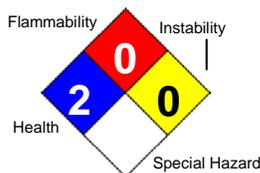


231 Clear Water Emulsion Primer Sealer-Part A



| | |
|--------------|---|
| HEALTH | 2 |
| FLAMMABILITY | 0 |
| PHYSICAL | 0 |
| PPE | X |



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1. Product and Company Identification

Product Code: 231-CLEAR
Product Name: 231 Clear Water Emulsion Primer Sealer-Part A
Trade Name: 231 Clear Water Emulsion Primer Sealer-Part A

Manufacturer Information

Company Name: Epoxy Systems, Inc.
 20774 W Pennsylvania Ave.
 Dunnellon, FL 34431

Phone Number: +1 (352) 489-1666

Emergency Contact: PERS (USA) (800) 633-8253
 PERS (International) +1 (801) 629-0667

Alternate Emergency Contact: PERS (USA) (800) 633-8253
 PERS (International) +1 (801) 629-0667

Intended Use: Industrial floor coatings.

2. Hazards Identification

| GHS Classification | Placard | Key word | GHS hazard phrase |
|--|-------------------|----------|-------------------------------|
| Skin Corrosion/Irritation, Category 3 | none | Warning | Causes mild skin irritation |
| Serious Eye Damage/Eye Irritation, Category 2A | Exclamation point | Warning | Causes serious eye irritation |

GHS Hazard Phrases

H315 - Causes skin irritation.
 H320 - Causes eye irritation.
 H303+333 - May be harmful if swallowed or inhaled.

GHS Precaution Phrases

P260 - Do not breathe dust/mist/vapours/spray.
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.
 P262 - Do not get in eyes, on skin, or on clothing.
 P362+364 - Take off contaminated clothing and wash it before reuse.
 P273 - Avoid release to the environment.

GHS Response Phrases

P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P337+313 - If eye irritation persists, get medical advice/attention.
 P302+350 - IF ON SKIN: Gently wash with plenty of soap and water. P332+313 - If skin irritation occurs, get medical advice/attention.
 P304+341 - IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. P314 - Get medical attention/advice if you feel unwell.
 P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P313 - Get medical advice/attention.
 P391 - Collect spillage.

GHS Storage and Disposal Phrases

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

Potential Health Effects (Acute and Chronic)

May cause eye irritation. May cause skin irritation. May cause respiratory irritation.

Inhalation

May cause respiratory irritation.

Skin Contact

Causes skin irritation.

Eye Contact

May cause eye irritation.

Ingestion

May be harmful if swallowed.

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

| Hazardous Components (Chemical Name) | CAS # | Concentration |
|--------------------------------------|------------|---------------|
| 1. Epoxy Resin (Trade Secret) | NA | 20 - 30 % |
| 2. Bisphenol-a based epoxy resin | 25068-38-6 | 10 - 20 % |
| 3. Phenol-Formaldehyde Polymer | 28064-14-4 | 1.0 - 10 % |
| 4. 2-Propanol, 1-Methoxy- | 107-98-2 | 1.0 - 10 % |
| 5. Benzenemethanol | 100-51-6 | 1.0 - 5.0 % |

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. Call a physician.

In Case of Ingestion

If swallowed, wash out mouth with water provided person is conscious. Call a physician immediately. For further assistance, contact your local Poison Control Center.

Signs and Symptoms Of Exposure

Moderate irritation effect.

5. Fire Fighting Measures

Flash Pt: NA Method Used: Not Applicable

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. Use water spray to cool unopened containers.

Flammable Properties and Hazards

Product will not support combustion as supplied.

Hazardous Combustion Products

In a fire, product may produce the following: Carbon monoxide, Carbon dioxide.

Suitable Extinguishing Media

Will not support combustion.

Unsuitable Extinguishing Media

Will not support combustion.

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.

Evacuate area. 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.

Environmental Precautions

Prevent entry into waterways, sewers, basements or confined areas.

7. Handling and Storage

Hazard Label Information:

Avoid contact with skin and eyes. Do not get on skin and clothing. Keep from freezing. Store in a closed container.

Precautions To Be Taken in Handling

Provide adequate ventilation. Do not breathe vapor. Do not get in eyes, on skin or on clothing.

Precautions To Be Taken in Storing

Keep from freezing. Keep container closed when not in use.

Other Precautions

Wash thoroughly after handling.

8. Exposure Controls/Personal Protection

| Hazardous Components (Chemical Name) | CAS # | OSHA PEL | ACGIH TWA | Other Limits |
|--------------------------------------|------------|-------------|-------------------------------|--------------|
| 1. Epoxy Resin (Trade Secret) | | NA No data. | No data. | No data. |
| 2. Bisphenol-a based epoxy resin | 25068-38-6 | No data. | No data. | No data. |
| 3. Phenol-Formaldehyde Polymer | 28064-14-4 | No data. | No data. | No data. |
| 4. 2-Propanol, 1-Methoxy- | 107-98-2 | No data. | TLV: 100 ppm STEL: 150 ppm | No data. |
| 5. Benzenemethanol | 100-51-6 | No data. | No data. | No data. |

Protective Equipment Summary - Hazard Label Information:

Neoprene gloves Safety glasses, or goggles. Impervious clothing.

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

9. Physical and Chemical Properties

Physical States: [] Gas [X] Liquid [] Solid

Melting Point: No data.

Boiling Point: >= 140.00 F

Autoignition Pt: No data.

Flash Pt: NA Method Used: Not Applicable

Explosive Limits: LEL: NE UEL: NE

Specific Gravity (Water = 1): ~ 1.056

Density: ~ 8.81

Vapor Pressure (vs. Air or mm Hg): NE

Vapor Density (vs. Air = 1): NE

Evaporation Rate: NE

Solubility in Water: No data.

Solubility Notes

Water soluble.

Percent Volatile: ~ 40 % by volume.

VOC / Volume: NE

HAP / Volume: NP

Saturated Vapor Concentration: NE

Appearance and Odor

Milky. Faint.

10. Stability and Reactivity

Stability: Unstable [] Stable [X]

Reactivity

Avoid uncontrolled contact with amines.

Conditions To Avoid - Instability

Extreme temperatures.

Incompatibility - Materials To Avoid

None known.

Hazardous Decomposition Or Byproducts

None known.

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

Conditions To Avoid - Hazardous Reactions

None known.

11. Toxicological Information

Toxicological Information

Product not considered to be a toxic mixture.

Chronic Toxicological Effects

No data available.

Irritation or Corrosion

May cause skin, eye, and respiratory irritation.

| Hazardous Components (Chemical Name) | CAS # | NTP | IARC | ACGIH | OSHA |
|--------------------------------------|------------|------|------|-------|------|
| 1. Epoxy Resin (Trade Secret) | NA | n.a. | n.a. | n.a. | n.a. |
| 2. Bisphenol-a based epoxy resin | 25068-38-6 | n.a. | n.a. | n.a. | n.a. |
| 3. Phenol-Formaldehyde Polymer | 28064-14-4 | n.a. | n.a. | n.a. | n.a. |
| 4. 2-Propanol, 1-Methoxy- | 107-98-2 | n.a. | n.a. | n.a. | n.a. |
| 5. Benzenemethanol | 100-51-6 | n.a. | n.a. | n.a. | n.a. |

12. Ecological Information

General Ecological Information

May be hazardous to the environment if released in large quantities.

Results of PBT and vPvB assessment

No data available.

Persistence and Degradability

No data available.

Bioaccumulative Potential

not reported, unknown.

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.

14. Transport Information

LAND TRANSPORT (US DOT)

DOT Proper Shipping Name Not Regulated.

AIR TRANSPORT (ICAO/IATA)

ICAO/IATA Shipping Name Not Regulated.

MARINE TRANSPORT (IMDG/IMO)

Marine Pollutant: No

15. Regulatory Information

US EPA SARA Title III

| Hazardous Components (Chemical Name) | CAS # | Sec.302 (EHS) | Sec.304 RQ | Sec.313 (TRI) | Sec.110 |
|--------------------------------------|------------|---------------|------------|---------------|---------|
| 1. Epoxy Resin (Trade Secret) | NA | No | No | No | No |
| 2. Bisphenol-a based epoxy resin | 25068-38-6 | No | No | No | No |
| 3. Phenol-Formaldehyde Polymer | 28064-14-4 | No | No | No | No |
| 4. 2-Propanol, 1-Methoxy- | 107-98-2 | No | No | No | No |

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| Hazardous Components (Chemical Name) | CAS # | Sec.302 (EHS) | Sec.304 RQ | Sec.313 (TRI) | Sec.110 |
|--------------------------------------|----------|---------------|------------|---------------|---------|
| 5. Benzenemethanol | 100-51-6 | No | No | No | No |

Regulatory Information

SARA Section 311/312: Acute Health Hazard.

16. Other Information

CA=CIRCA NA=NOT AVAILABLE NE=NOT ESTABLISHED NR=NOT REGULATED NP= NOT APPLICABLE PR=PROPRIETARY TS=TRADE SECRET ?=UNKNOWN.

Company Policy or Disclaimer

The information contained in this MSDS is taken from sources believed to be accurate as of the date hereof; however Epoxy Systems, Inc. makes no expressed or implied warranty in respect to the accuracy of the information or the suitability of the recommendations, and assumes no liabilities to any user thereof.

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