

01056-1015

**SAFETY DATA SHEET****SECTION 1: PRODUCT AND COMPANY IDENTIFICATION****PRODUCT NAME:** H-100 ENAMEL HARDENER**MANUFACTURER:**

COVENTRY COATINGS CORP.

dba Ronan Paints

89 Taft Ave.

Newburgh, NY 12550

USA: 1-800-307-7951 or (845) 562-5666

**EMERGENCY CONTACT FOR****SPILL, FIRE, EXPLOSION:****CHEM-TREC 1-800-424-9300****PRODUCT CODES:** H-100**SECTION 2: HAZARD IDENTIFICATION**

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

**Classification:**

FLAMMABLE LIQUIDS:

Category 2

ACUTE TOXICITY: Inhalation

Category 4

SKIN SENSITIZER:

Category 1

EYE IRRITATION:

Category 2

SPECIFIC TARGET ORGAN TOXICITY:

SINGLE EXPOSURE:

Category 3 (Central Nervous System, Respiratory)

**GHS Label Elements:****PICTOGRAMS****SIGNAL WORD: DANGER****Hazard Statements:**

Highly flammable liquid and vapor. Harmful if inhaled. Causes serious eye irritation. May cause respiratory irritation, drowsiness or dizziness. May cause an allergic skin reaction.

**Precautionary Statements:****Prevention:**

Read all warning statements on all labels for this and any other products to be mixed with it prior to use. Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use explosion-proof electrical, ventilating, lighting and other tools or equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing dust, fumes, gas, mist, vapors or spray. Wash skin thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves, protective clothing and eye protection/face protection. Wear an appropriate, properly fitted fresh-air supplied respirator (NIOSH-approved TC19 or equivalent) during and after application, and until all organic solvent vapors and spray mists are exhausted, or any time airborne contaminant levels exceed exposure limits indicated in Section 8.

**Response:**

IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting. IF ON SKIN (or hair): Wash with plenty of water. Take off immediately all contaminated clothing and wash before reuse. Rinse skin with water/shower. If skin irritation or rash occurs: Get medical attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do, continue rinsing. If eye irritation persists: Get medical attention. If exposed or concerned: Get medical attention. Call a POISON CENTER, doctor or physician if you feel unwell.

If medical advice is needed, have product container/label and Safety Data Sheet at hand.

In case of fire: Use appropriate method to extinguish, see Section 5.

**Storage:**

Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store locked up.

**Disposal:**

Dispose of contents and container with an approved waste disposal facility in compliance with local, regional and national regulations. Avoid release to environment. If spilled, contain material with inert absorbent, in compliance with local, regional and national regulations.

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**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

Ingredient Name	CAS Number	% by Weight
Homopolymer of Hexamethylene Diisocyanate	28182-81-2	25 – 50 %
4-Methyl-2-Pentanone	108-10-1	25 – 50 %
2-Heptanone	110-43-0	10 – 25 %
N-Butyl Acetate	123-86-4	2.5 – 10 %
Light Aromatic Solvent Naphtha	64742-95-6	1.0 – 2.5 %

**SECTION 4: FIRST AID MEASURES**

<b>Eyes:</b>	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes, check for and remove contact lenses. Seek immediate medical attention.
<b>Skin:</b>	Remove contaminated clothing. Immediately flush exposed area with large amounts of water. If symptoms persist, seek medical attention. Wash clothing separately and clean shoes before reuse.
<b>Ingestion:</b>	Do NOT induce vomiting. Seek immediate medical attention, contact physician or poison control center. Never give anything by mouth to an unconscious person.
<b>Inhalation:</b>	Seek immediate medical attention. Remove from exposure to fresh air. If not breathing or if breathing is irregular, provide artificial respiration or oxygen by trained personnel; rescuers should put on appropriate protective gear. To prevent aspiration, keep head below knees.
<b>Notes to Physician:</b>	Potential danger from aspiration must be weighed against possible oral toxicity when deciding whether to induce vomiting.

**SECTION 5: FIRE FIGHTING MEASURES****Suitable Extinguishing Media:**

Carbon Dioxide, Dry Chemical, Alcohol-resistant Foam. Do not use water, material will float and may ignite on surface of water.

**Fire Fighting Procedures:**

Fight as volatile liquid fire. Wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent) and full protective gear. Eliminate all sources of ignition. Evacuate unnecessary personnel. Use water spray to cool containers with caution, avoid spreading burning liquid. Water runoff can cause environmental damage. Dike and collect water used to fight fire.

**Unusual Fire and Explosion Hazard:**

Highly flammable liquid and vapor. This material may be ignited by heat, sparks, flame or static electricity. In a fire or if heated, a pressure increase will occur and the container may burst. Empty containers retain product residue (liquid and/or vapor) and can be dangerous. DO NOT pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. Do not reuse container.

**SECTION 6: ACCIDENTAL RELEASE MEASURES****Environmental Precautions:**

Avoid runoff and contact with soil, drains, sewers and waterways. Contact appropriate authority if spill is in excess of reportable quantity, in compliance with local and national regulations.

**Personal Precautions:**

Eliminate all ignition sources. No smoking, do not use flares. Contact emergency personnel. Evacuate the spill area and keep unnecessary, unprotected personnel away. Do not breathe vapors, use suitable personal protective equipment. Do not touch or walk through spilled material. Prevent additional discharge of material if able to do so safely. Ventilate spill area.

**Method of Cleaning Up:**

Absorb spilled material with an inert dry material and place in an appropriate waste disposal container. Contaminated absorbent material may pose the same hazard as the spilled product. Dispose of product in accordance with local, county, state and federal regulations.

**SECTION 7: HANDLING AND STORAGE****Precautions for Safe Handling:**

Use only in a well-ventilated area, with appropriate personal protective equipment, (see section 8), obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Keep in the original container. Keep container tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Hygienic Practices: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Wash hands and face with soap and water after handling and before eating, drinking, or smoking. Remove contaminated clothing and protective equipment before entering eating areas. Launder contaminated clothing before reusing. Uniforms or clothing containing paint residue should not be laundered with household garments.

**Conditions for Safe Storage, Including Incompatibilities:**

Do not store below 41°F (5°C). Do not store above 90°F (32°C). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool, well-ventilated area, away from incompatible materials. Store locked up. Keep containers tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and be kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

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**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

Ingredient Name	CAS Number	Exposure Limits
Homopolymer of Hexamethylene Diisocyanate	28182-81-2	Data not available
4-Methyl-2-Pentanone	108-10-1	ACGIH TWA 20 PPM OSHA PEL TWA 100 PPM
2-Heptanone	110-43-0	ACGIH TWA 50 PPM OSHA PEL TWA 100 PPM
N-Butyl Acetate	123-86-4	ACGIH TWA 150 PPM OSHA PEL TWA 150 PPM
Light Aromatic Solvent Naphtha	64742-95-6	Data not available

**Engineering Controls:** Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits.

**Personal Protective Equipment**

**Eyes and Face:** Use chemical splash goggles and face shield (ANSI Z87.1 or approved equivalent).

**Skin:** Wear impervious gloves to prevent contact with the skin. Where contact is likely, wear chemical resistant gloves, a chemical suit, long sleeves, rubber boots, and chemical safety goggles plus a face shield.

**Respiratory:** Wear an appropriate, properly fitted fresh-air supplied respirator, (NIOSH-approved TC-19C or equivalent), during and after application, until all organic vapors and spray mists are exhausted or any time airborne contaminate levels exceed exposure limits. Follow respirator manufacturer's directions and observe OSHA regulations for respirator use (29 CFR 1910.134).

**Work Hygienic Practices:** Do not eat, drink, or smoke in areas where this material is used. Avoid breathing vapors, fumes or mist. Remove contaminated clothing and wash before reuse. Wash thoroughly after handling. Wash hands before eating. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

Physical State:	Liquid
Color:	Clear liquid
Odor:	Typical
pH:	Not available
Flash Point and Method:	65°F TCC
Boiling Range:	220 – 340°F
Density:	0.964 g/cm <sup>3</sup>
Evaporation Rate:	Not available
Vapor Pressure:	Not available
% Solubility in Water:	Not available
Auto-Ignition Temperature:	Not available
Regulatory VOC (as supplied):	491 grams/liter (4.1 lbs./gl)
Actual VOC (as supplied):	491 grams/liter (4.1 lbs./gl)

**SECTION 10: STABILITY AND REACTIVITY**

**Hazardous Polymerization:** Not determined.

**Conditions to Avoid:** Avoid impact or friction. Keep away from heat, sparks, flames, and other sources of ignition. Do not smoke; extinguish all flames and pilot lights. Turn off stoves, heaters, electrical motors, tools, appliances and any other possible sources of ignition prior to spray application, during use and until all vapors are exhausted from the area. Minimize exposure to air. Avoid static discharge.

**Hazardous Decomposition Products:** Toxic gases/fumes are given off during burning or thermal decomposition. During combustion carbon monoxide may be formed. During combustion carbon dioxide may be formed. Decomposition releases nitrogen oxides. Isocyanate-containing vapors are a hazardous decomposition product.

**Incompatible Materials:** Prevent contact with strong oxidizing agents, aldehydes, inorganic acids and halogens. Avoid contact with moisture and/or water, metals, amines, concentrated sulfuric or nitric acid and alcohols. Keep away from strong bases and acids.

**SECTION 11: TOXICOLOGICAL INFORMATION**

Available ingredient data is listed below:

**Homopolymer of Hexamethylene Diisocyanate (28182-81-2)**

Acute Dermal Toxicity	LD50: >2000 mg/kg	
Acute Inhalation Toxicity	LC50: >10. mg/L	Toxic if inhaled.
Acute Oral Toxicity	LD50: >2500 mg/kg	
Skin Sensitizer	May cause an allergic skin reaction.	
Respiratory Sensitizer	May cause allergy or asthma symptoms or breathing difficulties if inhaled.	
Target Organ, Single Exposure	Respiratory	May cause respiratory irritation.

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**4-Methyl-2-Pentanone (108-10-1)**

Acute Dermal Toxicity	LD50: >2000 mg/kg	
Acute Inhalation Toxicity	LC50: 16.4 mg/L	Harmful if inhaled.
Acute Oral Toxicity	LD50: >2080 mg/kg	
Target Organ, Single Exposure	Respiratory	May cause respiratory irritation.
Eye Irritation	Causes serious eye irritation.	
Carcinogenicity Classification	IARC Group 2B	Possibly carcinogenic to humans.

**N-Butyl Acetate (123-86-4)**

Acute Dermal Toxicity	LD50: >16000 mg/kg	
Acute Inhalation Toxicity	LC50: >20. mg/L	
Acute Oral Toxicity	LD50: 14130 mg/kg	
Target Organ, Single Exposure	Central Nervous System	May cause drowsiness/dizziness.

**2-Heptanone (110-43-0)**

Acute Dermal Toxicity	LD50: >2000 mg/kg	
Acute Inhalation Toxicity	LC50: >16.7 mg/L	Harmful if inhaled.
Acute Oral Toxicity	LD50: >1600 mg/kg	Harmful if swallowed.
Target Organ, Single Exposure	Respiratory, Central Nervous System	May cause respiratory irritation, drowsiness or dizziness.

**Light Aromatic Solvent Naphtha (64742-95-6)**

Acute Dermal Toxicity	LD50: >3160 mg/kg	
Acute Inhalation Toxicity	LC50: >20.0 mg/L	
Acute Oral Toxicity	LD50: 3492 mg/kg	
Eye Irritation	Causes serious eye irritation.	
Skin Irritation	Causes skin irritation.	
Target Organ, Single Exposure	Respiratory, Central Nervous System	May cause respiratory irritation, drowsiness or dizziness.
Target Organ, Repeated Exposure	Central Nervous System	May cause damage to organs through prolonged or repeated exposure.
Carcinogenicity Classification	Suspected of causing cancer.	

**SECTION 12: ECOLOGICAL INFORMATION**

No data available.

**SECTION 13: DISPOSAL CONSIDERATIONS****Recommendations:**

The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection, waste disposal legislation and any regional local authority requirements. Empty containers should be disposed of through an approved waste management facility. Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261, ensure conformity to all applicable hazardous waste regulations, and consult your local or regional authorities.

**SECTION 14: TRANSPORT INFORMATION****Land Transport (DOT):**

UN PROPER SHIPPING NAME:	PAINT RELATED MATERIAL
TRANSPORT HAZARD CLASS:	3
UN NUMBER:	1263
PACKING GROUP:	II

The listed transportation information applies only to ground transport and does not address regulatory variations due to changes in package size, mode of shipment or other regulatory descriptors. This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. It is the responsibility of the shipper and the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material. Local Government regulations and rules should prevail.

**SECTION 15: REGULATORY INFORMATION****United States Federal Regulations:****EPCRA - Emergency Planning and Community Right-to-Know Act****SARA Section 311/312 Hazard Category - 40 CFR 370.2**

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Fire Hazard, Reactive Hazard, Acute Health Hazard, Chronic Health Hazard

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**SARA 313 Components - 40 CFR 372.65**

Reporting requirements of Section 313 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and 40 CFR 372:

<u>Chemical Name</u>	<u>CAS Number</u>
4-Methyl-2-Pentanone	108-10-1
1,2,4 Trimethylbenzene	95-63-6
1,6-Hexamethylene Diisocyanate	822-06-0
Cumene	98-82-8
Xylene	1330-20-7
Ethylbenzene	100-41-4

**STATE REGULATIONS:****California Proposition 65:** **WARNING:** Cancer – [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

<u>Chemical Name</u>	<u>CAS Number</u>
4-Methyl-2-Pentanone	108-10-1
Cumene	98-82-8
Ethylbenzene	100-41-4

**New Jersey, Pennsylvania, Massachusetts Right-To-Know Component Information**

<u>Chemical Name</u>	<u>CAS Number</u>
HOMOPOLYMER OF HEXAMETHYLENE DIISOCYANATE	28182-81-2
4-METHYL-2-PENTANONE	108-10-1
N-BUTYL ACETATE	123-86-4
2-HEPTANONE	110-43-0
XYLENE	1330-20-7
ETHYLBENZENE	100-41-4
LIGHT AROMATIC SOLVENT NAPHTHA	64742-95-6
1,2,4 TRIMETHYLBENZENE	95-63-6
1,6-HEXAMETHYLENE DIISOCYANATE	822-06-0
CUMENE	98-82-8

**SECTION 16: OTHER INFORMATION****HMIS RATING**

Health:	2
Flammability:	3
Personal Hazard:	1
Personal Protection:	J

0 = not significant, 1 = Slight, 2 = Moderate, 3 = High, 4 = Extreme, \* = Chronic

DISCLAIMER: The information and recommendations set forth herein are presented in good faith and believed to be correct as of this date. Coventry Coatings Corp. makes no representation, warranty or guarantee as to the completeness or accuracy thereof. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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