

Material Safety Data Sheet For U.S. Only

MSDS #: 16145V1

WHMIS (Canada)



NFPA (USA) Fire

Specific hazard

Health

Health hazards

* 2
Flammability

3
1
Personal protection

HMIS (USA)

Protective clothing







B-2 D-2A D-2B

Section 1. Chemical product and company identification Trade name H800-ACL-25 Product type Polyester Resin Solution Chemical family Aromatic. Material uses Used in the manufacture of thermoset plastic parts. Manufacturer AOC, LLC In case of emergency 950 Highway 57 East Collierville, TN U.S.A. 38017 CHEMTREC (US): 24 hours/7 days (800) 424-9300 Website: www.aoc-resins.com CANUTEC (Canada): 24 hours/7 days (613) 996-6666 Phone Number: (901) 854-2800 8am-5pm (Central Time) Mon-Fri

Reactivity

| Section 2. Hazards ide | ntification |
|----------------------------------|--|
| OSHA status | This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). |
| Routes of entry | Eye contact, Skin contact, Inhalation, Ingestion |
| Potential acute health effects | Eyes: Severe eye irritant which may result in redness, burning, tearing and blurred vision. Skin: Skin irritant which may result in burning sensation. Repeated or prolonged skin contact may cause dermatitis. Ingestion: Ingestion may result in mouth, throat and gastrointestinal irritation, nausea, vomiting and diarrhea. Inhalation: Inhalation of spray mist or liquid vapors may cause upper respiratory irritation and possible central nervous system effects including headaches, nausea, impaired judgement and general weakness. |
| Potential chronic health effects | CARCINOGENIC EFFECTS: Styrene: Classified A4 (not classifiable for human or animal) by ACGIH. Classified 2B (possible for human) by IARC. An increased incidence of lung tumors was observed in mice from a recent inhalation study. The relevance of this finding is uncertain since data from other long-term animal studies and from epidemiology studies of workers exposed to styrene do not provide a basis to conclude that styrene is carcinogenic to humans. Lung effects have been observed in mouse studies following repeated exposure. Silica, Amorphous: Classified 3 (not classifiable for human) by IARC. Cobalt Compounds: Classified A3 (proven for animal) by ACGIH. Classified 2B (possible for human) by IARC. MUTAGENIC or TERATOGENIC EFFECTS: No known effect according to our database. |

| Section 3. Composition/information on ingredients | | | |
|---|----------------------------------|--------------------------|--|
| Name | CAS# | % by weight | |
| 1) Styrene 2) Silica, Amorphous 3) Cobalt Compounds | 100-42-5 7631-86-9 Mixture | 34.0 1 - 5 0.1 - 1 | |

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| Section 4. First aid me | asures | |
| Eye contact | Flush with a continuous flow of water for at least 15 Use of buffered baby shampoo will aid in removal. | minutes, occasionally lifting the upper and lower eyelids. Seek medical attention. |
| Skin contact | Gently and thoroughly wash the contaminated skin persists, seek medical attention. | with running water and non-abrasive soap. If irritation |
| Inhalation | Move the victim to a safe area as soon as possible. breathing is difficult, give oxygen. If the victim is no immediate medical attention. | Allow the victim to rest in a well-ventilated area. If breathing, perform mouth-to-mouth resuscitation. Seek |
| Ingestion | Do not induce vomiting. Seek immediate medical at | tention. |
| Section 5. Fire-fighting | measures | |
| The product is: | Flammable liquid, Class IC. | |
| Auto-ignition temperature | 914°F(490°C) Styrene | |
| Flash point | 87.6°F (31°C) Styrene | |
| Flammable limits | Lower: 0.9% Upper: 6.8% (Styrene) | |
| Products of combustion | May produce carbon monoxide, carbon dioxide, and | irritating or toxic vapors, gases or particulate. |
| Fire hazard | Flammable in the presence of open flames, sparks, o | r heat. |
| Explosion hazard | Can react with oxidizing materials. Explosive in the fit polymerize when container is exposed to heat (fire) a container which may cause the container to rupture was contained to rupture was a contained to rupture was con | orm of vapor when exposed to heat or flame. Material may not polymerization will increase pressure in a closed closed following. |
| Fire-fighting media and instructions | Wear self-contained breathing apparatus (SCBA) and | bon dioxide, foam, dry chemical or water fog to extinguish. |
| Section 6. Accidental re | elease measures | |
| Small spill | Absorb with an inert material and place in an appropri | ate waste disposal container. |
| Large spill | Stop leak if without risk. Eliminate all ignition sources possible and place the remainder in an appropriate w move away. Prevent entry into sewers or confined at | aste disposal container. Warn unauthorized personnel to |
| Section 7. Handling and | l storage | |
| Handling | with eyes, skin, and clothing. Wear appropriate personall containers when transferring the material. Empty expose to heat, flame, sparks or other ignition source electricity. Do not pressurize. Provide adequate safe | |
| Storage | Keep away from heat. Keep away from sources of ig ventilated place. Containers should be grounded. | ition. Keep container tightly closed. Keep in a cool, well- |

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| Section 8. Exposure controls/personal protection | | | | |
| Exposure limits | Silica, Amorphous Cobalt Compounds While the federal workplace exposure limit for styres proposal to voluntarily meet a PEL of 50 ppm on an | ACGIH TLV (United States, 2/2010). Absorbed through skin. TWA: 20 ppm 8 hour(s). TWA: 85 mg/m³ 8 hour(s). STEL: 40 ppm 15 minute(s). STEL: 170 mg/m³ 15 minute(s). OSHA PEL Z2 (United States, 11/2006). TWA: 100 ppm 8 hour(s). CEIL: 200 ppm 5 minute(s). NIOSH REL (United States, 6/2009). TWA: 50 ppm 10 hour(s). STEL: 100 ppm 15 minute(s). STEL: 100 ppm 15 minute(s). STEL: 425 mg/m³ 10 hour(s). STEL: 425 mg/m³ 15 minute(s). NIOSH REL (United States, 6/2009). TWA: 6 mg/m³ 10 hour(s). OSHA PEL (United States). TWA: 0.1 mg/m³ ACGIH TLV (United States). TWA: 0.02 mg/m³ and is 100 ppm, OSHA accepted the styrene industry's and 8 hours TWA | | |
| Engineering controls | | ntrols to keep the airborne concentrations of vapors below adequate safety showers and eyewashes in the area of | | |
| Personal protection | safety glasses. Skin: Avoid skin contact. Impervious gloves should or impervious jackets. Respiratory: Determine if airborne concentrations your company's PPE program and regulatory require respirator that provides adequate protection from the | be worn. Other items may include long sleeves, lab coats, are below the recommended exposure limits in accordance ements. If they are not, select a NIOSH-approved concentration levels encountered. Air-purifying respirators itive pressure, supplied-air respirators if there is potential | | |
| Personal protection in case of a large spill | | ots. Respiratory protection in accordance with OSHA thing apparatus should be used to avoid inhalation of the | | |
| | | | | |

| Section 9. Physical and | d chemical properties | | |
|----------------------------|--------------------------------|-------------|-----------|
| Physical state | Liquid. | | |
| Color | Amber. | | |
| Odor | Aromatic. | | |
| Molecular weight (g/mol) | 1000 to 15000 | | |
| Boiling point | 293°F(145°C) Styrene | | |
| Melting point | Not available. | | • • |
| pH (1% soln/water) | Not applicable. | | |
| Vapor pressure | 4.5 mm Hg@ 68°F (20°C) Styrene | | |
| Vapor density | 3.59 Styrene (Air = 1) | | |
| Specific gravity | 1.1 (Water = 1) | | |
| Water/oil dist. coeff. | Not available. | | |
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| Section 9. Physical and | chemical properties | | | | | |
| Evaporation rate | Not available. | | | | | |
| Odor threshold | 0.14 ppm Styrene | | | | | |
| Solubility in water | Slight. | 40. | | | - | |
| Dispersibility properties | Not dispersed in water. | | | | | |
| Section 10. Stability and | d reactivity | | | | <u></u> | |
| Stability | This product is normally stable, but c | an become uns | table at e | levated | temperatures. | |
| Instability temperature | >170°F (77°C) | <u>-</u> | | | | |
| Conditions of instability | Heat. | | | | | |
| Incompatibility with various substances | Polymerizes in the presence of organ | nic peroxides, o | kidizing m | aterials, | or heat. | - |
| Corrosivity | Our database contains no additional | remark on the o | orrosivity | of this p | product | |
| Section 11. Toxicologica | Il information | | | | | - |
| oxicity to animals | Name | Result | | Species | Dose | Exposure |
| | Styrene | LD50 Oral LC50 Inhala Vapor | tion | Rat Rat | 2650 mg/kg 5634.2 ppm | - 4 hours |
| | Cobalt Compounds | LD50 Oral | | Rat | 6171 mg/kg | - |
| pecial remarks on toxicity animals | Lung effects have been observed in m | nouse studies fo | llowing re | peated | exposure. | |
| pecial remarks on chronic ffects on humans | No additional remark. | | | | | |
| pecial remarks on other oxic effects on humans | No additional remark. | | | | | |
| Section 12. Ecological in | formation | | | | | |
| Ecotoxicity | Toxic to aquatic organisms. Should n concentrations above limits established | ot be released t d in regulations | o sewage or permi | system ts. | or other bodies of | water at |
| Section 13. Disposal con | nsiderations | | | | | |
| Vaste disposal | Recycle to process, if possible. Cons | ult your local or | regional | authoriti | es. Ignitable chara | octeristic. |
| Section 14. Transport inf | ormation | | · | | | |
| ООТ | UN1866; Resin Solution; 3; III. | | | La | bels | |
| DG | UN1866; Resin Solution; 3; III. | | | | | FLAMMABLE LIQUID |
| ATA/IMDG | UN1866; Resin Solution; 3; III | | | | | |
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| Section 14. Transport | information | |
| Additional information | US regulations require the reporting of spills when the specific components of this material. See CERCLA Quantities. | ne amount exceeds the Reportable Quantity (RQ) for in Section 15, Regulatory Information, for the Reportable |

Section 15. Regulatory information

Other regulations This section does not reference all applicable regulatory compliance lists.

TSCA: All ingredients are listed or compliant with T\$CA.

DSL: All ingredients are listed or compliant with the NSNR.

Proposition 65 Warning: This product contains a chemical(s) known to the State of California to cause

cancer, birth defects and/or reproductive harm.

SARA 302 component(s): None.

SARA 313 component(s): Styrene, Cobalt Compounds.

CERCLA(RQ): Styrene - 1000 lbs. (453.6 kg)

Section 16. Other information

Prepared by AOC, LLC - Corporate Regulatory Affairs.

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