
SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier
Trade name: Hetron™ 922 L-25 epoxy vinyl ester resin
™ Trademark, Ashland or its subsidiaries, registered in various countries

Recommended use of the chemical and restrictions on use

<table>
<thead>
<tr>
<th>Details of the supplier of the safety data sheet</th>
<th>Emergency telephone number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ashland</td>
<td>1-800-ASHLAND (1-800-274-5263)</td>
</tr>
<tr>
<td>P.O. Box 2219</td>
<td></td>
</tr>
<tr>
<td>Columbus, OH 43216</td>
<td></td>
</tr>
<tr>
<td>United States of America</td>
<td></td>
</tr>
<tr>
<td>EHS Customer <a href="mailto:Requests@ashland.com">Requests@ashland.com</a></td>
<td></td>
</tr>
</tbody>
</table>

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification
Flammable liquids: Category 3
Combustible Dust: Category 2
Skin irritation: Category 2
Eye irritation: Category 2A
Skin sensitization: Category 1
Reproductive toxicity: Category 2
Specific target organ systemic toxicity - single exposure: Category 3 (Respiratory system)
Specific target organ systemic toxicity - repeated exposure (Inhalation): Category 1 (Auditory system)
Hazard pictograms:

- Flammable liquid and vapor
- Skin hazard
- Warning

Signal Word: Danger

Hazard Statements:
- Flammable liquid and vapor.
- May form combustible dust concentrations in air.
- Causes skin irritation.
- May cause an allergic skin reaction.
- Causes serious eye irritation.
- May cause respiratory irritation.
- Suspected of damaging fertility or the unborn child.
- Causes damage to organs (Auditory system) through prolonged or repeated exposure if inhaled.

Precautionary Statements:

**Prevention:**
- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- Keep container tightly closed.
- Ground/bond container and receiving equipment.
- Use explosion-proof electrical/ ventilating/ lighting/ equipment.
- Use only non-sparking tools.
- Take precautionary measures against static discharge.
- Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.
- Wash skin thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Use only outdoors or in a well-ventilated area.
- Contaminated work clothing must not be allowed out of the workplace.
- Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:**
- 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. Call a POISON CENTER or doctor/ physician if you feel unwell.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- IF exposed or concerned: Get medical advice/ attention.
- If skin irritation or rash occurs: Get medical advice/ attention.
- If eye irritation persists: Get medical advice/ attention.
- Take off contaminated clothing and wash before reuse.
- In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

**Storage:**
- Store in a well-ventilated place. Keep container tightly closed.
Store in a well-ventilated place. Keep cool.
Store locked up.
**Disposal:**
Dispose of contents/ container to an approved waste disposal plant.

**Other hazards**
Static Accumulating liquid

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Substance / Mixture</th>
<th>Chemical nature</th>
<th>Hazardous components</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mixture</td>
<td>Static Accumulator</td>
<td>STYRENE</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Chemical Name</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CAS-No.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Classification</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Concentration (%)</td>
</tr>
<tr>
<td>STYRENE</td>
<td>100-42-5</td>
<td>Flam. Liq. 3; H226</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Acute Tox. 4; H332</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Skin Irrit. 2; H315</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Eye Irrit. 2A; H319</td>
</tr>
<tr>
<td></td>
<td></td>
<td>STOT SE 3; H335</td>
</tr>
<tr>
<td></td>
<td></td>
<td>STOT RE 1; H372</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Asp. Tox. 1; H304</td>
</tr>
<tr>
<td></td>
<td>46.11</td>
<td></td>
</tr>
<tr>
<td>COBALT NAPHTHENATE</td>
<td>61789-51-3</td>
<td>Skin Sens. 1; H317</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Repr. 2; H361</td>
</tr>
<tr>
<td></td>
<td>0.30</td>
<td></td>
</tr>
</tbody>
</table>

### SECTION 4. FIRST AID MEASURES

**General advice**
Move out of dangerous area.
Call a POISON CENTRE or doctor/physician if exposed or you feel unwell.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.

If inhaled:
- Move to fresh air.
- IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.
- Keep patient warm and at rest.
- If unconscious place in recovery position and seek medical advice.

In case of skin contact:
- Remove contaminated clothing. If irritation develops, get medical attention.
- If on skin, rinse well with water.
- Wash contaminated clothing before re-use.
- If on clothes, remove clothes.

In case of eye contact:
- Immediately flush eye(s) with plenty of water.
- Remove contact lenses.
- Protect unharmed eye.

If swallowed:
- Obtain medical attention.
- Do not give milk or alcoholic beverages.
- Never give anything by mouth to an unconscious person.
- If symptoms persist, call a physician.

Most important symptoms and effects, both acute and delayed:
- Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include:
  - stomach or intestinal upset (nausea, vomiting, diarrhea)
  - irritation (nose, throat, airways)
  - confusion
- Causes skin irritation.
- May cause an allergic skin reaction.
- Causes serious eye irritation.
- May cause respiratory irritation.
- Suspected of damaging fertility or the unborn child.
- Causes damage to organs through prolonged or repeated exposure if inhaled.

Notes to physician:
- No hazards which require special first aid measures.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media:
- Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
  - Water spray
  - Foam
  - Alcohol-resistant foam
  - Carbon dioxide (CO2)
  - Dry chemical

Unsuitable extinguishing media:
- High volume water jet
media

Specific hazards during firefighting: Organic dusts at sufficient concentration can form explosive mixtures in air. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products: carbon dioxide and carbon monoxide toxic fumes Hydrocarbons

Specific extinguishing methods:

Product is compatible with standard fire-fighting agents.

Further information: Do not use a solid water stream as it may scatter and spread fire. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Use a water spray to cool fully closed containers. Polymerization will take place under fire conditions. If polymerization occurs in a closed container, there is a possibility it will rupture violently. Cool storage container with water, if exposed to fire.

Special protective equipment for firefighters: In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Evacuate personnel to safe areas. Remove all sources of ignition. Use personal protective equipment. Ensure adequate ventilation. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.

Environmental precautions: Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.
Methods and materials for containment and cleaning up:
Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

Other information:
Comply with all applicable federal, state, and local regulations. Suppress (knock down) gases/vapours/mists with a water spray jet.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling:
Open drum carefully as content may be under pressure. Avoid formation of aerosol. Provide sufficient air exchange and/or exhaust in work rooms. Do not breathe vapours/dust. Do not smoke. Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used. Container hazardous when empty. Take precautionary measures against static discharges. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. Smoking, eating and drinking should be prohibited in the application area. For personal protection see section 8. Dispose of rinse water in accordance with local and national regulations. Secondary operations, such as grinding and sanding, may produce dust. Maintain good housekeeping. Do not permit dust layers to accumulate, for example, on floors, ledges, and equipment, in order to avoid any potential for dust explosion hazards.

For further guidance on prevention of dust explosions, refer to National Fire Protection Association (NFPA) 654: “Standard for the Prevention of Fire and Dust Explosions, from the Manufacturing, Processing and Handling of Combustible Particulate Solids”.

Conditions for safe storage:
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. Observe label precautions. No smoking. Electrical installations / working materials must comply with the technological safety standards.
### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Components with workplace control parameters**

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Value type (Form of exposure)</th>
<th>Control parameters / Permissible concentration</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>STYRENE</td>
<td>100-42-5</td>
<td>TWA</td>
<td>20 ppm</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td></td>
<td>STEL</td>
<td>40 ppm</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td></td>
<td>REL</td>
<td>50 ppm, 215 mg/m³</td>
<td>NIOSH/GUIDE</td>
</tr>
<tr>
<td></td>
<td></td>
<td>STEL</td>
<td>100 ppm, 425 mg/m³</td>
<td>NIOSH/GUIDE</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>100 ppm</td>
<td>OSHA/Z2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Ceiling</td>
<td>200 ppm</td>
<td>OSHA/Z2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MAX. CONC</td>
<td>600 ppm</td>
<td>OSHA/Z2</td>
</tr>
</tbody>
</table>

**Biological occupational exposure limits**

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Control parameters</th>
<th>Biological specimen</th>
<th>Samplin g time</th>
<th>Permissible concentration</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>STYRENE</td>
<td>100-42-5</td>
<td>styrene</td>
<td>Venous blood</td>
<td>Sampling time: End of shift.</td>
<td>0.2 mg/l</td>
<td></td>
</tr>
</tbody>
</table>

Remarks: Semi-quantitative

Mandelic acid plus phenylglyoxylic acid
Creatinine in urine
Sampling time: End of shift.
400 mg/g

Remarks: Nonspecific

**COBALT NAPHTHENATE**

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Control parameters</th>
<th>Biological specimen</th>
<th>Samplin g time</th>
<th>Permissible concentration</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>STYRENE</td>
<td>100-42-5</td>
<td>styrene</td>
<td>Venous blood</td>
<td>Sampling time: End of shift.</td>
<td>0.2 mg/l</td>
<td></td>
</tr>
</tbody>
</table>

Remarks: Semi-quantitative

Mandelic acid plus phenylglyoxylic acid
Creatinine in urine
Sampling time: End of shift.
400 mg/g

Remarks: Nonspecific

COBALT NAPHTHENATE

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Control parameters</th>
<th>Biological specimen</th>
<th>Samplin g time</th>
<th>Permissible concentration</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>COBALT NAPHTHENATE</td>
<td>61789-51-3</td>
<td>Cobalt</td>
<td>Urine</td>
<td>Sampling time: End of shift at end of work week.</td>
<td>15 µg/l</td>
<td></td>
</tr>
</tbody>
</table>

Remarks: Background

Cobalt
Blood
Sampling time: End of shift at end of work week.
1 µg/l

Remarks: Background, Semi-quantitative

**Engineering measures**

Provide sufficient mechanical (general and/or local exhaust)
ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.
Provide appropriate exhaust ventilation at places where dust is formed.

**Personal protective equipment**

**Respiratory protection**

In the case of vapour formation use a respirator with an approved filter.

A NIOSH-approved air-purifying respirator with an appropriate cartridge and/or filter may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits (if applicable) or if overexposure has otherwise been determined. Protection provided by air-purifying respirators is limited. Use a positive pressure, air-supplied respirator if there is any potential for uncontrolled release, exposure levels are not known or any other circumstances where an air-purifying respirator may not provide adequate protection.

**Hand protection**

Remarks: The suitability for a specific workplace should be discussed with the producers of the protective gloves.

**Eye protection**

Wear chemical splash goggles when there is the potential for exposure of the eyes to liquid, vapor or mist.

**Skin and body protection**

Wear as appropriate:
impervious clothing
Safety shoes
Flame-resistant clothing

Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Discard gloves that show tears, pinholes, or signs of wear.
Wear resistant gloves (consult your safety equipment supplier).

**Hygiene measures**

Wash hands before breaks and at the end of workday.
When using do not eat or drink.
When using do not smoke.

---

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

**Physical state**

liquid

**Colour**

amber

**Odour**

pungent
Odour Threshold : No data available
pH : No data available
Melting point/freezing point : No data available
Boiling point/boiling range : 293 °F / 145 °C
Flash point : 84.9 °F / 29.4 °C
   Method: Seta closed cup
Evaporation rate : No data available
Flammability (solid, gas) :
   May form combustible dust concentrations in air (during processing).
Flammability (liquids) : Static Accumulating liquid
Flammability (liquids) :
   Upper explosion limit : 6.6 %(V)
   Lower explosion limit : 1.1 %(V)
Vapour pressure : 0.853 kPa (25 °C)
Relative vapour density : No data available
Relative density : No data available
Density : 1.03 g/cm³ (25 °C)
Solubility(ies)
   Water solubility : insoluble
   Solubility in other solvents : No data available
Partition coefficient: n-octanol/water : No data available
Thermal decomposition : No data available
Viscosity
   Viscosity, dynamic : No data available
   Viscosity, kinematic : > 20.5 mm²/s (40 °C)
Oxidizing properties : No data available
SECTION 10. STABILITY AND REACTIVITY

Reactivity: No decomposition if stored and applied as directed.

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous reactions: Hazardous polymerisation may occur. Vapours may form explosive mixture with air. This product does not present a dust explosion hazard as delivered. However, fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source, is a potential dust explosion hazard.

Conditions to avoid: Heat, flames and sparks.
Exposure to air.
Exposure to sunlight.

Incompatible materials: Acids
aluminum
aluminum chloride
Bases
Copper
Copper alloys
halogens
iron chloride
metal salts
strong bases
Strong oxidizing agents
Peroxides

Hazardous decomposition products: carbon dioxide and carbon monoxide
Hydrocarbons

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure: Inhalation
Skin contact
Eye Contact
Ingestion

Acute toxicity: Not classified based on available information.

Components:
STYRENE:
Acute oral toxicity: LD50 Oral (Rat): > 2,000 mg/kg
Hetron™ 922 L-25 epoxy vinyl ester resin
™ Trademark, Ashland or its subsidiaries, registered in various countries 25687

Acute inhalation toxicity: LC 50 (Rat): 11.8 mg/l, 2770 ppm
  Exposure time: 4 h
  Test atmosphere: vapour
  No observed adverse effect level (Humans): 100 ppm
  Exposure time: 7 h
  Test atmosphere: vapour

Acute dermal toxicity: LD 50 (Rat): > 2,000 mg/kg
  Method: OECD Test Guideline 402
  Assessment: No adverse effect has been observed in acute dermal toxicity tests.

COBALT NAPHTHENATE:
Acute oral toxicity: LD 50 (Rat, female): 3,129 mg/kg
  Method: OECD Test Guideline 425
  GLP: yes

Acute dermal toxicity: LD50 (Rat): Expected > 2,000 mg/kg
  Remarks: No adverse effect has been observed in acute toxicity tests.
  Based on similar product.

**Skin corrosion/irritation**
Causes skin irritation.

**Product:**
Remarks: May cause skin irritation and/or dermatitis.

Result: Repeated exposure may cause skin dryness or cracking.

**Components:**
**STYRENE:**
Species: Rabbit
Result: Irritating to skin

COBALT NAPHTHENATE:
Species: reconstructed human epidermis (RhE)
Method: OECD Test Guideline 439
Result: Possibly irritating to skin
GLP: yes

**Serious eye damage/eye irritation**
Causes serious eye irritation.

**Product:**
Remarks: Vapours may cause irritation to the eyes, respiratory system and the skin., Causes serious eye irritation.

**Components:**
**STYRENE:**
Result: Irritating to eyes
Remarks: Vapour during processing may be irritating to the respiratory tract and to the eyes.
COBALT NAPHTHENATE:
Species: Rabbit
Result: Not irritating to eyes
Method: OECD Test Guideline 405
GLP: yes

Respiratory or skin sensitisation
Skin sensitisation: May cause an allergic skin reaction.
Respiratory sensitisation: Not classified based on available information.

Components:
STYRENE:
Exposure routes: Skin contact
Species: Guinea pig
Assessment: Does not cause skin sensitisation.
Result: negative

Exposure routes: inhalation (vapour)
Species: Humans
Assessment: Does not cause respiratory sensitisation.
Result: negative

COBALT NAPHTHENATE:
Test Type: Local lymph node assay
Exposure routes: Dermal
Species: Mouse
Assessment: May cause sensitisation by skin contact.

Germ cell mutagenicity
Not classified based on available information.
Carcinogenicity
Not classified based on available information.

Product:
Carcinogenicity - : Styrene has been tested for carcinogenicity in rats and mice.
Assessment : Styrene caused lung tumors in mice only. These tumors are not considered to be relevant to humans.

Reproductive toxicity
Suspected of damaging fertility or the unborn child.

Components:
COBALT NAPHTHENATE:
Reproductive toxicity - : Some evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments.
Assessment

STOT - single exposure
May cause respiratory irritation.

Components:
STYRENE:
Assessment: May cause respiratory irritation.

STOT - repeated exposure
Causes damage to organs (Auditory system) through prolonged or repeated exposure if inhaled.

Components:
STYRENE:
Exposure routes: inhalation (vapour)
Target Organs: Auditory system
Assessment: Causes damage to organs through prolonged or repeated exposure.

**Repeated dose toxicity**

**Components:**
STYRENE:
Species: Human
85 mg/m3
Application Route: inhalation (vapour)

Species: Human
615 mg/kg
Application Route: Skin contact

**Aspiration toxicity**
Not classified based on available information.

**Components:**
STYRENE:
May be fatal if swallowed and enters airways.

**Further information**

**Product:**
Remarks: Solvents may degrease the skin.

**Carcinogenicity:**

**IARC**
Group 2B: Possibly carcinogenic to humans

STYRENE 100-42-5

COBALT NAPHTHENATE 61789-51-3

**OSHA**
No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**NTP**
Reasonably anticipated to be a human carcinogen

STYRENE 100-42-5

---

**SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

**Components:**
STYRENE:

Toxicity to fish : LC 50 (Pimephales promelas (fathead minnow)): 4.02 mg/l
Exposure time: 96 h

Toxicity to daphnia and other : EC 50 (Water flea (Daphnia magna)): 4.7 mg/l
aquatic invertebrates Exposure time: 48 h
Toxicity to algae : ErC50 (Pseudokirchneriella subcapitata (green algae)): 4.9 mg/l Exposure time: 72 h
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Water flea (Daphnia magna)): 1.01 mg/l Exposure time: 21 d
Toxicity to bacteria : EC 50 (activated sludge): ca. 500 mg/l Exposure time: 0.5 h
Toxicity to soil dwelling organisms : NOEC (Eisenia fetida (earthworms)): 34 mg/kg Exposure time: 14 d Method: OECD Test Guideline 207

COBALT NAPHTHENATE:
Ecotoxicology Assessment
Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

Persistence and degradability
Components: STYRENE:
Biodegradability : Result: Readily biodegradable
Biodegradation: > 60 % Exposure time: 10 d

Bioaccumulative potential
Components: STYRENE:
Bioaccumulation : Bioconcentration factor (BCF): < 100
Partition coefficient: n-octanol/water : log Pow: 2.96 (25 °C)

Mobility in soil
Components: STYRENE:
Distribution among environmental compartments : Koc: 352

Other adverse effects
Product: Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Toxic to aquatic life.
Components:

STYRENE: Results of PBT and vPvB assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

General advice : The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company.

Dispose of in accordance with all applicable local, state and federal regulations.

Contaminated packaging : Empty remaining contents. Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.

SECTION 14. TRANSPORT INFORMATION

International transport regulations

<table>
<thead>
<tr>
<th>REGULATION</th>
<th>ID NUMBER</th>
<th>PROPER SHIPPING NAME</th>
<th>HAZARD CLASS</th>
<th>SUBSIDIARY HAZARDS</th>
<th>PACKING GROUP</th>
<th>MARINE POLLUTANT / LTD. QTY.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>U.S. DOT - ROAD</strong></td>
<td>UN 1866</td>
<td>Resin solution</td>
<td>3</td>
<td></td>
<td>III</td>
<td></td>
</tr>
<tr>
<td><strong>U.S. DOT - RAIL</strong></td>
<td>UN 1866</td>
<td>Resin solution</td>
<td>3</td>
<td></td>
<td>III</td>
<td></td>
</tr>
<tr>
<td><strong>U.S. DOT - INLAND WATERWAYS</strong></td>
<td>UN 1866</td>
<td>Resin solution</td>
<td>3</td>
<td></td>
<td>III</td>
<td></td>
</tr>
<tr>
<td><strong>TRANSPORT CANADA - ROAD</strong></td>
<td>UN 1866</td>
<td>RESIN SOLUTION</td>
<td>3</td>
<td></td>
<td>III</td>
<td></td>
</tr>
</tbody>
</table>
**SAFETY DATA SHEET**

**Hetron™ 922 L-25 epoxy vinyl ester resin**

Trademark, Ashland or its subsidiaries, registered in various countries

---

**TRANSPORT CANADA - RAIL**

<table>
<thead>
<tr>
<th>UN</th>
<th>RESIN SOLUTION</th>
<th>3</th>
<th>III</th>
</tr>
</thead>
</table>

**TRANSPORT CANADA - INLAND WATERWAYS**

<table>
<thead>
<tr>
<th>UN</th>
<th>RESIN SOLUTION</th>
<th>3</th>
<th>III</th>
</tr>
</thead>
</table>

**INTERNATIONAL MARITIME DANGEROUS GOODS**

<table>
<thead>
<tr>
<th>UN</th>
<th>RESIN SOLUTION</th>
<th>3</th>
<th>III</th>
</tr>
</thead>
</table>

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO**

<table>
<thead>
<tr>
<th>UN</th>
<th>Resin solution</th>
<th>3</th>
<th>III</th>
</tr>
</thead>
</table>

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER**

<table>
<thead>
<tr>
<th>UN</th>
<th>Resin solution</th>
<th>3</th>
<th>III</th>
</tr>
</thead>
</table>

**MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND WASTES**

<table>
<thead>
<tr>
<th>UN</th>
<th>RESINA, SOLUCIONES DE</th>
<th>3</th>
<th>III</th>
</tr>
</thead>
</table>

*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

| Marine pollutant | yes |

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

---

**SECTION 15. REGULATORY INFORMATION**

**EPCRA - Emergency Planning and Community Right-to-Know Act**

**CERCLA Reportable Quantity**

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Component RQ (lbs)</th>
<th>Calculated product RQ (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>STYRENE</td>
<td>100-42-5</td>
<td>1000</td>
<td>2168.374261</td>
</tr>
</tbody>
</table>

**SARA 311/312 Hazards**

- Reactivity Hazard
- Acute Health Hazard
- Fire Hazard
- Chronic Health Hazard
Hetron™ 922 L-25 epoxy vinyl ester resin
Trademark, Ashland or its subsidiaries, registered in various countries 25687

SARA 313 Component(s)

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS Number</th>
<th>Amount</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>STYRENE</td>
<td>100-42-5</td>
<td></td>
<td>46.11 %</td>
</tr>
</tbody>
</table>

California Prop 65

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS Number</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>BENZENE</td>
<td>71-43-2</td>
<td></td>
</tr>
</tbody>
</table>

WARNING! This product contains a chemical known to the State of California to cause cancer.

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS Number</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>BENZENE</td>
<td>71-43-2</td>
<td></td>
</tr>
<tr>
<td>TOLUENE</td>
<td>108-88-3</td>
<td></td>
</tr>
</tbody>
</table>

The components of this product are reported in the following inventories:

- **TSCA**: On TSCA Inventory
- **DSL**: This product contains the following components listed on the Canadian NDSL. All other components are on the Canadian DSL.
- **AUSTRI**: On the inventory, or in compliance with the inventory
- **ENCS**: On the inventory, or in compliance with the inventory
- **KECL**: On the inventory, or in compliance with the inventory
- **PICCS**: Not in compliance with the inventory
- **IECSC**: On the inventory, or in compliance with the inventory

Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)
SECTION 16. OTHER INFORMATION

Further information
Revision Date: 05/22/2015

<table>
<thead>
<tr>
<th>NFPA:</th>
<th>HMIS III:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammability</td>
<td>HEALTH</td>
</tr>
<tr>
<td>Health</td>
<td>3</td>
</tr>
<tr>
<td>Instability</td>
<td>2</td>
</tr>
<tr>
<td>Special hazard.</td>
<td></td>
</tr>
</tbody>
</table>

NFPA Flammable and Combustible Liquids Classification
Flammable Liquid Class IC

Full text of H-Statements referred to under sections 2 and 3.
H226 Flammable liquid and vapor.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H361 Suspected of damaging fertility or the unborn child.
H372 Causes damage to organs through prolonged or repeated exposure if inhaled.

Sources of key data used to compile the Safety Data Sheet
Ashland internal data including own and sponsored test reports
The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This SDS has been prepared by Ashland's Environmental Health and Safety Department (1-800-325-3751).
Hetron™ 922 L-25 epoxy vinyl ester resin
™ Trademark, Ashland or its subsidiaries, registered in various countries
25687

List of abbreviations and acronyms that could be, but not necessarily are, used in this safety data sheet:
ACGIH : American Conference of Industrial Hygienists
BEI : Biological Exposure Index
CAS : Chemical Abstracts Service (Division of the American Chemical Society).
CMR : Carcinogenic, Mutagenic or Toxic for Reproduction
FG : Food grade
GHS : Globally Harmonized System of Classification and Labeling of Chemicals.
H-statement : Hazard Statement
IATA : International Air Transport Association.
IATA-DGR : Dangerous Goods Regulation by the “International Air Transport Association” (IATA).
ICAQ : International Civil Aviation Organization
ICAO-TI (ICAO) : Technical Instructions by the “International Civil Aviation Organization”
IMDG : International Maritime Code for Dangerous Goods
ISO : International Organization for Standardization
logPow : octanol-water partition coefficient
LCxx : Lethal Concentration, for xx percent of test population
LDxx : Lethal Dose, for xx percent of test population.
ICxx : Inhibitory Concentration for xx of a substance
Ecxx : Effective Concentration of xx
N.O.S.: Not Otherwise Specified
OECD : Organization for Economic Co-operation and Development
OEL : Occupational Exposure Limit
P-Statement : Precautionary Statement
PBT : Persistent, Bioaccumulative and Toxic
PPE : Personal Protective Equipment
SEEL : Short-term exposure limit
STOT : Specific Target Organ Toxicity
TLV : Threshold Limit Value
TWA : Time-weighted average
vPvB : Very Persistent and Very Bioaccumulative
WEL : Workplace Exposure Level
CERCLA : Comprehensive Environmental Response, Compensation, and Liability Act
DOT : Department of Transportation
FIFRA : Federal Insecticide, Fungicide, and Rodenticide Act
HMIRC : Hazardous Materials Information Review Commission
HMIS : Hazardous Materials Identification System
NFPA : National Fire Protection Association
NIOSH : National Institute for Occupational Safety and Health
OSHA : Occupational Safety and Health Administration
PMRA : Health Canada Pest Management Regulatory Agency
RTK : Right to Know
WHMIS : Workplace Hazardous Materials Information System