

SECTION 1. IDENTIFICATION

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| Product Name | ReactiLINK |
| Synonyms | Cross-linking agent; Asphalt cross-linking agent |
| Chemical family | Catalyst |
| Recommended use | Road Construction; Asphalt Cross-Linker |
| Restriction on use | All others. |
| Supplier's details | 16880 Kapalama Dr. Pass Christian, MS 39571 228-596-0100 awi-gat.com |
| Emergency Number (24 hours) | Chemtrec: 800-424-9300 |

SECTION 2. HAZARDS IDENTIFICATION


HMIS Ratings (Scale of 1 to 4)

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|-------------------|----------------|
| Health | 1 |
| Fire | 1 |
| Reactivity | 1 |
| Other | Not Applicable |

NFPA Ratings (Scale of 1 to 4)

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|-------------------|----------------|
| Health | 1 |
| Fire | 1 |
| Reactivity | 1 |
| Other | Not Applicable |

Label elements

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| Word signal | WARNING: Hot product can cause severe skin burns. Asphalt products can contain hydrogen sulfide residues and hot product can release hydrogen sulfide gas causing eye, skin, and inhalation irritation. |
| Pictogram signal |  |
| Statement | When charging ReactiLINK into molten asphalt, always use vapor mask (activated charcoal filter mask) because of fume emissions from hot asphalt. Always take usual safety precautions to prevent skin contact, ingestion and inhaling vapor or mist. Keep container closed when not in use, use only with adequate ventilation and wash thoroughly after handling. |

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Composition information | | |
|-------------------------|-------------|-------------|
| Name | CAS# | % by Weight |
| Proprietary | Proprietary | 100% |

SECTION 4. FIRST AID MEASURES

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| Skin Contact | If burn by hot product, cool affected area immediately with cool water. Flush skin with plenty of water for at least 15 minutes. Do not attempt to remove solidified product from skin while removing contaminated clothing including shoes. Get medical attention immediately. |
| Eye Contact | Check for and remove any contact lenses. Immediately flush eyes with copious amounts of water for at least 15 minutes, occasionally lifting the upper eyelid. Get medical attention immediately. |
| Inhalation | Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as collar, tie or waistband. Get medical attention immediately. |
| Ingestion | Call physician or poison control immediately. Provide them with information such as the compound taken, quantity and time. Clean the mouth to remove any remaining product; wipe mouth with wet cloth. DO NOT induce vomiting without consulting healthcare professional. |
| Notes to physician | Symptomatic and supportive therapy as needed. Following severe exposure, recommended that medical follow-up should be monitored for at least 48 hours |

SECTION 5. FIRE FIGHTING MEASURES

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| Suitable extinguishing media | Alcohol-resistant foam, dry chemical fire extinguisher. Avoid breathing corrosive vapors. Keep upwind. |
| Unsuitable extinguishing media | Do not use water jet. Water may be ineffective. |
| Fire and explosion hazard | Unlikely, rare |
| Products of combustion | Carbon dioxide, carbon monoxide, nitrogen oxides. |
| Incompatible substances | Strong oxidants. |
| Flash point (open cup) | > 200°C / > 392°F |

SECTION 6. ACCIDENTAL RELEASE MEASURES

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| Personal precautions | Wear protective gloves and clothing. Wear protective eye and/or face protection. Provide adequate ventilation. |
| Emergency response | Evacuate all persons away from incident and allow only rescue persons with full respiratory gear (oxygen masks) into location if needed. |

| SECTION 6. ACCIDENTAL RELEASE MEASURES | |
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| Spill or leak | Remove ignitions source. Keep people away. Recover solids and any contaminated liquids and scrape up any solidified material. Absorb with inert material (e.g. saw dust) to liquid spill area. Minimize breathing of fumes by wearing appropriate vapor mask. Ventilate confined spaces. Advise authorities if product enters sewers or any waterways. |
| Disposal | Do not dispose into the immediate environment. Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Dispose of spilled contents and/or containers to an approved waste disposal plant in accordance with local, state, and federal regulations. |

| SECTION 7. HANDLING AND STORAGE | |
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| Good practice on safe handling | <p>When handling dry product as supplied, wear dust mask, fully buttoned up long sleeved overalls, shoes with socks and PVC apron and PVC gloves. Avoid contact with skin, eyes or clothing. Do not ingest. Do not breathe vapors or mist. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling. Use product with caution around heat, sparks, static electricity and open flame.</p> <p>When adding the product to hot asphalt for cross-linking in the laboratory, ensure that the blending/reaction vessel is located in a fume cupboard with adequate extraction. Wear dust mask fully buttoned up long sleeved laboratory coat, long pants and socks and shoes and PVC gloves.</p> <p>When handing the product on a plant production scale, the use of screw conveyor or some similar dosing/feeding mechanism is recommended and the usual precautions must be taken with regards to asphalt vapor emissions and where exposure to vapors are possible, appropriate gas mask (activated charcoal filter type) must be used. In addition, employees must use fully buttoned up long sleeved overalls, shoes, socks, PVC apron and PVC gloves.</p> |
| Storage condition | Keep under cover in well ventilated area at temperature not exceeding 90°F. Store away from incompatible materials or source of ignition. |

| SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION | |
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| Engineering controls | Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Ensure that eye wash stations and safety showers are installed in close proximity to the workstations. |
| Exposure limits | Follow the exposure limits for hydrogen sulfide and carbon dioxide gas exposure levels. |
| Eye/Face protection | Wear safety glasses or goggles with side shields as appropriate. |
| Hand & Body protection | Wear long sleeved shirt, long pants, socks and shoes. Ensure full body is covered and PVC apron & gloves. |
| Other skin protection | Use personal protective equipment as required. |
| Respiratory protection | Wear appropriate respirator gear when ventilation is inadequate. |

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

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| Physical state | Free flowing powder |
| Color | Light Grey |
| Odor | Mild to None |
| Melting point | 155°C-165°C |
| Specific gravity (H ₂ O=1) | 0.8116-kg/L = 50.66-lbs/cubic foot |
| Water solubility | Partially |
| Viscosity (at 160°C / 320°F) | N/A |
| Flash point | N/A |
| Auto-ignition temperature | N/A |
| Boiling point | N/A |

SECTION 10. STABILITY AND REACTIVITY

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| Stability and reactivity | This product is stable at ambient temperature |
| Incompatibility materials | Strong oxidizing and reducing agents. |
| Conditions to avoid | Direct sunlight and rain |
| Hazardous decomposition products | Carbon monoxide, carbon dioxide |
| Hazardous Polymerization | Will not occur. |

SECTION 11. TOXICOLOGICAL INFORMATION

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| Carcinogen status | OSHA - None known NTP - Not known IARC - Not known |
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SECTION 12. ECOLOGICAL INFORMATION

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| Ecotoxicity | No information available. |
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SECTION 13. DISPOSAL CONSIDERATIONS

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| Methods | Do not allow matter to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with fine particulates. Disposal should be in accordance with local/regional/national/federal/international regulations. |
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SECTION 14. TRANSPORT INFORMATION

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| Shipping | ReactiLINK |
| UN number | Not regulated |
| UN proper shipping name | Not regulated |

SECTION 14. TRANSPORT INFORMATION

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| Hazard class or division | Not regulated |
| Packaging group | Not regulated |
| Environmental hazard(s) | Not regulated |
| Labeling requirements | Not regulated |
| Exceptions | Not regulated |
| Non-bulk packing | Not regulated |
| Bulk packing | Not regulated |
| Passenger aircraft | Not regulated |
| Cargo aircraft only | Not regulated |
| Vessel stowage requirements | Not regulated |
| Emergency guide number | Not regulated |

SECTION 15. REGULATORY INFORMATION

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| OSHA process safety | This product is considered by OSHA/MSHA to be hazardous chemical due to H ₂ S release possibility and should be included in the Employee hazard communication program. |
| SARA Title III | No reporting requirements of Section 313 of Title III of Superfund Amendments and Reauthorization Act of 1986 and CFR Part 372. |
| TSCA Status | All components of product TSCA listed. |
| CERCLA | Not listed as CERCLA hazardous substance. |
| EINECS Status | Not regulated |
| California Proposition 65 | Components not listed in California's Proposition 65. |
| WHMIS Classification | Not regulated |

SECTION 16. OTHER INFORMATION

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|------------------------|-------------|
| <u>Version History</u> | |
| Created | 05-Mar-2010 |
| Revision | 06-Jul-2020 |

SECTION 16. OTHER INFORMATION

Disclaimer

This HCSDS is furnished independent of product sale. Every effort was made to accurately describe this product. However, some of the data are obtained from sources beyond COMPANY direct supervision. We cannot make any assertions as to its reliability or completeness. Therefore, the user may rely on it only at user's risk. We have made no effort to censor or conceal deleterious aspects of this product. Since COMPANY is not able to anticipate or control the conditions under which this information and product may be used, we make no guarantee that the precautions we have suggested will be adequate for all individuals and/or situations. It is the obligation of each user of this product to comply with the requirements of all applicable laws regarding the use and disposal of this product. Additional information will be furnished upon request to assist the user; however, no warranty, either expressed or implied, nor liability of any nature with respect to this product or to the data herein is made or incurred hereunder.

End of Safety Data Sheet