

Safety Data Sheet

acc. to OSHA HCS

Printing date: 11/12/2025

Revised on: 11/05/2025

1 Identification

- **Product Name:** RR-2000 EPOXY MORTAR SYSTEM 4 PT B
- **Product Number:** 194-U0-105
- **Manufacturer/Supplier:**
Harrison Paint Company
1329 Harrison Ave SW
Canton, OH 44706
USA
- **Information telephone number:** 330-455-5125
- **Emergency telephone number:** 330-455-5125

2 Hazard(s) identification

- **Classification of the substance or mixture:**
Flammable Liquids 4 H227 Combustible liquid.
Acute Toxicity - Oral 4 H302 Harmful if swallowed.
Skin Corrosion 1B H314 Causes severe skin burns and eye damage.
Eye Damage 1 H318 Causes serious eye damage.
Sensitization - Skin 1 H317 May cause an allergic skin reaction.
Carcinogenicity 2 H351 Suspected of causing cancer.
Toxic to Reproduction 2 H361 Suspected of damaging fertility or the unborn child.
- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms:**



GHS05 GHS07 GHS08

- **Signal word:** Danger
- **Hazard-determining components of labeling:**
3,4-Pyrrolidinediol
4-nonylphenol, branched
trimethylhexane-1,6-diamine
Pine Oil
2-piperazin-1-ylethylamine
4-tert-butylphenol
m-phenylenebis(methylamine)
Hydrocarbon resin
- **Hazard statements:**
Combustible liquid.
Harmful if swallowed.
Causes severe skin burns and eye damage.
May cause an allergic skin reaction.
Suspected of causing cancer.
Suspected of damaging fertility or the unborn child.
- **Precautionary statements:**
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep away from flames and hot surfaces. – No smoking.
Do not breathe dusts or mists.

(Contd. on page 2)

Safety Data Sheet

acc. to OSHA HCS

Printing date: 11/12/2025

Revised on: 11/05/2025

Product Name: RR-2000 EPOXY MORTAR SYSTEM 4 PT B

(Contd. from page 1)

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

Contaminated work clothing must not be allowed out of the workplace.

Wear protective gloves/protective clothing/eye protection/face protection.

If swallowed: Call a doctor if you feel unwell.

If swallowed: Rinse mouth. Do NOT induce vomiting.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

Immediately call a doctor.

IF exposed or concerned: Get medical advice/attention.

Specific treatment (see on this label).

If skin irritation or rash occurs: Get medical advice/attention.

Wash contaminated clothing before reuse.

In case of fire: Use CO₂, sand, extinguishing powder to extinguish.

Store in a well-ventilated place. Keep cool.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Classification system:**· **NFPA ratings (scale 0 - 4)**

Health = 3

Fire = 2

Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**

Health = *3

Fire = 2

Reactivity = 0

· **Other hazards:**· **Results of PBT and vPvB assessment:**· **PBT:** Not applicable.· **vPvB:** Not applicable.

3 Composition/information on ingredients

· **Chemical characterization: Mixture**· **Description:** Mixture of the substances listed below with nonhazardous additions.· **Hazardous components:**

9046-10-0	3,4-Pyrrolidinediol	40-60%
84852-15-3	4-nonylphenol, branched	20-30%
25620-58-0	trimethylhexane-1,6-diamine	5-10%
1477-55-0	m-phenylenebis(methylamine)	5-10%
140-31-8	2-piperazin-1-ylethylamine	≥3-<5%
98-54-4	4-tert-butylphenol	≥3-<5%
68512-30-1	Hydrocarbon resin	2.5-5%
8002-09-3	Pine Oil	≥2.5-<3%

(Contd. on page 3)

Safety Data Sheet

acc. to OSHA HCS

Printing date: 11/12/2025

Revised on: 11/05/2025

Product Name: RR-2000 EPOXY MORTAR SYSTEM 4 PT B

(Contd. from page 2)

102-71-6 Triethanolamine

1-2.5%

4 First-aid measures

- **Description of first aid measures:**

- **General information:**

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- **For inhalation:**

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

- **For skin contact:** Immediately wash with water and soap and rinse thoroughly.

- **For eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.

- **For swallowing:**

Do not induce vomiting; immediately call for medical help.

Immediately call a doctor.

Drink copious amounts of water and provide fresh air. Immediately call a doctor.

A person vomiting while lying on their back should be turned onto their side.

- **Information for doctor:**

- **Most important symptoms and effects, both acute and delayed:** No further relevant information available.

- **Indication of any immediate medical attention and special treatment needed:**

No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media:**

- **Suitable extinguishing agents:**

Sand. Do not use water.

CO₂, sand, extinguishing powder. Do not use water.

- **For safety reasons unsuitable extinguishing agents:** Water

- **Special hazards arising from the substance or mixture:**

During heating or in case of fire poisonous gases are produced.

- **Advice for firefighters:**

- **Protective equipment:**

Mouth respiratory protective device.

Wear self-contained respiratory protective device.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures:**

Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

- **Environmental precautions:**

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

- **Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, universal binder or other inert absorbent).

Use neutralizing agent.

Dispose contaminated material as waste according to section 13.

(Contd. on page 4)

US

Safety Data Sheet

acc. to OSHA HCS

Printing date: 11/12/2025

Revised on: 11/05/2025

Product Name: RR-2000 EPOXY MORTAR SYSTEM 4 PT B

(Contd. from page 3)

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

· **Reference to other sections:**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

· **Protective Action Criteria for Chemicals**

· **PAC-1:**

9046-10-0	3,4-Pyrrolidinediol	4.8 mg/m ³
84852-15-3	4-nonylphenol, branched	3.9 mg/m ³
140-31-8	2-piperazin-1-ylethylamine	6.4 mg/m ³
98-54-4	4-tert-butylphenol	1.5 mg/m ³
102-71-6	Triethanolamine	15 mg/m ³
111-40-0	2,2'-iminodiethylamine	3 ppm
112-24-3	3,6-diazaoctanethylenediamin	3 ppm

· **PAC-2:**

9046-10-0	3,4-Pyrrolidinediol	53 mg/m ³
84852-15-3	4-nonylphenol, branched	43 mg/m ³
140-31-8	2-piperazin-1-ylethylamine	71 mg/m ³
98-54-4	4-tert-butylphenol	40 mg/m ³
102-71-6	Triethanolamine	240 mg/m ³
111-40-0	2,2'-iminodiethylamine	8.5 ppm
112-24-3	3,6-diazaoctanethylenediamin	14 ppm

· **PAC-3:**

9046-10-0	3,4-Pyrrolidinediol	320 mg/m ³
84852-15-3	4-nonylphenol, branched	260 mg/m ³
140-31-8	2-piperazin-1-ylethylamine	420 mg/m ³
98-54-4	4-tert-butylphenol	240 mg/m ³
102-71-6	Triethanolamine	1,500 mg/m ³
111-40-0	2,2'-iminodiethylamine	51 ppm
112-24-3	3,6-diazaoctanethylenediamin	83 ppm

7 Handling and storage

· **Handling:**

· **Precautions for safe handling:**

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of aerosols.

· **Information about protection against explosions and fires:** Keep respiratory protective device available.

· **Conditions for safe storage, including any incompatibilities:**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:** No special requirements.

· **Information about storage in one common storage facility:** Not required.

· **Further information about storage conditions:**

Keep container tightly sealed.

(Contd. on page 5)

Safety Data Sheet

acc. to OSHA HCS

Printing date: 11/12/2025

Revised on: 11/05/2025

Product Name: RR-2000 EPOXY MORTAR SYSTEM 4 PT B

(Contd. from page 4)

- Store in cool, dry conditions in well sealed receptacles.
- **Specific end use(s):** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see section 7.
- **Control parameters:**
- **Components with limit values that require monitoring at the workplace:**
The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.
At this time, the other constituents have no known exposure limits.

1477-55-0 m-phenylenebis(methylamine)

REL	Ceiling limit value: 0.1 mg/m ³ Skin
-----	--

TLV	Ceiling limit value: 0.018 ppm Skin
-----	--

102-71-6 Triethanolamine

TLV	Long-term value: 5 mg/m ³
-----	--------------------------------------

- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls:**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before eating, smoking, using the restroom and at the end of the workday.
Store protective clothing separately.
Avoid contact with the eyes.
Avoid contact with the eyes and skin.
- **Breathing equipment:**
In case of brief exposure or low concentrations, use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
- **Protection of hands:**



Protective gloves

- The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- **Material of gloves:**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material:**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

(Contd. on page 6)

US

Safety Data Sheet

acc. to OSHA HCS

Printing date: 11/12/2025

Revised on: 11/05/2025

Product Name: RR-2000 EPOXY MORTAR SYSTEM 4 PT B

(Contd. from page 5)

· Eye protection:


Tightly sealed goggles

9 Physical and chemical properties

· Information on basic physical and chemical properties:
· General Information:
· Appearance:

Form:	Liquid
Color:	Amber
· Odor:	Pine Oil
· Odor threshold:	Not determined.

· pH-value: Not determined.

· Change in condition:

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	>200 °C (>392 °F)

· Flash point: 92 °C (197.6 °F)

· Flammability (solid, gaseous): Not applicable.

· Auto igniting: 230 °C (446 °F)

· Decomposition temperature: Not determined.

· Ignition temperature: Product is not selfigniting.

· Danger of explosion: Not determined.

· Explosion limits:

Lower:	Not determined.
Upper:	Not determined.

· Vapor pressure: Not determined.

· Density at 20 °C (68 °F): 0.966 g/cm³ (8.061 lbs/gal)

· Relative density: Not determined.

· Vapour density: Heavier than air.

· Evaporation rate: Slower than ether.

· Solubility in / Miscibility with:
Water: Fully miscible.

· Partition coefficient (n-octanol/water): Not determined.

· Viscosity:

Dynamic:	Not determined.
Kinematic:	Not determined.

· Solvent content:

Organic solvents:	5.3 %
VOC content:	5.34 %
	51.6 g/l / 0.43 lb/gal

(Contd. on page 7)

Safety Data Sheet

acc. to OSHA HCS

Printing date: 11/12/2025

Revised on: 11/05/2025

Product Name: RR-2000 EPOXY MORTAR SYSTEM 4 PT B

(Contd. from page 6)

Solids content: 100.0 %

Other information: No further relevant information available.

10 Stability and reactivity

- **Reactivity:** No further relevant information available.
- **Chemical stability:**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions:** No dangerous reactions known.
- **Conditions to avoid:** Do not store or use near sparks, flame, or other ignition sources.
- **Incompatible materials:** Strong acids and alkalis, bleach, strong oxidizers.
- **Hazardous decomposition products:**
Burning may yield carbon monoxide, carbon dioxide, oxides of nitrogen, and various hydrocarbons.

11 Toxicological information

- **Information on toxicological effects:**
- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** Caustic effect on skin and mucous membranes.
- **on the eye:**
Strong caustic effect.
Strong irritant with the danger of severe eye injury.
- **Sensitization:** Sensitization possible through skin contact.
- **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Harmful
Corrosive
Irritant
Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

- **Carcinogenic categories:**

- **IARC (International Agency for Research on Cancer):**

102-71-6 Triethanolamine

3

- **NTP (National Toxicology Program):**

None of the ingredients is listed.

- **OSHA-Ca (Occupational Safety & Health Administration):**

None of the ingredients is listed.

12 Ecological information

- **Toxicity:**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability:** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential:** No further relevant information available.

(Contd. on page 8)

US

Safety Data Sheet

acc. to OSHA HCS

Printing date: 11/12/2025

Revised on: 11/05/2025

Product Name: RR-2000 EPOXY MORTAR SYSTEM 4 PT B

(Contd. from page 7)

- **Mobility in soil:** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
 Water hazard class 3 (Self-assessment): extremely hazardous for water
 Do not allow product to reach ground water, water course or sewage system, even in small quantities.
 Must not reach bodies of water or drainage ditch undiluted or unneutralized.
 Danger to drinking water if even extremely small quantities leak into the ground.
- **Results of PBT and vPvB assessment:**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects:** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods:**
- **Recommendation:**
 Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

- | | |
|---|-------------------------|
| · UN-Number: | UN3066 |
| · DOT, IMDG, IATA | |
| · UN proper shipping name: | Paint |
| · DOT | PAINT, MARINE POLLUTANT |
| · IMDG | PAINT |
| · IATA | |
| · Transport hazard class(es): | |
| · DOT | |
|  | |
| · Class | 8 Corrosive substances |
| · Label | 8 |
| · IMDG | |
|   | |
| · Class | 8 Corrosive substances |

(Contd. on page 9)

Safety Data Sheet

acc. to OSHA HCS

Printing date: 11/12/2025

Revised on: 11/05/2025

Product Name: RR-2000 EPOXY MORTAR SYSTEM 4 PT B

(Contd. from page 8)

· Label	8
· IATA	
	
· Class	8 Corrosive substances
· Label	8
· Packing group:	
· DOT, IMDG, IATA	II
· Environmental hazards:	Product contains environmentally hazardous substances: 4-nonylphenol, branched
· Marine pollutant:	Symbol (fish and tree)
· Special precautions for user:	Warning: Corrosive substances
· Hazard identification number (Kemler code):	80
· EMS Number:	F-A,S-B
· Stowage Category	B
· Stowage Code	SW2 Clear of living quarters.
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:	Not applicable.
· Transport/Additional information:	
· DOT	
· Quantity limitations:	On passenger aircraft/rail: 1 L On cargo aircraft only: 30 L
· IMDG	
· Limited quantities (LQ):	1L
· Excepted quantities (EQ):	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN 3066 PAINT, 8, II, ENVIRONMENTALLY HAZARDOUS

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture:**

No further relevant information available.

· **SARA:**

· **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

· **Section 313 (Specific toxic chemical listings):**

84852-15-3 4-nonylphenol, branched

· **TSCA (Toxic Substances Control Act):**

9046-10-0	3,4-Pyrrolidinediol	ACTIVE
84852-15-3	4-nonylphenol, branched	ACTIVE
25620-58-0	trimethylhexane-1,6-diamine	ACTIVE

(Contd. on page 10)

Safety Data Sheet

acc. to OSHA HCS

Printing date: 11/12/2025

Revised on: 11/05/2025

Product Name: RR-2000 EPOXY MORTAR SYSTEM 4 PT B

(Contd. from page 9)

1477-55-0	m-phenylenebis(methylamine)	ACTIVE
140-31-8	2-piperazin-1-ylethylamine	ACTIVE
98-54-4	4-tert-butylphenol	ACTIVE
8002-09-3	Pine Oil	ACTIVE
102-71-6	Triethanolamine	ACTIVE
111-40-0	2,2'-iminodiethylamine	ACTIVE
112-24-3	3,6-diazaoctanethylenediamin	ACTIVE

· **Hazardous Air Pollutants**

None of the ingredients is listed.

· **Proposition 65:**· **Chemicals known to cause cancer:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

· **Carcinogenic categories:**· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

· **TLV (Threshold Limit Value)**

None of the ingredients is listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

· **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).· **Hazard pictograms:**

GHS05 GHS07 GHS08

· **Signal word:** Danger· **Hazard-determining components of labeling:**

3,4-Pyrrolidinediol
 4-nonylphenol, branched
 trimethylhexane-1,6-diamine
 Pine Oil
 2-piperazin-1-ylethylamine
 4-tert-butylphenol
 m-phenylenebis(methylamine)
 Hydrocarbon resin

· **Hazard statements:**

Combustible liquid.
 Harmful if swallowed.

(Contd. on page 11)

Safety Data Sheet

acc. to OSHA HCS

Printing date: 11/12/2025

Revised on: 11/05/2025

Product Name: RR-2000 EPOXY MORTAR SYSTEM 4 PT B

(Contd. from page 10)

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

Suspected of causing cancer.

Suspected of damaging fertility or the unborn child.

Precautionary statements:

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Keep away from flames and hot surfaces. – No smoking.

Do not breathe dusts or mists.

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

Contaminated work clothing must not be allowed out of the workplace.

Wear protective gloves/protective clothing/eye protection/face protection.

If swallowed: Call a doctor if you feel unwell.

If swallowed: Rinse mouth. Do NOT induce vomiting.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

Immediately call a doctor.

If exposed or concerned: Get medical advice/attention.

Specific treatment (see on this label).

If skin irritation or rash occurs: Get medical advice/attention.

Wash contaminated clothing before reuse.

In case of fire: Use CO₂, sand, extinguishing powder to extinguish.

Store in a well-ventilated place. Keep cool.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Department issuing SDS: Laboratory

Contact: Laboratory Manager

Date of preparation / last revision: 11/12/2025

Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Flammable Liquids 4: Flammable liquids – Category 4

Acute Toxicity - Oral 4: Acute toxicity – Category 4

(Contd. on page 12)

Safety Data Sheet

acc. to OSHA HCS

Printing date: 11/12/2025

Revised on: 11/05/2025

Product Name: RR-2000 EPOXY MORTAR SYSTEM 4 PT B*(Contd. from page 11)*

Skin Corrosion 1B: Skin corrosion/irritation – Category 1B
Eye Damage 1: Serious eye damage/eye irritation – Category 1
Sensitization - Skin 1: Skin sensitisation – Category 1
Carcinogenicity 2: Carcinogenicity – Category 2
Toxic to Reproduction 2: Reproductive toxicity – Category 2

US