



MATERIAL SAFETY DATA SHEET

AXSON NORTH AMERICA, Inc.
1611 Hults Drive,
Eaton Rapids, MI 48827 - U.S.A.
Tel. (517) 663-8191

Emergency Phone: 1-800-424-9300

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1- COMMERCIAL NAME : Aka-Seal 716 Epoxy Resin

Do not handle this material until the manufacturer's safety precautions have been read and understood! Regulations require that all employees be educated & trained on the Material Safety Data Sheets for all products with which they come in contact.

2- COMPOSITION/INFORMATION ON INGREDIENTS :

CHEMICAL NAME	C.A.S No.	QTY%
1. Xylene	1330-20-7	40-50
2. Bisphenol A Epoxy Resin	25068-38-6	45-60
3. N/A	N/A	N/A

3- HAZARDS IDENTIFICATION :

- *Flammable!*
- Irritating (moderate) to the eyes and skin.
- May cause sensitization by skin contact.
- Avoid breathing vapors/mists, especially when heated; may irritate the respiratory tract.

4- FIRST AID MEASURES :

- **Where a serious accident occurs, seek medical advice immediately.**
- **Change any soiled clothing immediately.**
- **In case of eye contact :** open eyelids as far as possible and flush with large quantities of water for at least fifteen minutes. Contact a physician, preferably an eye specialist.
- **In case of skin contact :** physically remove the product and wash skin thoroughly with soap and water. Seek medical attention if after-effects occur.
- **In case of swallowing :** **DO NOT** induce vomiting unless instructed by physician. Seek immediate medical attention.
- **In case of inhalation :** remove the patient from the contaminated area, give oxygen if necessary. Consult physician if after-effects occur.

5- FIRE-FIGHTING MEASURES :

5-1 Fire-extinguisher types :

- Use : chemical foam, CO₂, powder. Where the fire is of major proportions, water spray may also be used.
- Do not use : N/A

5-2 Specific fire and explosion risks :

- Material is flammable (Flash Point 79F); incomplete combustion or pyrolysis mainly produces oxides of carbon.
- LEL: 1.1% volume / UEL: 6.6% volume / Autoignition Temperature: 870F (465C) (Xylene)

5-3 specific protective measures during firefighting :

- Firefighting personnel should be equipped with insulated, autonomous respiratory protection equipment.

COMMERCIAL NAME : Aka-Seal 716 Epoxy Resin**6- ACCIDENTAL RELEASE MEASURES :****6-1 Individual protection :**

Wearing of suitable protective clothing and protective equipment for face/eyes; wear suitable respiratory equipment if ventilation is insufficient. Keep unprotected personnel away. Remove all sources of ignition. Ventilate area.

6-2 Environmental protection : Please see § 12

6-3 Decontamination procedures :

- Contain spilt material in order to avoid its transfer to sewers or rivers and streams.
- Physically remove the material.
- Cover material with sand, earth, or any other similar absorbent material in order to soak product up. The resulting mix may then be shoveled into cans and removed for disposal (see §13). Use non-sparking tools.

7- HANDLING AND STORAGE :**7-1 Handling :**

- Inform personnel of risks associated with the product, the precautions to be taken and procedures to follow where an accident occurs.
- Remove all sources of ignition, flame, or heat.
- Ensure proper ventilation.
- Observe personal hygiene rules to avoid contact with eyes and skin.
- Avoid dusts generated during machining (cured material); wear appropriate dust mask.
- Avoid inhaling vapors produced by the material, **especially when heated and/or sprayed.**
- Install showers and eye baths ("fountain" type).
- Ensure sufficient ventilation, including appropriate local air extraction, in order to comply with workplace exposure limits.
- Wash hands thoroughly at beginning of every work break and at the end of the working day.
- Work stations and the general working area must be kept perfectly clean.
- Avoid exposure to the product of persons having suffered from eczema or still suffering from any skin condition, wound, cut or irritation.

7-2 Storage :

- Keep the material hermetically sealed in its original packaging, protected from humidity and at a temperature between 59 and 77°F / 15 and 25°C in a well-ventilated storage facility.
- Ensure that the floor of the storage area is impermeable and concave in profile in order to provide effective containment.
- Keep the product away from food.
- Reproduce labeling on all new packs where original packaging is divided.

8- EXPOSURE CONTROLS/PERSONAL PROTECTION :**8-1 Exposure controls :**

Always maintain workplace airborne contaminants to the lowest possible levels.

8-2 Personal protection :

- respiratory protection : NO, when vapors are below PEL recommendations (See section 15).
- eye protection : YES, safety glasses with side shields, chemical goggles, and face shield.
- skin protection : YES, protective gloves, such as nitrile, butyl, PVC, rubber, or neoprene.

Do not mix work clothing and normal clothing. Wash hands thoroughly at beginning of every work break and at the end of the working day.

COMMERCIAL NAME : Aka-Seal 716 Epoxy Resin**9- PHYSICAL AND CHEMICAL PROPERTIES :**

Physical state : liquid

Color : amber

Odor : characteristic

pH : not established

Flash point : 79°F / 200°C

Decomposition temperature : > 392°F / 200°C

VOC Content : <106 g/l (10.5%) tested according to EPA Method 24 with Aka-Seal 716 Hardener

Specific gravity : 1.01

Solubility : in water (at 68°F) - insoluble; in solvents - YES (soluble in many organic solvents)

10- STABILITY AND REACTIVITY :**10-1 Dangerous decomposition by-products :**

- These are non-existent if storage and handling rules are followed (please see also § 5-2).
- Excessive heating over long periods causes resin degradation.

10-2 Hazardous reactions with :

- Exothermic reaction with products containing active hydrogen (especially acids, alcohols, bases, ammonia, amines, or polymercaptans, etc.).

11- TOXICOLOGICAL INFORMATION :

Effects on eyes : irritant to eyes

Effects on skin : may cause irritation to skin and/or mucous membranes. Sensitization possible through skin contact. **Xylene: LC50: 2000 mg/kg (rabbit)**

Inhalation : vapor or mists may cause respiratory and/or lung irritation.

Ingestion : harmful if ingested **Xylene: LD50: >500 mg/kg (rat)**

Carcinogenicity : not listed as a OSHA or ACGIH potential carcinogen; IARC rating 3

12- ECOLOGICAL INFORMATION :**Based on data for one or more similar products :**

- **Ecotoxicity :** moderately toxic to fish (Xylene).
- Toxicity for aquatic invertebrates in static acute conditions are probably high.
- **Biodegradability :** non-biodegradable.

Additional information : given that this product is non-biodegradable and is moderately toxic to fish, it can be considered to be a potential pollutant.

13- DISPOSAL CONSIDERATIONS :

All disposal methods must be in compliance with all Federal, State/Provincial and local regulations. Regulations may vary in different locations. Waste characteristics and compliance with applicable laws are the responsibility solely of the waste generator. Empty containers may not be disposed of unless any remaining material adhering to the internal walls has been removed (see § 6.3).

COMMERCIAL NAME : Aka-Seal 716 Epoxy Resin**14- TRANSPORT INFORMATION :****DOT Regulations/Information :**

Proper Shipping Name : Flammable Liquids, N.O.S. (Xylene)

Hazard Class : 3 (Flammable)

Packing Group : III

UN/NA Code : UN1993

Internal label : H0072020

15- REGULATORY INFORMATION :**US Federal Regulation :****Toxic Substances Control Act (TSCA) :**

All components are included in the EPA Toxic Substances Control Act Chemical Substance Inventory.

OSHA Hazard Communication Standard Hazard Classes : Flammable, Irritant

Hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.

OSHA PEL/TWA : Xylene (1330-20-7) TWA 100ppm/STEL 150ppm

ACGIH TLV/TWA : Xylene (1330-20-7) TWA 100ppm/STEL 150ppm

Additional Exposure Limits :

Xylene (1330-20-7) 8hr. time weighed PEL - 435mg/m³; STEL 15min - 655mg/m³

EPA SARA Title III Section 312 Hazard Class :

Immediate Health Hazard; Delayed Health Hazard

EPA SARA Title III Section 313 Toxic Chemicals : Xylene (1330-20-7)

Please refer to any other National regulations or measures that may be relevant to this product.

16- OTHER INFORMATION :**HMIS Ratings:**

Health - 2*

Flammability - 3

Reactivity - 0

Ratings Key: 4 = Highest hazard, 0 = Lowest hazard, * = Chronic Health Hazard

REVEALING MODIFICATION : E3.PDF

Revised : 9/22/2010 Supersedes sheet : 3/13/2009 This sheet provides a complement to the product use instructions but does not replace them. The information it contains is based on our current knowledge of the product concerned at the date of drafting. That information is given in good faith and does not in any circumstances remove from the user his duty to be aware of and to follow all legal regulations and statutes covering his activities. The user takes sole responsibility for application of safety measures covering the use of the product he is aware of. We also draw the user's attention to the risks attached to any use of the product for applications for which it was not designed.
03/2006