



SAFETY DATA SHEET

Printing Date: 10.4.2020

Revision Date: 10.4.2020

SECTION I. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product name **ZORRIK HB 1432 SF (PART A)**
Product description Mixture
Product use Epoxy based protective & decorative coating used in construction industry
Manufacturer/supplier Pidilite Industries Ltd., Ramkrishna Mandir Road,
Kondivita, Off: M. Vasanji Road, P.O. Box 17411,
Andheri (East), Mumbai – 400059
Email: pilmsds@pidilite.co.in
Telephone: +91-22-2835 7000 Fax: +91-22-2821 6007

SECTION II- IDENTIFICATION OF HAZARDS

Classification according to GHS

Eye irritation (Cat.2); Skin irritation (Cat.2); Skin sensitization (Cat.1); Chronic aquatic toxicity (Cat. 2)

Labeling:

Pictogram:



Signal word Warning

Hazard statement(s): H227, H315, H317 & H411

Precautionary statement(s): P273, 280, P305+P351+P338

SECTION III – COMPOSITION/ INFORMATION ON INGREDIENTS

Chemical Identity: Mixture of epoxy resin with filler

Hazardous ingredient(s):

Chemical Name	Cas no.	Conc.%	Classification: GHS/CLP
Epoxy resin	25068-38-6	10 - 40	Haz. Pictogram: Haz. Statement code: H319, H315, H 317, H411

For full-text of H-, statements and R-phrases: see Section 16.

SECTION IV- FIRST AID MEASURES

Skin contact: Flush skin with soap & water. Remove contaminated cloths. Wash contaminated cloths before reuse. Seek medical help if required.

Eye contact: Immediately flush eyes with plenty of water for at least 15 minutes. Consult Physician if irritation persists.

Inhalation: Move the subject to fresh air. If not breathing, give artificial respiration. If respiration is difficult, give Oxygen and seek help from Physician.

Ingestion: Immediately give two glasses of water to drink. Do not induce vomiting. Never give anything by mouth to an unconscious person. Seek medical help.

Note to physician: There is no specific antidote. Treatment should be given symptomatically on the clinical conditions.

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SECTION V - FIRE-FIGHTING MEASURES

Fire extinguishing Media: Use Foam, Dry Chemical Powder, or CO₂ to extinguish the fire.

Special fire fighting procedure: As in any fire, wear self-contained breathing apparatus, MSHA/NIOSH (approved or equivalent) and full protective gear.

Unusual fire and explosion hazards: May generate toxic or irritating combustion products.

SECTION VI - ACCIDENTAL RELEASE MEASURES

Personal precautions: Avoid breathing vapors & contact with the skin and the eyes. Ensure adequate ventilation. See sections VII & VIII for personal protective equipment & handling.

Environment precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Avoid release to the environment.

Cleaning methods: Soak up with inert absorbent material and dispose of as hazardous waste. Wash floor with water after cleaning the material. Keep in suitable, closed containers for disposal. Dispose of in accordance with local regulations.

SECTION VII- HANDLING AND STORAGE

Precautions for safe handling: Use only in well ventilated areas. Avoid inhalation of vapors or mist skin & eye contact. Keep away from freezing & sources of ignition. Wash hands before breaks and at the end of workday. When using, do not eat, drink or smoke.

Storage: Store in cool place. Keep containers tightly closed in a dry and well- ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

SECTION VIII- EXPOSURE CONTROL/ PERSONAL PROTECTIVE EQUIPMENT

Appropriate engineering Controls: Local exhaust ventilation and/or mechanical (general) exhaust are recommended where Vapors are likely to be generated. All such equipment must be intrinsically safe.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Protective measures: Eye wash facility and emergency shower.

Personal protective equipment

Eye protection: Avoid eye contact by wearing chemical goggles with side shields or face shield whenever exposed to vapor or mist or if there is a risk of splashing liquid in the eyes.

Skin and body protection Avoid skin contact by the use of approved chemical resistant gloves Impervious (rubber, neoprene, PVC, etc.) hand gloves, aprons.

Skin and body protection Avoid skin contact by the use of approved chemical resistant gloves Impervious (rubber, neoprene, PVC, etc.) hand gloves, aprons.

Respiration protection: Use suitable respiratory protective device in case of insufficient ventilation. Maintain good ventilation in the area. Suggested MSHA/NIOSH approved respirator where vapors concentrations is more.

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SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

Form: liquid	Color: Grey
Odor: Characteristic	Boiling point: > 150 °C
Flammability: Combustible	Autoignition temperature: Not determined
Decomposition temperature: Not determined	Density / specific gravity (water=1): 1.20 ± 0.05
Vapor pressure (MmHG) @ 20 °C: 0.00165	Viscosity @ 30 °C: 10 – 40 Ps
Solubility in / Miscibility with water: Insoluble	

SECTION X - STABILITY AND REACTIVITY DATA

Chemical stability:	Stable under normal conditions of use.
Thermal decomposition:	May yield acrid smoke and irritating gases with oxides of carbon and other toxic vapors.
Hazardous Polymerization:	Hazardous polymerization does not occur
Conditions to avoid:	Extreme heat and freezing
Incompatible Materials:	Acids, bases, strong oxidizers & reactive metals.
Hazardous decomposition product:	Not known

SECTION XI - TOXICOLOGICAL INFORMATION

Acute toxicity:	No acute toxicity information is available for this product.
Potential health effect:	
On the skin:	May be harmful if absorbed through skin. May cause allergic skin reaction with symptoms of reddening, itching, swelling, and rash. Causes skin irritation.
On the eye:	May cause eye irritation
Inhalation:	May be harmful if inhaled. Causes respiratory tract irritation
Ingestion:	May be harmful if swallowed.
Additional toxicological information:	
When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.	

SECTION XII - ECOLOGICAL INFORMATION

Aquatic toxicity:	Quantitative data on the ecological effect of this product are not available.
Persistence and degradability:	The epoxy resin used is classified as damaging to aquatic environment.
Behaviour in environmental systems:	
Bioaccumulative potential:	No further relevant information available.
Mobility in soil:	No further relevant information available.
Results of PBT and vPvB assessment:	No information is available
Other adverse effects	No further relevant information available.

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SECTION XIII - DISPOSAL INFORMATION

Waste from Residues / Unused Products: Dispose of in accordance with local regulations.

Contaminated Packaging Empty containers should be taken to local recyclers for disposal.

SECTION XIV - TRANSPORTATION INFORMATION

International Air Transportation (ICAO/ IATA)

Proper Shipping name: Environmentally Hazardous Substance, Liquid, N.O.S. (containing Epoxy resin)

Transport hazard class (es): 9

UN number: 3082

Packing group (ADR, IMDG, IATA): III

Water Transportation (IMO/IMDG):

Proper Shipping name: Environmentally Hazardous Substance, Liquid, N.O.S. (containing Epoxy resin)

Transport hazard class (es): 9

UN number: 3082

Packing group (ADR, IMDG, IATA): III

SECTION XV - REGULATORY INFORMATION

Chemical Inventories: The components used in the product are listed on following chemical inventories: AICS (Australia), Canada (DSL), China (IECSC-SEPA), Japan (ENCS), Korea (KECI), PICCS (Philippines), TSCA (US).

SECTION XVI - MISCELLANEOUS INFORMATION

Full text of Hazard statements mentioned in sections 2 & 3:

Hazard statement(s):

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 statement(s):

P273: Avoid release to the environment

P280: Wear protective gloves.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue.

DISCLAIMER: The data presented here is based on information we believe to be reliable but unknown risks may be present. We disclaim liability for damage or injury which results from the use of the above data and nothing contained therein shall constitute a guarantee or a warranty (including warranty of Merchantability or fitness for a particular purpose) or representation (including freedom from Patentability) by us with respect to the accuracy or completeness of the data, the product described or their use for any specific purpose as known to us. The final determination of the suitability of information, the manner of use of information or product and potential infringement of patents is the sole responsibility of the user.

ABBREVIATIONS USED: NA - NOT APPLICABLE, NH - NON HAZARDOUS,
CI - CONTENT INSIGNIFICANT.

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SECTION I. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product name **ZORRIK HB 1432 SF (PART B)**
Product description Polyamide resin
Product use as hardener for protective & decorative coating used in construction industry
Manufacturer/supplier Pidilite Industries Ltd., Ramkrishna Mandir Road,
Kondivita, Off: M. Vasanji Road, P.O. Box 17411,
Andheri (East), Mumbai – 400059
Email: piimds@pidilite.co.in
Telephone: +91-22-2835 7000 Fax: +91-22-2821 6007

SECTION II- IDENTIFICATION OF HAZARDS

Classification according to GHS

Eye irritation (Cat.2); Skin irritation (Cat.2); Skin sensitization (Cat.1); Chronic aquatic toxicity (Cat. 2)

Labeling:

Pictogram:



Signal word Warning

Hazard statement(s): H227, H315, H317 & H411

Precautionary statement(s): P273, 280, P305+P351+P338

For full-text of H-, statements, R-phrases, Precautionary statements: see Section 16.

SECTION III – COMPOSITION/ INFORMATION ON INGREDIENTS

Chemical Identity: Mixture of polyamide resin with filler

Hazardous ingredient(s):

Chemical Name	Cas no.	Conc. %	Classification: GHS/CLP
Polyamide resin	68410-23-1	70 – 80	Haz. pictogram: Haz. Statement code: H319, H315, H 317, H411

For full-text of H-, statements and R-phrases: see Section 16.

SECTION IV- FIRST AID MEASURES

Skin contact: Flush skin with soap & water while removing contaminated cloths. Seek medical help if required. Wash contaminated cloths before reuse.

Eye contact: Immediately flush eyes with plenty of water for at least 15 minutes. Consult Physician if irritation persists.

Inhalation: Move the subject to fresh air. If not breathing, give artificial respiration. If respiration is difficult, give Oxygen and seek help from Physician.

Ingestion: Immediately give two glasses of water to drink. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a Physician.

Note to physician: There is no specific antidote. Treatment should be given symptomatically on the clinical conditions.

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SECTION V - FIRE-FIGHTING MEASURES

- Fire extinguishing Media:** Use Foam, Dry Chemical Powder, or CO2 to extinguish the fire.
- Special fire fighting Procedure:** As in any fire, wear self-contained breathing apparatus, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION VI - ACCIDENTAL RELEASE MEASURES

- Personal precautions:** Avoid breathing vapors & contact with the skin and the eyes. Ensure adequate ventilation. See sections VII & VIII for personal protective equipment & handling.
- Environment precautions:** Do not allow to enter soil, waterways and open bodies of water.
- Cleaning methods:** Soak up with inert absorbent material and dispose of as hazardous waste. Wash floor with water after cleaning the material. Keep in suitable, closed containers for disposal. Dispose of in accordance with local regulations.

SECTION VII- HANDLING AND STORAGE

- Precautions for safe handling:** Use only in well ventilated areas. Avoid inhalation of vapors or mist skin & eye contact. Keep away from freezing & sources of ignition. Wash hands before breaks and at the end of workday. When using, do not eat, drink or smoke.
- Storage:** Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

SECTION VIII- EXPOSURE CONTROL/ PERSONAL PROTECTIVE EQUIPMENT

- Appropriate engineering Controls:** Local exhaust ventilation and/or mechanical (general) exhaust are recommended where Vapors are likely to be generated.
- Hygiene measures:** Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
- Protective measures:** Eye wash facility and emergency shower.
- Personal protective equipment**
- Eye protection:** Avoid eye contact by wearing chemical goggles with side shields or face shield whenever exposed to vapor or mist or if there is a risk of splashing liquid in the eyes.
- Skin and body protection** Avoid skin contact by the use of approved chemical resistant gloves Impervious (rubber, neoprene, PVC, etc.) hand gloves, aprons.
- Respiration protection:** Use suitable respiratory protective device in case of insufficient ventilation. Maintain good ventilation in the area. Suggested MSHA/NIOSH approved respirator where vapors concentrations is more.

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SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

Form: Liquid	Color: Brown
Odour: Ammonical	Boiling point: > 200 °C
Flammability: Non flammable	Autoignition temperature: Not determined
Decomposition temperature: Not determined	Density / specific gravity (water=1): 0.94 ± 0.05
Vapor pressure (MmHG) @ 20 °C: < 15	Viscosity @ 30 °C: Less than 1 Poise
Solubility in / Miscibility with water: Insoluble	

SECTION X - STABILITY AND REACTIVITY DATA

Chemical stability:	Stable under normal conditions of use.
Thermal decomposition:	May yield acrid smoke and irritating gases with oxides of carbon
Possibility of hazardous reaction:	No dangerous reactions known
Hazardous Polymerization:	Hazardous polymerization does not occur
Conditions to avoid:	Extreme heat and freezing
Incompatible Materials:	Acids, bases, strong oxidizers & reactive metals.

SECTION XI - TOXICOLOGICAL INFORMATION

Acute toxicity:	No acute toxicity information is available for this product
Potential health effects:	
On the skin:	Toxic by skin absorption. May cause allergic skin reaction with symptoms of reddening, itching, swelling, and rash.
On the eye:	May cause eye irritation
Inhalation:	Potential sensitizer, irritant to respiratory tract.
Ingestion:	Toxic. May cause nausea, abdominal discomfort If swallowed.

Additional toxicological information:

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

SECTION XII - ECOLOGICAL INFORMATION

Aquatic toxicity:	Quantitative data on the ecological effect of this product are not available.
Persistence and degradability:	Polyamide resin used is classified as damaging to aquatic environment.
Behaviour in environmental systems:	
Bioaccumulative potential:	No further relevant information available.
Mobility in soil:	No further relevant information available.
Results of PBT and vPvB assessment:	No information is available.
Other adverse effects	No further relevant information available.

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SECTION XIII - DISPOSAL INFORMATION

Waste from Residues / Unused Products: Dispose of in accordance with local regulations

Contaminated Packaging Empty containers should be taken to local recyclers for disposal

SECTION XIV - TRANSPORTATION INFORMATION

International Air Transportation (ICAO/ IATA)

Proper Shipping name: Environmentally Hazardous Substance, liquid, N.O.S. (dimer fatty acid (C36) poly amido amine resin)

Transport hazard class (es): 9

UN number: 3082

Packing group (ADR, IMDG, IATA): III

Water Transportation (IMO/IMDG):

Proper Shipping name: Environmentally Hazardous Substance, liquid, N.O.S. (dimer fatty acid (C36) poly amido amine resin)

Transport hazard class (es): 9

UN number: 3082

Packing group (ADR, IMDG, IATA): III

SECTION XV - REGULATORY INFORMATION

Chemical Inventories: The components used in the product are listed on following chemical inventories: AICS (Australia), Canada (DSL), China (IECSC-SEPA), Japan (ENCS), Korea (KECI), PICCS (Philippines), TSCA (US).

SECTION XVI - MISCELLANEOUS INFORMATION

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ABBREVIATIONS USED: NA - NOT APPLICABLE, NH - NON HAZARDOUS,
CI - CONTENT INSIGNIFICANT.