



Material Safety Data Sheet

Revision Date 19-Mar-2014

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product code P57827A
Product name Conductaloy Epoxy - Part A
Recommended Use Repair Material

Supplier Kent Automotive
 8770 W.Bryn Mawr Ave.- Suite 900
 Chicago, IL 60631
 1-866-529-7664
Emergency telephone number (888) 426-4851

2. HAZARDS IDENTIFICATION

Emergency Overview
Flammable. Irritant.

Aggravated Medical Conditions

Pre-existing heart conditions. Pre-existing skin, eye, or respiratory conditions may be aggravated by exposure to this product.

Principal Routes of Exposure

Eyes. Skin. Ingestion. Inhalation.

Potential health effects

Eyes Irritation. Severity depends on degree of exposure.
Skin Redness. Swelling. Sensitization. Allergic reaction.
Inhalation If fumes are generated by heating to high temperatures, acute symptoms are. Headaches. Nausea. Dizziness. Harmful by inhalation. Drowsiness. Respiratory irritation.
Ingestion Harmful if swallowed. Toxic if swallowed.

3. COMPOSITION / INFORMATION ON INGREDIENTS

| Chemical Name | CAS-No | Weight % |
|--------------------------------------|------------|----------|
| Silver | 7440-22-4 | 60-100 |
| Bisphenol A - Epichlorhydrin polymer | 25068-38-6 | 10-30 |
| Modified Epoxy Ester | Mixture | 1-5 |

4. FIRST AID MEASURES

Eye contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. If eye irritation persists, consult a specialist.
Skin contact Remove and wash contaminated clothing before re-use. Wash off immediately with soap and plenty of water. Seek medical attention if irritation persists.
Ingestion Drink 1 or 2 glasses of water. Do Not induce vomiting.
Inhalation Remove from exposure. Provide oxygen if breathing is difficult. Call a physician. Administer artificial respiration if not breathing. Call a physician immediately.

5. FIRE FIGHTING MEASURES

Flash point °C > 93
Flash point °F > 200
Method Tag Closed Cup

Autoignition temperature °C No data available
Autoignition temperature °F No data available

Flammability Limits (% in Air)
Upper No data available
Lower No data available

Suitable extinguishing media

Carbon dioxide. Dry chemical powder. Water. Foam.

Special protective equipment for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

Special Fire-Fighting Procedures

Firefighters should wear NIOSH/MSHA approved (or equivalent) self-contained pressure-demand breathing apparatus and full protective clothing.

Fire and Explosion Hazards

Water should be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat. Containers may vent or burst under extreme or prolonged fire conditions.

Sensitivity to shock

No information available.

Sensitivity to static discharge
No information available.

6. ACCIDENTAL RELEASE MEASURES

Methods for cleaning up

Personnel should wear appropriate protective equipment. Follow all precautions for handling. Please refer to appropriate sections of MSDS for additional information. Eliminate all sources of ignition. Do not allow product to reach sewage system, soil, surface or ground water, or any water course. Notify proper authorities if entry occurs. Ventilate area to maintain exposure below permissible exposure limits. Soak up with inert absorbent material. Clean up promptly by scoop or vacuum. Place in suitable container for disposal as hazardous waste.

7. HANDLING AND STORAGE

Handling

Ensure adequate ventilation. Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Thoroughly wash hands and exposed skin after handling. Check to make sure that all equipment is properly grounded and installed to satisfy electrical classification requirements. Keep container closed when not in use.

Storage

Keep away from direct sunlight. Keep out of the reach of children. Keep containers tightly closed in a cool, well-ventilated place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

| Chemical Name | OSHA PEL (TWA) | OSHA PEL (Ceiling) | ACGIH OEL (TWA) | ACGIH OEL (STEL) |
|---------------------------------------|------------------------|--------------------|-----------------------|------------------|
| Silver | 0.01 mg/m ³ | - | 0.1 mg/m ³ | - |
| Bisphenol A - Epichlorohydrin polymer | - | - | - | - |
| Modified Epoxy Ester | - | - | - | - |

Ventilation and Environmental Controls

Adequate ventilation should be provided to keep exposure levels below current acceptable exposure limits. Local: as necessary.

Hygiene measures

General industrial hygiene practice.

Respiratory protection

Use NIOSH approved respirator if TLV limit is exceeded.

Hand Protection

Chemical resistant gloves. Rubber gloves.

Eye protection

Safety glasses with side-shields.

Skin and body protection

None necessary under normal conditions

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|--------------------------|
| Form | Liquid |
| Color | Silver / Gray |
| Odor | Mild |
| Odor Threshold | No information available |
| pH | No data available |
| Specific Gravity | 4.0 |
| Vapor pressure | < 1.0 mmHg |
| Vapor density | > 1 (Air=1) |
| Evaporation Rate | No data available |
| Water solubility | 10% |
| VOC Content | < 0.5 |
| Partition Coefficient (n-octanol/water) | No data available |
| Boiling point/range °C | > 93 |
| Boiling point/range °F | > 200 |
| Melting point/range °C | No data available |
| Melting point/range °F | No data available |
| Flash point °C | > 93 |
| Flash point °F | > 200 |

10. STABILITY AND REACTIVITY

Stability

Stable.

Conditions to avoid

Do not store above 120 degrees F. Avoid direct sunlight. Do not store or use near incompatible materials.

Incompatibility

Strong oxidizing agents. Copper. Copper alloys. Iron. Strong acids. Strong bases. Caustics. Amines. Alkalies. Mercaptans.

Hazardous Decomposition Products

Carbon monoxide. Carbon dioxide.

Polymerization

Will occur.

11. TOXICOLOGICAL INFORMATION

Component Information

| Chemical Name | LD50 (oral, rat) | LD50 (dermal, rat/rabbit) | LC50 (inhalation, rat) |
|--|------------------|---------------------------|------------------------|
| Silver 7440-22-4 | 2000 mg/kg | - | - |
| Bisphenol A - Epichlorohydrin polymer 25068-38-6 | - | - | - |
| Modified Epoxy Ester Mixture | - | - | - |

Synergistic Products

None known

Potential health effects

| | |
|------------------------------|-----------------|
| Sensitization | None known |
| Chronic toxicity | None known |
| Mutagenic effects | None known |
| Teratogenic effects | None known |
| Reproductive toxicity | None known |
| Target Organ Effects | See Section 2 |
| Carcinogenic effects | See table below |

| Chemical Name | ACGIH OEL - Carcinogens | IARC | NTP - Known Carcinogens | NTP - Suspected Human Carcinogens | OSHA RTK Carcinogens |
|---------------------------------------|-------------------------|------------|-------------------------|-----------------------------------|----------------------|
| Silver | Not Listed | Not Listed | Not Listed | Not Listed | Not Listed |
| Bisphenol A - Epichlorohydrin polymer | Not Listed | Not Listed | Not Listed | Not Listed | Not Listed |
| Modified Epoxy Ester | Not Listed | Not Listed | Not Listed | Not Listed | Not Listed |

12. ECOLOGICAL INFORMATIONSilver**Water Flea Data***Daphnia magna* EC50=0.00024 mg/L (48 h)

Aquatic toxicity Do not let product enter drains.

13. DISPOSAL CONSIDERATIONS**Waste from residues / unused products**

Dispose in accordance with federal, state, and local regulations.

Bioaccumulation

Water contamination should be avoided

14. TRANSPORTATION INFORMATION**DOT**

Not Regulated

TDG

Not Regulated

15. REGULATORY INFORMATION

| Chemical Name | US EPA SARA 313 Emission Reporting |
|---------------|------------------------------------|
| Silver | Listed |

State Regulations

| Chemical Name | New Jersey - RTK | Pennsylvania - RTK | California Prop. 65 |
|---------------------------------------|------------------|--------------------|---------------------|
| Silver | Listed | Listed | |
| Bisphenol A - Epichlorohydrin polymer | Not Listed | Not Listed | Not Listed |
| Modified Epoxy Ester | Not Listed | Not Listed | Not Listed |

International Inventories

| Chemical Name | EINECS | DSL | NDSL | TSCA |
|---------------------------------------|--------|-----|------|------|
| Silver | X | X | - | X |
| Bisphenol A - Epichlorohydrin polymer | - | X | - | X |
| Modified Epoxy Ester | - | - | - | - |

CPR

This product has been classified in accordance with the hazard criteria of the Controlled Product Regulations and the MSDS contains all of the information required by the Controlled Product Regulations

16. OTHER INFORMATION**NFPA**

NFPA

Health - 3
Flammability - 1
Reactivity - 1

HMIS

HMIS

Health - 3
Flammability - 1
Physical Hazard - 1

Prepared By

V. Shargorodsky, Regulatory Affairs Engineer

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.



Material Safety Data Sheet

Revision Date 19-Mar-2014

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product code P57827B
Product name Conductaloy Epoxy - Part B
Recommended Use Repair Material

Supplier Kent Automotive
 8770 W.Bryn Mawr Ave.- Suite 900
 Chicago, IL 60631
 1-866-529-7664
Emergency telephone number (888) 426-4851

2. HAZARDS IDENTIFICATION

Emergency Overview
Irritant.

Aggravated Medical Conditions

Pre-existing heart conditions. Pre-existing skin, eye, or respiratory conditions may be aggravated by exposure to this product.

Principal Routes of Exposure

Eyes. Skin. Ingestion. Inhalation.

Potential health effects

Eyes Chemical burns. Irreversible damage to eyes.
Skin Chemical burns. Sensitization. Allergic reaction.
Inhalation Harmful by inhalation. Respiratory irritation. Sensitization. May cause allergic respiratory reaction.
Ingestion Harmful if swallowed. Chemical burns. Gastrointestinal irritation. Toxic if swallowed.

3. COMPOSITION / INFORMATION ON INGREDIENTS

| Chemical Name | CAS-No | Weight % |
|-----------------------------|-----------|----------|
| Silver | 7440-22-4 | 60-100 |
| 1-(2-Aminoethyl) piperazine | 140-31-8 | 10-30 |

4. FIRST AID MEASURES

Eye contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. If eye irritation persists, consult a specialist.
Skin contact Remove and wash contaminated clothing before re-use. Wash off immediately with soap and plenty of water. Seek medical attention if irritation persists.
Ingestion Give victim a glass of milk. Seek medical attention immediately.
Inhalation Remove from exposure. Provide oxygen if breathing is difficult. Call a physician. Administer artificial respiration if not breathing. Call a physician immediately.

5. FIRE FIGHTING MEASURES

Flash point °C > 93
Flash point °F > 200
Method Tag Closed Cup

Autoignition temperature °C No data available
Autoignition temperature °F No data available

Flammability Limits (% in Air)
Upper No data available
Lower 0.9

Suitable extinguishing media

Carbon dioxide. Dry chemical powder. Water. Foam.

Special protective equipment for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

Special Fire-Fighting Procedures

Firefighters should wear NIOSH/MSHA approved (or equivalent) self-contained pressure-demand breathing apparatus and full protective clothing.

Fire and Explosion Hazards

Water should be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat. Containers may vent or burst under extreme or prolonged fire conditions.

Sensitivity to shock

No information available.

Sensitivity to static discharge

No information available.

6. ACCIDENTAL RELEASE MEASURES**Methods for cleaning up**

Personnel should wear appropriate protective equipment. Follow all precautions for handling. Please refer to appropriate sections of MSDS for additional information. Eliminate all sources of ignition. Do not allow product to reach sewage system, soil, surface or ground water, or any water course. Notify proper authorities if entry occurs. Ventilate area to maintain exposure below permissible exposure limits. Soak up with inert absorbent material. Clean up promptly by scoop or vacuum. Place in suitable container for disposal as hazardous waste.

7. HANDLING AND STORAGE**Handling**

Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Avoid breathing vapors. Thoroughly wash hands and exposed skin after handling. Keep away from open flames, hot surfaces and sources of ignition. Keep container closed when not in use.

Storage

Keep away from direct sunlight. Keep out of the reach of children. Keep containers tightly closed in a cool, well-ventilated place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

| Chemical Name | OSHA PEL (TWA) | OSHA PEL (Ceiling) | ACGIH OEL (TWA) | ACGIH OEL (STEL) |
|-----------------------------|------------------------|--------------------|-----------------------|------------------|
| Silver | 0.01 mg/m ³ | - | 0.1 mg/m ³ | - |
| 1-(2-Aminoethyl) piperazine | - | - | - | - |

Ventilation and Environmental Controls

Adequate ventilation should be provided to keep exposure levels below current acceptable exposure limits. Local: as necessary.

Hygiene measures

General industrial hygiene practice.

Respiratory protection

Use NIOSH approved respirator if TLV limit is exceeded.

Hand Protection

Chemical resistant gloves. Rubber gloves.

Eye protection

Safety glasses with side-shields.

Skin and body protection

None necessary under normal conditions

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|----------------|--------------------------|
| Form | Liquid |
| Color | Silver / Gray |
| Odor | Amine-like |
| Odor Threshold | No information available |

| | |
|---|-------------------|
| pH | No data available |
| Specific Gravity | 4.0-4.2 |
| Vapor pressure | < 1.0 mmHg |
| Vapor density | > 1 (Air=1) |
| Evaporation Rate | < 1 (ether = 1) |
| Water solubility | 10% |
| VOC Content | 0 |
| Partition Coefficient (n-octanol/water) | No data available |
| Boiling point/range °C | > 93 |
| Boiling point/range °F | > 200 |
| Melting point/range °C | No data available |
| Melting point/range °F | No data available |
| Flash point °C | > 93 |
| Flash point °F | > 200 |

10. STABILITY AND REACTIVITY**Stability**

Stable.

Conditions to avoid

Avoid extreme heat.

Incompatibility

Epoxy resin. Isocyanates. Alkalies. Caustics. Mineral acids. Strong acids. Strong bases.

Hazardous Decomposition Products

Carbon monoxide. Carbon dioxide. Nitrogen oxides (NO_x).

Polymerization

Will occur.

11. TOXICOLOGICAL INFORMATION**Component Information**

| Chemical Name | LD50 (oral, rat) | LD50 (dermal, rat/rabbit) | LC50 (inhalation, rat) |
|--------------------------------------|------------------|---------------------------|------------------------|
| Silver 7440-22-4 | 2000 mg/kg | - | - |
| 1-(2-Aminoethyl) piperazine 140-31-8 | 2140 mg/kg | 880 µL/kg | - |

Synergistic Products

None known

Potential health effects

| | |
|-----------------------|------------|
| Sensitization | None known |
| Chronic toxicity | None known |
| Mutagenic effects | None known |
| Teratogenic effects | None known |
| Reproductive toxicity | None known |

Target Organ Effects See Section 2

Carcinogenic effects See table below

| Chemical Name | ACGIH OEL - Carcinogens | IARC | NTP - Known Carcinogens | NTP - Suspected Human Carcinogens | OSHA RTK Carcinogens |
|-----------------------------|-------------------------|------------|-------------------------|-----------------------------------|----------------------|
| Silver | Not Listed | Not Listed | Not Listed | Not Listed | Not Listed |
| 1-(2-Aminoethyl) piperazine | Not Listed | Not Listed | Not Listed | Not Listed | Not Listed |

12. ECOLOGICAL INFORMATION

Silver

Water Flea Data*Daphnia magna* EC50=0.00024 mg/L (48 h)

1-(2-Aminoethyl) piperazine

Microtox Data*Pseudomonas putida* EC50>10000 mg/L (17 h)**Water Flea Data***Daphnia magna* EC50=32 mg/L (48 h)

Aquatic toxicity Do not let product enter drains.

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products

Dispose in accordance with federal, state, and local regulations.

Bioaccumulation

Water contamination should be avoided

14. TRANSPORTATION INFORMATION

DOT

Not Regulated

TDG

Not Regulated

15. REGULATORY INFORMATION

| Chemical Name | US EPA SARA 313 Emission Reporting |
|---------------|------------------------------------|
| Silver | Listed |

State Regulations

| Chemical Name | New Jersey - RTK | Pennsylvania - RTK | California Prop. 65 |
|-----------------------------|------------------|--------------------|---------------------|
| Silver | Listed | Listed | |
| 1-(2-Aminoethyl) piperazine | Listed | Listed | Not Listed |

International Inventories

| Chemical Name | EINECS | DSL | NDSL | TSCA |
|-----------------------------|--------|-----|------|------|
| Silver | X | X | - | X |
| 1-(2-Aminoethyl) piperazine | X | X | - | X |

CPR

This product has been classified in accordance with the hazard criteria of the Controlled Product Regulations and the MSDS contains all of the information required by the Controlled Product Regulations

16. OTHER INFORMATION

NFPA

NFPA

Health - 3

Flammability - 1

Reactivity - 0

HMIS

HMIS

Health - 3

Flammability - 1

Physical Hazard - 0

Prepared ByV. Shargorodsky, Regulatory Affairs
Engineer

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.