# SAFETY DATA SHEET 231 Water Emulsion Primer/Sealer Hardener -

Part B

| r art D   |  |                |   |   |  |  |
|---|--|----------------|---|---|--|--|
|   | E <mark>alth</mark><br>.ammabilit<br>Hysical<br>Pe | 3              | Amability<br>Instability<br>Instability<br>Special Hazard | Printed: 10/12/2015<br>Revision: 10/12/2015 |  |  |
| 1. Pro  | duct and   | Company        | / Identification  |   |  |  |
| Product Code:   | 231-B  |                |   |   |  |  |
| Product Name:   | 231 Water Er                                       | mulsion Primei | /Sealer Hardener - Part B                                 |   |  |  |
| Trade Name:   | 231 Water Er                                       | mulsion Primei | /Sealer Hardener - Part B                                 |   |  |  |
| Manufacturer Information                                |  |                |   |   |  |  |
| Company Name:   | Epoxy Syster                                       | ns. Inc.       |   |   |  |  |
|   |  | nnsylvania Ave | 1   |   |  |  |
|   | Dunnellon, Fl                                      | -              |   |   |  |  |
| Phone Number:   |  |                |   |   |  |  |
|   | +1 (352) 489                                       |                | (000) 000 0050  |   |  |  |
| Emergency Contact:                                      | PERS (USA)   |                | (800) 633-8253  |   |  |  |
| Alternate Emergency Contact:                            | PERS (Intern                                       | ational)       | +1 (801) 629 0667   |   |  |  |
|   | 2. Haza  | rds Identif    | fication  |   |  |  |
| GHS Classification                                      | Placard  | Key word       | GHS hazard phrase   |   |  |  |
| Skin Sensitization, Category 1B                         | Exclamation<br>point                               | Warning        | May cause an allergic skin reac                           | tion  |  |  |
| Skin Corrosion/Irritation, Category 1B                  | Corrosive  | Danger         | Causes severe skin burns and e                            | eye damage                                  |  |  |
| Serious Eye Damage/Eye Irritation, Category 1           | Corrosive  | Danger         | Causes serious eye damage                                 |   |  |  |
| Acute Toxicity: Oral, Category 4                        | Exclamation  | Warning        | Harmful if swallowed                                      |   |  |  |
| GHS Hazard Phrases                                      | point  |                |   |   |  |  |
| H317 - May cause an allergic skin                       | reaction   |                |   |   |  |  |
| H314 - Causes severe skin burns a                       |  | Je.            |   |   |  |  |
| H302 - Harmful if swallowed.                            | ind by b duining                                   |                |   |   |  |  |
| H335 - May cause respiratory irrit                      | ation.   |                |   |   |  |  |
| GHS Precaution Phrases                                  |  |                |   |   |  |  |
| P262 - Do not get in eyes, on skir                      | ı, or on clothi                                    | ng.            |   |   |  |  |
| P261 - Avoid breathing dust/fume/gas/mist/vapors/spray. |  |                |   |   |  |  |
| P280 - Wear protective gloves/pro                       |  |                | on/face protection.                                       |   |  |  |
| GHS Response Phrases                                    |  | 0 - j - r      | <b>r</b>  |   |  |  |
| P302 - IF ON SKIN: P362 - Take                          |  | -              | P353 - Rinse skin with water/sh                           | nower. P333+313 - If                        |  |  |
| skin irritation or rash occurs, seek                    |  |                |   |   |  |  |
| P305+351+338 - IF IN FYFS · Rin                         | ase cautiously                                     | with water for | several minutes Remove con                                | tact lenses if present                      |  |  |

P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P311 - Call a POISON CENTER or doctor/physician.

P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

# **GHS Storage and Disposal Phrases**

P501 - Dispose of contents/container to local, state, and federal authority requirements.

# Potential Health Effects (Acute and Chronic)

Corrosive! Damages skin and eyes.

Inhalation: Vapors are irritating to the respiratory system, may cause throat pain and cough.

Harmful if swallowed. This product may produce corrosive damage to the gastrointestinal tract if it is swallowed. Ingestion may produce burns to the lips, oral cavity, upper airway, esophagus and possibly the digestive tract.

# Inhalation

May cause respiratory irritation.

## Skin Contact

Causes severe skin irritation. Causes skin burns.

# **Eye Contact**

Corrosive/irritation to eyes. Causes eye burns.

## Ingestion

Harmful if swallowed.

## **Recommended Exposure Limits**

Not established.

# Medical Conditions Generally Aggravated By Exposure

Skin disorders, Respiratory disorders, Eye disorders, Skin Allergies.

# **OSHA Regulatory Status:**

This material is classified as hazardous under OSHA regulations.

# 3. Composition/Information on Ingredients

|   | На | zardous Components (Chemical Name)          | CAS #      | Concentration |
|---|----|---|------------|---------------|
|   | 1. | Aliphatic Polyamine (Trade Secret)          | NA         | 20 - 30 %     |
|   | 2. | 2-Propenenitrile, reaction products with    | 90530-15-7 | 1.0 - 10 %    |
|   |    | 3-amino-1,5,5-trimethylcyclohexanemethanami |            |               |
|   |    | ne  |            |               |
|   | 3. | Isophoronediamine                           | 2855-13-2  | 1.0 - 5.0 %   |
|   | 4. | 1,3-Benzenedimethanamine                    | 1477-55-0  | 1.0 - 5.0 %   |
| 1 |    |   |            |               |

# 4. First Aid Measures

### **Emergency and First Aid Procedures**

# In Case of Inhalation

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If experiencing respiratory symptoms: Get medical attention immediately.

### In Case of Skin Contact

In case of contact, immediately wash skin with soap and copious amounts of water. Remove contaminated clothing and shoes. Get medical attention if irritation develops or persists.

#### In Case of Eye Contact

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Get medical attention immediately.

#### In Case of Ingestion

If swallowed, wash out mouth with water provided person is conscious. Do not induce vomiting. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Get medical attention immediately.

## Signs and Symptoms Of Exposure

Eyes: Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.

Skin: Can cause severe skin burns. Symptoms may include redness, edema, drying, defatting and cracking of the skin.

Inhalation: Vapors are irritating to the respiratory system, may cause throat pain and cough.

# SAFETY DATA SHEET

231 Water Emulsion Primer/Sealer Hardener -

| S. Fire Fighting Measures           Flash Pt:         > 212.00 F         Method Used:         Pensky-Marten Closed Cup           Explosive Limits:         LEL: NE         UEL: NE           Autoignition Pt:         No data available.         Fire Fighting Instructions           Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.         Flammable Properties and Hazards           Product is not considered a fire hazard. Closed containers may rupture (due to build up in pressure) when expose to extreme heat.         Hazardous Combustion Products           In a fire, product may produce the following: Carbon monoxide, Carbon dioxide, Fire may produce irritating, corrosive and/or toxic gases.         Suitable Extinguishing Media           Do not use a direct water stream, which may spread fire.         Concentration Case Material Is Released Or Spilled           PROCECIDURE TO BE FOLLOWED IN CASE OF LEAK OR SPILL.         Absorb with sand or verniculite and place in closed containers for disposal. Ventilate the area.           Protective Precautions, Protective Equipment and Emergency Procedures         Wear respirator, chemical safety oggels, subber book, and heavy rubber gloves. Where splashing is possible, ful chemically resistant protective clothing, and boots are required.           Environmental Precautions         The Handling and Storage           Proved tarty with eyes. Do not get on skin and clothing. Avoid inhalation of vapor or mist. Store in a closed container.           Precauti  | 251 Wa  |                | Part B          | 1/Sealer Harueller -           | Revision: 10/12/2015      |  |  |
|--|---|----------------|-----------------|--------------------------------|---------------------------|--|--|
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| Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.         Flammable Properties and Hazards         Product is not considered a fire hazard. Closed containers may rupture (due to build up in pressure) when exposed to extreme heat.         Hazardous Combustion Products         In a fire, product may produce the following: Carbon monoxide, Carbon dioxide, Fire may produce irritating, corrosive and/or toxic gases.         Suitable Extinguishing Media         Dry chemical, CO2 or water spray.         Unsuitable Extinguishing Media         Do not use a direct water stream, which may spread fire.         Steps To Be Taken In Case Material Is Released Or Spilled         PROCEDURE: TO BE FOLLOWED IN CASE OF LEAK OR SPILL.         Absorb with sand or vermiculite and place in closed containers for disposal. Ventilate the area.         Protective Precautions, Protective Equipment and Emergency Procedures         Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves. Where splashing is possible, full chemically resistant protective clothing, and boots are required.         Environmental Precautions         Prevent entry into waterways, sewers, basements or confined areas.         Precautions To Be Taken in Handling         Provide adequate ventilation. Wear all personal protection required in section 8.         Precautions To Be Taken in Handling.         Provide adequate ventilation. Wear all personal protect  | -   |                |                 |                                |                           |  |  |
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| Suitable Extinguishing Media       Dry chemical, CO2 or water spray.         Unsuitable Extinguishing Media       Do not use a direct water stream, which may spread fire.         6. Accidental Release Measures         Steps To Be Taken In Case Material is Released Or Spilled         PROCEDURE TO BE FOLLOWED IN CASE OF LEAK OR SPILL.         Absorb with sand or vermiculite and place in closed containers for disposal. Ventilate the area.         Protective Precautions, Protective Equipment and Emergency Procedures         Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves. Where splashing is possible, ful chemically resistant protective clothing, and boots are required.         Environmental Precautions         Prevent entry into waterways, sewers, basements or confined areas.         Prevent entry into waterways, sewers, basements or confined areas.         Precautions To Be Taken in Handling         Provide adequate ventilation. Wear all personal protection required in section 8.         Precautions To Be Taken in Handling         Reep container tightly closed in a dry and well-ventilated place. Store away from incompatible material. Keep from freezing.         Other Precautions         Wash thoroughly after handling.         Wash thoroughly after handling.         Wash thoroughly after handling. <t< td=""><td>In a fire, product may produce the f</td><td>ollowing: Ca</td><td>rbon monoxid</td><td>e, Carbon dioxide, Fire may</td><td>produce irritating,</td></t<>  | In a fire, product may produce the f  | ollowing: Ca   | rbon monoxid    | e, Carbon dioxide, Fire may    | produce irritating,       |  |  |
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| Unsuitable Extinguishing Media <ul> <li>Do not use a direct water stream, which may spread fire.</li> </ul> <ul> <li>A Ccidental Release Measures</li> </ul> Steps To Be Taken In Case Material Is Released Or Spilled <ul> <li>PROCEDURE TO BE FOLLOWED IN CASE OF LEAK OR SPILL.             <ul></ul></li></ul>   |   |                |                 |                                |                           |  |  |
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| 6. Accidental Release Measures         Steps To Be Taken In Case Material Is Released Or Spilled<br>PROCEDURE TO BE FOLLOWED IN CASE OF LEAK OR SPILL.<br>Absorb with sand or vermiculite and place in closed containers for disposal. Ventilate the area.         Protective Precautions, Protective Equipment and Emergency Procedures<br>Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves. Where splashing is possible, ful<br>chemically resistant protective clothing, and boots are required.         Environmental Precautions<br>Prevent entry into waterways, sewers, basements or confined areas. <b>7. Handling and Storage</b> Hazard Label Information:<br>Avoid contact with eyes. Do not get on skin and clothing. Avoid inhalation of vapor or mist. Store in a<br>closed container.         Precautions To Be Taken in Handling<br>Provide adequate ventilation. Wear all personal protection required in section 8. <b>Recautions To Be Taken in Storing</b><br>Keep container tightly closed in a dry and well-ventilated place. Store away from incompatible material. Keep<br>from freezing. <b>Other Precautions</b><br><b>8. Exposure Controls/Personal Protection ACGIH TWA</b> Other Limit<br>1. Aliphatic Polyamine (Trade Secret)<br>NA No data. No data. No data.         A Stata         ACGIH TWA         Other Iring <b>ACGIH TWA</b> No data.         NA No data. No data.         A Stata       No data.   |   |                | 1.07            |                                |                           |  |  |
| Steps To Be Taken In Case Material Is Released Or Spilled<br>PROCEDURE TO BE FOLLOWED IN CASE OF LEAK OR SPILL.<br>Absorb with sand or vermiculite and place in closed containers for disposal. Ventilate the area.         Protective Precautions, Protective Equipment and Emergency Procedures<br>Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves. Where splashing is possible, ful<br>chemically resistant protective clothing, and boots are required.         Environmental Precautions<br>Prevent entry into waterways, sewers, basements or confined areas.         7. Handling and Storage         Hazard Label Information:<br>Avoid contact with eyes. Do not get on skin and clothing. Avoid inhalation of vapor or mist. Store in a<br>closed container.         Precautions To Be Taken in Handling<br>Provide adequate ventilation. Wear all personal protection required in section 8.         Precautions To Be Taken in Storing<br>Keep container tightly closed in a dry and well-ventilated place. Store away from incompatible material. Keep<br>from freezing.         Other Precautions<br>Wash thoroughly after handling.         Wash thoroughly after handling.         1. Aliphatic Polyamine (Trade Secret)         NA       No data.         2. 2-Propenenitrile, reaction products with<br>3-amino-1,5,5-trimethylcyclohexanemethanami<br>ne       2855-13-2         3. Isophoronediamine       2855-13-2       No data.       No data.  | · · · · · · · · · · · · · · · · · · ·   |                |                 |                                |                           |  |  |
| PROCEDURE TO BE FOLLOWED IN CASE OF LEAK OR SPILL.         Absorb with sand or vermiculite and place in closed containers for disposal. Ventilate the area.         Protective Precautions, Protective Equipment and Emergency Procedures         Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves. Where splashing is possible, ful chemically resistant protective clothing, and boots are required.         Environmental Precautions         Prevent entry into waterways, sewers, basements or confined areas. <b>7. Handling and Storage</b> Hazard Label Information:         Avoid contact with eyes.       Do not get on skin and clothing. Avoid inhalation of vapor or mist. Store in a closed container.         Precautions To Be Taken in Handling         Provide adequate ventilation. Wear all personal protection required in section 8.         Precautions To Be Taken in Storing         Keep container tightly closed in a dry and well-ventilated place. Store away from incompatible material. Keep from freezing.         Other Precautions         Wash thoroughly after handling.         Wash thoroughly after handling.         No data.       No data.         No data.       No data.         Alphatic Polyamine (Trade Secret)       NA         No data.       No data.         Apropenentrifie, reaction products with 3-3-amino-1,5,5-trimethylogolohexanemethanamin ne         3. [sophoronediamine  |   |                |                 | Measures                       |                           |  |  |
| Absorb with sand or vermiculite and place in closed containers for disposal. Ventilate the area. Protective Precautions, Protective Equipment and Emergency Procedures Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves. Where splashing is possible, ful chemically resistant protective clothing, and boots are required. Environmental Precautions Prevent entry into waterways, sewers, basements or confined areas. Prevent entry into waterways, sewers, basements or confined areas. Prevent entry into waterways, sewers, basements or confined areas. Prevent entry into waterways, sewers, basements or confined areas. Precautions To Be Taken in Handling Provide adequate ventilation. Wear all personal protection required in section 8. Precautions To Be Taken in Storing Keep container tightly closed in a dry and well-ventilated place. Store away from incompatible material. Keep from freezing. Other Precautions Wash thoroughly after handling. Mash thoroughly after handling. Alphatic Polyamine (Trade Secret) NA No data.  |   |                |                 |                                |                           |  |  |
| Protective Precautions, Protective Equipment and Emergency Procedures         Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves. Where splashing is possible, ful chemically resistant protective clothing, and boots are required.         Environmental Precautions         Prevent entry into waterways, sewers, basements or confined areas.         T. Handling and Storage         Hazard Label Information:         Avoid contact with eyes.       Do not get on skin and clothing. Avoid inhalation of vapor or mist. Store in a closed container.         Precautions To Be Taken in Handling         Precautions To Be Taken in Storing         Keep container tightly closed in a dry and well-ventilated place. Store away from incompatible material. Keep from freezing.         Other Precautions         B. Exposure Controls/Personal Protection         Wash thoroughly after handling.         Wash thoroughly after handling.         Accord components (Chemical Name)       CAS #         OSM Precautions       No data.         No data.       No data.         No data.       No data.         Propenentrific, reaction products with       90530-15-7         No data.       No data.         No data.       No data.         Supphoronediamine       2855-13-2       No data.       No data. <td></td> <td></td> <td></td> <td></td> <td>***</td>  |   |                |                 |                                | ***                       |  |  |
| Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves. Where splashing is possible, full chemically resistant protective clothing, and boots are required.         Environmental Precautions         Prevent entry into waterways, sewers, basements or confined areas.         7. Handling and Storage         Hazard Label Information:         Avoid contact with eyes. Do not get on skin and clothing. Avoid inhalation of vapor or mist. Store in a closed container.         Precautions To Be Taken in Handling         Provide adequate ventilation. Wear all personal protection required in section 8.         Precautions To Be Taken in Storing         Keep container tightly closed in a dry and well-ventilated place. Store away from incompatible material. Keep from freezing.         Other Precautions         Wash thoroughly after handling.         Wash thoroughly after handling.         1. Aliphatic Polyamine (Trade Secret)         NA       No data.       No data.         2. 2-Propenenitrile, reaction products with       90530-15-7       No data.       No data.         3. amino-1,5,5-trimethylocyclohexanemethanami ne       3455-13-2       No data.       No data.       No data.  |   | -              |                 | -                              | iea.                      |  |  |
| chemically resistant protective clothing, and boots are required. Environmental Precautions Prevent entry into waterways, sewers, basements or confined areas.  Prevent entry into waterways, sewers, basements or confined areas.  Avoid contact with eyes. Do not get on skin and clothing. Avoid inhalation of vapor or mist. Store in a closed container.  Precautions To Be Taken in Handling Provide adequate ventilation. Wear all personal protection required in section 8.  Precautions To Be Taken in Storing Keep container tightly closed in a dry and well-ventilated place. Store away from incompatible material. Keep from freezing.  Other Precautions Wash thoroughly after handling. Ma No data.   |   |                |                 |                                | lashing is possible full  |  |  |
| Environmental Precautions          Prevent entry into waterways, sewers, basements or confined areas.         Image: Sevent entry into waterways, sewers, basements or confined areas.         Prevent entry into waterways, sewers, basements or confined areas.         Hazard Label Information:          Avoid contact with eyes. Do not get on skin and clothing. Avoid inhalation of vapor or mist. Store in a closed container.         Precautions To Be Taken in Handling          Provide adequate ventilation. Wear all personal protection required in section 8.         Precautions To Be Taken in Handling         Keep container tightly closed in a dry and well-ventilated place. Store away from incompatible material. Keep from freezing.         Other Precautions         Wash thoroughly after handling.         Mazardous Components (Chemical Name)       CAS #       OSHA PEL       ACGIH TWA       Other Limit         1. Aliphatic Polyamine (Trade Secret)       NA       No data.       No data.       No data.         2. 2-Propenentirile, reaction products with       90530-15-7       No data.       No data.       No data.         3. Isophoronediamine       2855-13-2       No data.       No data.       No data.   | · · ·   |                |                 |                                | lashing is possible, full |  |  |
| Prevent entry into waterways, sewers, basements or confined areas. <b>Flandling and Storage</b> Hazard Label Information:         Avoid contact with eyes.       Do not get on skin and clothing.       Avoid inhalation of vapor or mist.       Store in a closed container.         Precautions To Be Taken in Handling         Provide adequate ventilation. Wear all personal protection required in section 8.         Precautions To Be Taken in Storing         Keep container tightly closed in a dry and well-ventilated place. Store away from incompatible material. Keep from freezing.         Other Precautions         Wash thoroughly after handling.         Wash thoroughly after handling.         ACGIH TWA       Other Limit         1.       Aliphatic Polyamine (Trade Secret)       NA       No data.       No data.       No data.         2.       2-Propenenitrile, reaction products with       90530-15-7       No data.       No data.       No data.         3.       Isophoronediamine       2855-13-2       No data.       No data.       No data.       No data.   | · ·   | ing, and boo   | ts are required | ••                             |                           |  |  |
| 7. Handling and Storage         Hazard Label Information:         Avoid contact with eyes.       Do not get on skin and clothing.       Avoid inhalation of vapor or mist.       Store in a closed container.         Precautions To Be Taken in Handling         Provide adequate ventilation. Wear all personal protection required in section 8.         Precautions To Be Taken in Handling         Precautions To Be Taken in Storing         Keep container tightly closed in a dry and well-ventilated place. Store away from incompatible material. Keep from freezing.         Other Precautions         Wash thoroughly after handling.         ACS # OSHA PEL       ACGIH TWA Other Limit         1. Aliphatic Polyamine (Trade Secret)       NA       No data.       No data.       No data.         2. 2-Propenenitrile, reaction products with 3-armino-1,5,5-trimethylcyclohexanemethanami ne       30530-15-7       No data.       No data.       No data.       No data.         3. Isophoronediamine       2855-13-2       No data.       No data.       No data.       No data.   |   | rs, basements  | or confined a   | reas.                          |                           |  |  |
| Hazard Label Information:       Avoid contact with eyes. Do not get on skin and clothing. Avoid inhalation of vapor or mist. Store in a closed container.         Precautions To Be Taken in Handling       Provide adequate ventilation. Wear all personal protection required in section 8.         Precautions To Be Taken in Storing       Keep container tightly closed in a dry and well-ventilated place. Store away from incompatible material. Keep from freezing.         Other Precautions       Wash thoroughly after handling.         Hazardous Components (Chemical Name)       CAS #       OSHA PEL       ACGIH TWA       Other Limit.         1. Aliphatic Polyamine (Trade Secret)       NA       No data.       No data.       No data.         2. 2-Propenenitrile, reaction products with 3-amino-1,5,5-trimethylcyclohexanemethanami ne       3. Isophoronediamine       2855-13-2       No data.       No data.       No data.       No data.   | • •   |                |                 |                                |                           |  |  |
| closed container.  Precautions To Be Taken in Handling  Provide adequate ventilation. Wear all personal protection required in section 8.  Precautions To Be Taken in Storing  Keep container tightly closed in a dry and well-ventilated place. Store away from incompatible material. Keep from freezing.  Other Precautions Wash thoroughly after handling.  Keep container tightly closed in a dry and well-ventilated place. Store away from incompatible material. Keep from freezing.  Other Precautions Wash thoroughly after handling.  Keep container tightly closed in a dry and well-ventilated place. Store away from incompatible material. Keep from freezing.  Other Precautions Wash thoroughly after handling.  Keep container tightly closed in a dry and well-ventilated place. Store away from incompatible material. Keep from freezing.  Other Precautions Wash thoroughly after handling.  Keep container tightly closed in a dry and well-ventilated place. Store away from incompatible material. Keep from freezing.  Other Precautions Wash thoroughly after handling.  Keep container tightly closed in a dry and well-ventilated place. Store away from incompatible material. Keep from freezing.  Other Precautions Wash thoroughly after handling.  Keep container tightly closed in a dry and well-ventilated place. Store away from incompatible material. Keep from freezing.  Other Precautions Keep container tightly closed in a dry and well-ventilated place. Store away from incompatible material. Keep from freezing.  Other Precautions Keep controls/Personal Protection  Keep container tightly closed in a dry and well-ventilated place. No data. No dat   |   |                | <u> </u>        |                                |                           |  |  |
| Precautions To Be Taken in Handling         Provide adequate ventilation. Wear all personal protection required in section 8.         Precautions To Be Taken in Storing         Keep container tightly closed in a dry and well-ventilated place. Store away from incompatible material. Keep from freezing.         Other Precautions         Wash thoroughly after handling.         Kazardous Components (Chemical Name)       CAS #       OSHA PEL       ACGIH TWA       Other Limit         1.       Aliphatic Polyamine (Trade Secret)       NA       No data.       No data.       No data.         2.       2-Propenenitrile, reaction products with 3-armino-1,5,5-trimethylcyclohexanemethanami ne       90530-15-7       No data.       No data.       No data.         3.       Isophoronediamine       2855-13-2       No data.       No data.       No data.  | Avoid contact with eyes. Do not   | get on skin a  | nd clothing.    | Avoid inhalation of vapor or   | r mist. Store in a        |  |  |
| Provide adequate ventilation. Wear all personal protection required in section 8.         Precautions To Be Taken in Storing<br>Keep container tightly closed in a dry and well-ventilated place. Store away from incompatible material. Keep from freezing.         Other Precautions<br>Wash thoroughly after handling.         Exposure Controls/Personal Protection         Hazardous Components (Chemical Name)       CAS #       OSHA PEL       ACGIH TWA       Other Limits         1.       Aliphatic Polyamine (Trade Secret)       NA       No data.       No data.       No data.         2.       2-Propenenitrile, reaction products with<br>ne       90530-15-7       No data.       No data.       No data.         3.       Isophoronediamine       2855-13-2       No data.       No data.       No data.   | closed container.   |                |                 |                                |                           |  |  |
| Precautions To Be Taken in Storing<br>Keep container tightly closed in a dry and well-ventilated place. Store away from incompatible material. Keep<br>from freezing.         Other Precautions<br>Wash thoroughly after handling.         B. Exposure Controls/Personal Protection         Hazardous Components (Chemical Name)       CAS #       OSHA PEL       ACGIH TWA       Other Limit         1.       Aliphatic Polyamine (Trade Secret)       NA       No data.       No data.       No data.         2.       2-Propenentirile, reaction products with<br>ne       90530-15-7       No data.       No data.       No data.       No data.         3.       Isophoronediamine       2855-13-2       No data.       No data.       No data.       No data.  | Precautions To Be Taken in Handling   |                |                 |                                |                           |  |  |
| Keep container tightly closed in a dry and well-ventilated place. Store away from incompatible material. Keep from freezing.         Other Precautions         Wash thoroughly after handling. <b>Exposure Controls/Personal Protection ACGIH TWA</b> Other Limit:         1.       Aliphatic Polyamine (Trade Secret)       NA       No data.       No data.       No data.         2.       2-Propenenitrile, reaction products with new       90530-15-7       No data.       No data.       No data.         3.       Isophoronediamine       2855-13-2       No data.       No data.       No data.   | Provide adequate ventilation. Wear  | all personal p | protection requ | ired in section 8.             |                           |  |  |
| from freezing.<br>Other Precautions<br>Wash thoroughly after handling.<br><b>8. Exposure Controls/Personal Protection</b><br>Hazardous Components (Chemical Name) CAS # OSHA PEL ACGIH TWA Other Limit:<br>1. Aliphatic Polyamine (Trade Secret) NA No data. No data. No data.<br>2. 2-Propenenitrile, reaction products with 90530-15-7 No data. No data. No data.<br>3. amino-1,5,5-trimethylcyclohexanemethanami ne 2855-13-2 No data. No data. No data. No data.   | Precautions To Be Taken in Storing  |                |                 |                                |                           |  |  |
| Other Precautions         Wash thoroughly after handling. <b>8. Exposure Controls/Personal Protection</b> Hazardous Components (Chemical Name)       CAS #       OSHA PEL       ACGIH TWA       Other Limits         1. Aliphatic Polyamine (Trade Secret)       NA       No data.       No data.       No data.         2. 2-Propenenitrile, reaction products with armino-1,5,5-trimethylcyclohexanemethanami ne       90530-15-7       No data.       No data.       No data.         3. Isophoronediamine       2855-13-2       No data.       No data.       No data.   | Keep container tightly closed in a dry and well-ventilated place. Store away from incompatible material. Keep |                |                 |                                |                           |  |  |
| Wash thoroughly after handling.         S. Exposure Controls/Personal Protection         Hazardous Components (Chemical Name)       CAS #       OSHA PEL       ACGIH TWA       Other Limits         1.       Aliphatic Polyamine (Trade Secret)       NA       No data.       No data.       No data.         2.       2-Propenenitrile, reaction products with 3-amino-1,5,5-trimethylcyclohexanemethanami ne       90530-15-7       No data.       No data.       No data.         3.       Isophoronediamine       2855-13-2       No data.       No data.       No data.   |   |                |                 |                                |                           |  |  |
| 8. Exposure Controls/Personal Protection         Hazardous Components (Chemical Name)       CAS #       OSHA PEL       ACGIH TWA       Other Limits         1. Aliphatic Polyamine (Trade Secret)       NA       No data.       No data.       No data.         2. 2-Propenenitrile, reaction products with 3-amino-1,5,5-trimethylcyclohexanemethanami ne       90530-15-7       No data.       No data.       No data.         3. Isophoronediamine       2855-13-2       No data.       No data.       No data.   |   |                |                 |                                |                           |  |  |
| Hazardous Components (Chemical Name)       CAS #       OSHA PEL       ACGIH TWA       Other Limits         1. Aliphatic Polyamine (Trade Secret)       NA       No data.       No data.       No data.         2. 2-Propenenitrile, reaction products with 3-amino-1,5,5-trimethylcyclohexanemethanami ne       90530-15-7       No data.       No data.       No data.         3. Isophoronediamine       2855-13-2       No data.       No data.       No data.  | Wash thoroughly after handling.   |                |                 |                                |                           |  |  |
| 1.Aliphatic Polyamine (Trade Secret)NANo data.No data.No data.2.Propenenitrile, reaction products with<br>3-amino-1,5,5-trimethylcyclohexanemethanami<br>ne90530-15-7No data.No data.No data.3.Isophoronediamine2855-13-2No data.No data.No data.  |   |                |                 |                                |                           |  |  |
| 2.       2-Propenenitrile, reaction products with 3-amino-1,5,5-trimethylcyclohexanemethanami ne       90530-15-7       No data.       No data.       No data.         3.       Isophoronediamine       2855-13-2       No data.       No data.       No data.   |   |                |                 |                                | Other Limits              |  |  |
| 3-amino-1,5,5-trimethylcyclohexanemethanami         ne         3. Isophoronediamine       2855-13-2       No data.       No data.  |   |                |                 |                                |                           |  |  |
| ne<br>3. Isophoronediamine 2855-13-2 No data. No data. No data.  |   | 90530-15-7     | ino data.       | No data.                       | No data.                  |  |  |
|  |   |                |                 |                                |                           |  |  |
| 4 1 3-Benzenedimethanamine 1477-55-0 No data CEII - ma/m3 No data  |   | 2855-13-2      | No data.        | No data.                       | No data.                  |  |  |
| T. 1,5 Benzendenneanananine 1477-55-0 No data. OEIL. Ing/II5 NO data.  | 4. 1,3-Benzenedimethanamine   | 1477-55-0      | No data.        | CEIL: mg/m3                    | No data.                  |  |  |

# SAFETY DATA SHEET 231 Water Emulsion Primer/Sealer Hardener -Part B

# **Protective Equipment Summary - Hazard Label Information:**

Neoprene gloves Safety glasses, or goggles. Impervious clothing. Chemical resistant boots

# Respiratory Equipment (Specify Type)

Normally when good engineering controls are used, no respiratory protection is needed. However, if cured product is abraded by sanding or grinding use a NIOSH approved air-purifying respirator. Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator. A NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

# **Eye Protection**

Safety glasses, or goggles.

# **Protective Gloves**

Nitrile rubber and Neoprene are recommended.

# **Other Protective Clothing**

Where splashing is possible, full chemically resistant protective clothing, safety glasses or face shield and boots are required.

# **Engineering Controls (Ventilation etc.)**

Good general ventilation should be sufficient to control airborne levels. Safety shower and eye bath.

# Work/Hygienic/Maintenance Practices

Wash contaminated clothing before reuse. Discard contaminated shoes. Wash thoroughly after handling.

# **Environmental Exposure Controls**

Avoid runoff into storm sewers and ditches which lead to waterways.

| 9. Physical and Chemical Properties |  |  |  |  |
|-------------------------------------|--|--|--|--|
| Physical States:                    | []Gas [X]Liquid []Solid                          |  |  |  |
| Melting Point:                      | NE   |  |  |  |
| Boiling Point:                      | NE   |  |  |  |
| Decomposition Temperature:          | NE   |  |  |  |
| Autoignition Pt:                    | No data.   |  |  |  |
| Flash Pt:                           | > 212.00 F Method Used: Pensky-Marten Closed Cup |  |  |  |
| Explosive Limits:                   | LEL: NE UEL: NE                                  |  |  |  |
| Specific Gravity (Water = 1):       | ~ 1.03 - 1.04                                    |  |  |  |
| Density:                            | ~ 8.60 - 8.65 LB/GL                              |  |  |  |
| Vapor Pressure (vs. Air or mm Hg):  | NE   |  |  |  |
| Vapor Density (vs. Air = 1):        | NE NE  |  |  |  |
| Evaporation Rate:                   | Soluble  |  |  |  |
| Solubility in Water:                | > 40.0 % by weight.                              |  |  |  |
| Percent Volatile:                   | NP   |  |  |  |
| VOC / Volume:                       | NP   |  |  |  |
| HAP / Volume:                       | NE   |  |  |  |
| Saturated Vapor Concentration:      |  |  |  |  |
| Appearance and Odor                 |  |  |  |  |
| Odor: amine-like.                   |  |  |  |  |
| Appearance: Liquid. amber.          |  |  |  |  |

231 Water Emulsion Primer/Sealer Hardener -

Part B

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Page:

# **10. Stability and Reactivity**

Stability:

Unstable [ ] Stable [ X ]

# Reactivity

Avoid: acids, isocyanates and epoxides.

# **Conditions To Avoid - Instability**

Extreme temperatures.

## Incompatibility - Materials To Avoid

Avoid: acids, Isocyanates.

# **Hazardous Decomposition Or Byproducts**

Thermal decomposition may produce smoke, carbon monoxide, carbon dioxide.

Possibility of Hazardous Will occur [] Will not occur [X]

## **Polymerization:**

## **Conditions To Avoid - Hazardous Reactions**

Will not undergo hazardous polymerization in normal storage conditions.

# **11. Toxicological Information**

#### **Toxicological Information**

May cause sensitization by skin contact.

### **Chronic Toxicological Effects**

Skin sensitization.

#### **Irritation or Corrosion**

Corrosive! Damages skin and eyes.

## Symptoms related to Toxicological Characteristics

Contact can cause reddening, swelling, rash, scaling, or blistering.

| На | zardous Components (Chemical Name)   | CAS #      | NTP  | IARC | ACGIH | OSHA |
|----|--|------------|------|------|-------|------|
| 1. | Aliphatic Polyamine (Trade Secret)   | NA         | n.a. | n.a. | n.a.  | n.a. |
| 2. | 2-Propenenitrile, reaction products with 3-amino-1,5,5-trimethylcyclohexanemethanami | 90530-15-7 | n.a. | n.a. | n.a.  | n.a. |
|    | ne   |            |      |      |       |      |
| 3. | Isophoronediamine  | 2855-13-2  | n.a. | n.a. | n.a.  | n.a. |
| 4. | 1,3-Benzenedimethanamine   | 1477-55-0  | n.a. | n.a. | n.a.  | n.a. |

# 12. Ecological Information

#### **General Ecological Information**

Avoid release to the environment. Do not empty into drains. May be hazardous to the environment if released in large quantities.

# Results of PBT and vPvB assessment

No data available.

# Persistence and Degradability

Not readily biodegradable.

## **Bioaccumulative Potential**

No data available.

#### **Mobility in Soil**

not reported, unknown.

# 13. Disposal Considerations

# Waste Disposal Method

Incinerate or dispose of unused material, residues and containers in a licensed facility in accordance with all applicable local, state and federal regulations. Do not discharge substance/product into sewage system.

# SAFETY DATA SHEET

Part B

231 Water Emulsion Primer/Sealer Hardener -

|                             | 14. Transport Information   |
|-----------------------------|---|
| LAND TRANSPORT (US DOT)     |   |
| DOT Proper Shipping Name    | Amines, Liquid, Corrosive n.o.s. (Modified Polyamine) MARINE POLLUTANT.   |
|                             | NOTE: Marine Pollutants - DOT requirements specific to Marine Pollutants do<br>not apply to non-bulk packagings transported by motor vehicles, rail cars or<br>aircraft.  |
| DOT Hazard Class:           | 8   |
| DOT Hazard Label:           | CORROSIVE   |
| UN/NA Number:               | UN2735  |
| Packing Group:              | 111   |
| Precautionary Label         | Corrosive! Damages skin and eyes. May cause sensitization by skin contact.<br>May be harmful if swallowed. Vapors may be harmful to the respiratory tract.  |
| AIR TRANSPORT (ICAO/IATA)   |   |
| ICAO/IATA Shipping Name     | Amines, Liquid, Corrosive n.o.s. (Modified Polyamine) MARINE POLLUTANT.   |
|                             | NOTE: Marine Pollutants - DOT requirements specific to Marine Pollutants do<br>not apply to non-bulk packagings transported by motor vehicles, rail cars or<br>aircraft.  |
| UN Number:                  | 2735  |
| Hazard Class:               | 8 - CORROSIVE   |
| Packing Group:              | III   |
| MARINE TRANSPORT (IMDG/IMO) |   |
| IMDG/IMO Shipping Name      | Amines, Liquid, Corrosive n.o.s. (Modified Polyamine) MARINE POLLUTANT.   |
|                             | Note: The presence of a shipping description for a particular mode of transport (ocean, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. Shipment compliance is the responsibility of the person offering the product for transport. |
| UN Number: Hazard           | 2735  |
| Class: Packing              | 8 - CORROSIVE   |
| Group: IMDG EMS             | III   |
| Number: Marine              | FA,SB   |
| Pollutant:                  | Yes   |
|                             | 15. Regulatory Information  |

# 15. Regulatory Information

# **US EPA SARA Title III**

| На | zardous Components (Chemical Name)          | CAS #      | Sec.302 (EHS) | Sec.304 RQ | Sec.313 (TRI) | Sec.110 |
|----|---|------------|---------------|------------|---------------|---------|
| 1. | Aliphatic Polyamine (Trade Secret)          | NA         | No            | No         | No            | No      |
| 2. | 2-Propenenitrile, reaction products with    | 90530-15-7 | No            | No         | No            | No      |
|    | 3-amino-1,5,5-trimethylcyclohexanemethanami |            |               |            |               |         |
|    | ne  |            |               |            |               |         |
| 3. | Isophoronediamine                           | 2855-13-2  | No            | No         | No            | No      |
| 4. | 1,3-Benzenedimethanamine                    | 1477-55-0  | No            | No         | No            | No      |
| _  | and the second                              |            |               |            |               |         |

# **Regulatory Information**

SARA 302 Extremely Hazardous Substances: None.

SARA Section 311/312: Acute, Chronic Health Hazard.

# SAFETY DATA SHEET 231 Water Emulsion Primer/Sealer Hardener -Part B

SARA 313 Toxic Chemicals: None.

CERCLA Reportable Quantity: None.

# **16. Other Information**

# CA=CIRCA NA=NOTAVAILABLE NE=NOTESTABLISHED NR=NOT REGULATED NP= NOT APPLICABLE PR=PROPRIETARY TS=TRADE SECRET ?=UNKNOWN.

#### **Company Policy or Disclaimer**

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