanded area using a vacuum (figure 4) and damp cloth.

Step five: a volume of RF-102 RHINOZ Acrylic Skim can be brought to the hawk (figure 11) using the broad knife (figure 13) and applied over RF-239 RHINOZ Hybrid FX-55 using the broad knife (figure 13) and consistent pressure. Smooth off the jointed area and either side using the trowel (figure 14) Thickness should be 500 microns.

Step six: apply a second layer of RF-102 RHINOZ Acrylic Skim using the broad knife feathering 75mm minimum either side of joint centre line. Allow 6 hours to cure.

Step seven: apply RF-102 RHINOZ Acrylic Skim using the broad knife (figure 13) over screw fixings positions. Note: where pin hole appearance in Magnum Board is visible RF-102 RHINOZ Acrylic Skim can be applied. Allow 6 hours to cure.

Step eight: lightly sand using 150 grit sandpaper and sanding pad or mechanical sanding equipment (figure 17).

Wall Internal Corners & Ceiling Junctions

Note: Application of RF-143 RHINOZ Primer refer joint preparation page 8.

Step one: Apply RF-102 RHINOZ Acrylic Skim to both sides of the wall to ceiling junctions and internal wall junctions using broad knife (figure 13) Continuous force must be applied to fill voids.

Step two: Apply Sheet Rock paper tape (figure 16).

Step three: Apply a layer of RF-102 RHINOZ Acrylic Skim over the paper tape using the broad knife. Allow 6 hours to cure.

Step four: Smooth off RF-102 RHINOZ Acrylic Skim surface using 150 grit sandpaper.

Step five: Apply a second layer of RF-102 RHINOZ Acrylic Skim using the broad knife feathering 50mm either side of paper tape. Allow 6 hours to cure.

Step six: Lightly sand using 150 grit sandpaper and sanding pad or mechanical sanding equipment (figure 17).

External Corners

Note: Application of RF-143 RHINOZ Primer refer joint preparation page 8.

Step one: Apply a layer of RF-102 RHINOZ Acrylic Skim to both sides of corner junction using continuous force to fill voids using a broad knife.

Step two: Install Sheet Rock Crack Free Paper Based Metal Trim (figure 15) over RF-102 RHINOZ Acrylic Skim.

Step three: Apply first layer of RF-102 RHINOZ Acrylic Skim over Sheet Rock Crack Free Paper Based Metal Trim using broad knife (figure 13) feathering 50mm outside metal trim. Allow 6 hours to cure.

Step four: Lightly sand RF-102 RHINOZ Acrylic Skim using 150 grit sandpaper and sanding pad or mechanical sanding equipment (figure 17).

Step five: Apply RF-102 RHINOZ Acrylic Skim feathering approximately 50mm beyond the previous coat. Allow 6 hours to cure then lightly sand using 150 grit sandpaper and sanding pad or mechanical sanding equipment (figure 17).

Step six: Lightly sand ready for painting using 150 grit sandpaper and sanding pad or mechanical sanding equipment (figure 17).

Storage

Store up from concrete floors in environmental conditions with temperatures above freezing and below 50 degrees Celsius.

Cleaning

RF-102 RHINOZ Acrylic Skim can be removed from application tools using detergent and warm water.

RF-239 RHINOZ Hybrid FX-55 can be removed from application tools and mixing tools using Methylated Spirits (figure 5).

Rhinoz Preparation

Prepare RHINOZ product away from direct sunlight in environmental conditions required at time of application.

Mixing RF-239 RHINOZ Hybrid FX-55

Rhinoz Hybrid FX-55 is separated within the pale as part A (white) and part B (black), they must be mixed thoroughly to a homogenous state of consistent colouration using the mixing.

Step one: Combine part A with part B using a spatula.



Step two: Mix in a circular and up and down motion using the power drill and mixer (figures 2 & 3). Ensure product around the edge and bottom of pale is included using paint stirrer. Mix until product A & B are homogenous in one grey colour.

NOTE: The Mixer in figure 2 must be used.



Mixing



Additional mixing required



Mixing progressing to completion.



Mixing complete with homogenous colour and product from outer edge of pales mixed in.

[Video: Mixing & Cleaning Process of RHINOZ RF-239 Hybrid FX-55](#)

Pre-Inspection-Checklist

Plastering Magnum Board with RHINOZ

Company Name:	
Address:	
Name of contractor:	
Date:	

Environmental conditions: Temperature maintained between 15-50°Celsius. Humidity below 70%	
Product mixed correctly and conditioned to room temperature	
Product positioned away from contact with concrete floors	
Timber framing moisture content has been confirmed by local council inspection at no higher than 18%	
Magnum Board surface cleaned; joints primed	
Equipment on site to maintain correct environmental conditions	
Health and Safety plan in place	
Required tools and equipment	

Post-Checklist

Company Name:	
Address:	
Name of contractor:	
Date:	

Plastering process has been completed to the required standard and considered ready for application of paint	
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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



SAFETY DATA SHEET

RHINOZ Primer Bonding

Product code. RF-143

Revision date. 20/01/2017

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

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 ³
		OSHA PEL	TWA (total dust)	15 mg/m ³
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

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 – 1.60
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 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,



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	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.
	Disposal
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^oC to 40^oC.

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.



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- 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.



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.
	Storage
P405	Store locked up.
	Disposal
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^oC to 40^oC.

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.



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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

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 of MAROL 73/78 and IBC code	:	Not required



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

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Reason for revision : Updated information compliant with GHS standard

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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

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