

# Safety Data Sheet

acc. to OSHA HCS

Printing date: 11/12/2025

Revised on: 11/05/2025

## 1 Identification

- **Product Name:** RR-8000 ALIPHATIC HW URETHANE TOPCOAT PT A
- **Product Number:** 194-R0-100
- **CAS Number:**  
28182-81-2
- **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:**  
Acute Toxicity - Inhalation 4 H332 Harmful if inhaled.  
Eye Irritation 2B H320 Causes eye irritation.  
Sensitization - Respiratory 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
Sensitization - Skin 1 H317 May cause an allergic skin reaction.
- **GHS label elements** The substance is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms:**



GHS07 GHS08

- **Signal word:** Danger
- **Hazard-determining components of labeling:**  
Isocyanate resin  
hexamethylene-di-isocyanate
- **Hazard statements:**  
Harmful if inhaled.  
Causes eye irritation.  
May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
May cause an allergic skin reaction.
- **Precautionary statements:**  
Avoid breathing dust/fume/gas/mist/vapors/spray  
Wash thoroughly after handling. Do not touch eyes.  
Use only outdoors or in a well-ventilated area.  
Contaminated work clothing must not be allowed out of the workplace.  
Wear protective gloves.  
[In case of inadequate ventilation] wear respiratory protection.  
If on skin: Wash with plenty of water.  
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.  
Call a doctor if you feel unwell.  
Specific treatment (see on this label).  
If skin irritation or rash occurs: Get medical advice/attention.  
If eye irritation persists: Get medical help.

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If experiencing respiratory symptoms: Call a doctor.

Wash contaminated clothing before reuse.

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

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



Health = 1

Fire = 1

Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**



Health = \*1

Fire = 1

Reactivity = 0

· **Other hazards:**

· **Results of PBT and vPvB assessment:**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

### 3 Composition/information on ingredients

· **CAS No. Description**

28182-81-2 Isocyanate resin

· **Hazardous components:**

822-06-0	hexamethylene-di-isocyanate	≥0.1-<0.5%
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### 4 First-aid measures

· **Description of first aid measures:**

· **General information:**

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. If symptoms persist, consult a doctor.

· **For swallowing:**

Do not induce vomiting; immediately call for medical help.

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:** Use fire fighting measures that suit the environment.

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- **Special hazards arising from the substance or mixture:** No further relevant information available.
- **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:** Not required.
- **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).
  - Dispose contaminated material as waste according to section 13.
  - Ensure adequate ventilation.
- **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:**

822-06-0	hexamethylene-di-isocyanate	0.018 ppm
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- **PAC-2:**

822-06-0	hexamethylene-di-isocyanate	0.2 ppm
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- **PAC-3:**

822-06-0	hexamethylene-di-isocyanate	3 ppm
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## 7 Handling and storage

- **Handling:**
- **Precautions for safe handling:**
  - Ensure good ventilation/exhaustion at the workplace.
  - Prevent formation of aerosols.
- **Information about protection against explosions and fires:** No special measures required.
- **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.
  - 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.

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**Control parameters:**
**Components with limit values that require monitoring at the workplace:**
**822-06-0 hexamethylene-di-isocyanate**

REL	Long-term value: 0.035 mg/m <sup>3</sup> , 0.005 ppm Ceiling limit value: 0.14* mg/m <sup>3</sup> , 0.02* ppm *10-min
TLV BEI	Long-term value: 0.005 ppm

**Ingredients with biological limit values:**
**822-06-0 hexamethylene-di-isocyanate**

BEI	15 µg/g creatinine Medium: urine Time: end of shift Parameter: 1.6-Hexamethylene diamine with hydrolysis (nonspecific)
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**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.

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.

**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.

**Eye protection:**


Tightly sealed goggles

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## 9 Physical and chemical properties

- **Information on basic physical and chemical properties:**

- **General Information:**

- **Appearance:**

· <b>Form:</b>	Liquid
· <b>Color:</b>	Clear
· <b>Odor:</b>	Almost None
· <b>Odor threshold:</b>	Not determined.

- **pH-value:** Not determined.

- **Change in condition:**

· <b>Melting point/Melting range:</b>	Undetermined.
· <b>Boiling point/Boiling range:</b>	Undetermined.

- **Flash point:** 110 °C (230 °F)

- **Flammability (solid, gaseous):** Not applicable.

- **Decomposition temperature:** Not determined.

- **Ignition temperature:** Not determined.

- **Danger of explosion:** Product does not present an explosion hazard.

- **Explosion limits:**

· <b>Lower:</b>	Not determined.
· <b>Upper:</b>	Not determined.

- **Vapor pressure:** Not determined.

- **Density at 20 °C (68 °F):** 1.16 g/cm<sup>3</sup> (9.68 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:**

· <b>Dynamic:</b>	Not determined.
· <b>Kinematic:</b>	Not determined.
· <b>VOC content:</b>	0.00 %
	0.0 g/l / 0.00 lb/gal

- **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.

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- **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:** No irritant effect.
- **on the eye:** Irritating effect.
- **Sensitization:**  
Sensitization possible through inhalation.  
Sensitization possible through skin contact.
- **Additional toxicological information:**
- **Carcinogenic categories:**

· <b>IARC (International Agency for Research on Cancer):</b>
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None of the ingredients is listed.
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· <b>NTP (National Toxicology Program):</b>
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None of the ingredients is listed.
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· <b>OSHA-Ca (Occupational Safety &amp; Health Administration):</b>
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None of the ingredients is listed.
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## 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.
- **Mobility in soil:** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
Water hazard class 1 (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **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.

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**Recommended cleansing agent:** Water, if necessary with cleansing agents.

## 14 Transport information

· <b>UN-Number:</b>	
· <b>DOT, IMDG, IATA</b>	Not Regulated
· <b>UN proper shipping name:</b>	
· <b>DOT, IMDG, IATA</b>	Not Regulated
· <b>Transport hazard class(es):</b>	
· <b>DOT, ADN, IMDG, IATA</b>	
· <b>Class</b>	Not Regulated
· <b>Packing group:</b>	
· <b>DOT, IMDG, IATA</b>	Not Regulated
· <b>Environmental hazards:</b>	Not applicable.
· <b>Special precautions for user:</b>	Not applicable.
· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:</b>	Not applicable.
· <b>UN "Model Regulation":</b>	Not Regulated

## 15 Regulatory information

· <b>Safety, health and environmental regulations/legislation specific for the substance or mixture:</b>	No further relevant information available.	
· <b>SARA:</b>		
· <b>Section 355 (extremely hazardous substances):</b>		
	None of the ingredients is listed.	
· <b>Section 313 (Specific toxic chemical listings):</b>		
	822-06-0	hexamethylene-di-isocyanate
· <b>TSCA (Toxic Substances Control Act):</b>		
	822-06-0	hexamethylene-di-isocyanate
		ACTIVE
· <b>Hazardous Air Pollutants</b>		
	822-06-0	hexamethylene-di-isocyanate
· <b>Proposition 65:</b>		
· <b>Chemicals known to cause cancer:</b>		
	None of the ingredients is listed.	
· <b>Chemicals known to cause reproductive toxicity for females:</b>		
	None of the ingredients is listed.	
· <b>Chemicals known to cause reproductive toxicity for males:</b>		
	None of the ingredients is listed.	
· <b>Chemicals known to cause developmental toxicity:</b>		
	None of the ingredients is listed.	

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**· 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 substance is classified and labeled according to the Globally Harmonized System (GHS).**· Hazard pictograms:**

GHS07 GHS08

**· Signal word:** Danger**· Hazard-determining components of labeling:**Isocyanate resin  
hexamethylene-di-isocyanate**· Hazard statements:**Harmful if inhaled.  
Causes eye irritation.  
May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
May cause an allergic skin reaction.**· Precautionary statements:**Avoid breathing dust/fume/gas/mist/vapors/spray  
Wash thoroughly after handling. Do not touch eyes.  
Use only outdoors or in a well-ventilated area.  
Contaminated work clothing must not be allowed out of the workplace.  
Wear protective gloves.  
[In case of inadequate ventilation] wear respiratory protection.  
If on skin: Wash with plenty of water.  
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.  
Call a doctor if you feel unwell.  
Specific treatment (see on this label).  
If skin irritation or rash occurs: Get medical advice/attention.  
If eye irritation persists: Get medical help.  
If experiencing respiratory symptoms: Call a doctor.  
Wash contaminated clothing before reuse.  
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

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**Product Name:** RR-8000 ALIPHATIC HW URETHANE TOPCOAT PT A*(Contd. from page 8)***· 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 &amp; Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

BEI: Biological Exposure Limit

Acute Toxicity - Inhalation 4: Acute toxicity – Category 4

Eye Irritation 2B: Serious eye damage/eye irritation – Category 2B

Sensitization - Respiratory 1: Respiratory sensitisation – Category 1

Sensitization - Skin 1: Skin sensitisation – Category 1

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