



215 S.E. 6th Ave.

HILLSBORO ELEMENTARY SCHOOLS

MATERIAL SAFETY DATA SHEET

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Note: The coating is developed as follows: asbestos paper is added to a zinc galvanizing operation which is applied to the low carbon steel base metal. The product is then further coated with an asphaltic material.

SECTION II - PHYSICAL DATA:

Boiling Point (°F): Not Applicable (N/A) Vapor Density (Air = 1): N/ASpecific Gravity ($H_2O = 1$): Approx. 8 Evaporative Rate (Ethyl Ether = 1): N/A

Vapor Pressure (mmHg @ 20° C): N/A Solubility in Water: N/A Percent Volatile By Volume: N/A pH Information: N/A Appearance and Odor. Black solid, no odor. Available in corrugated pipe and sheet.

SECTION III --- FIRE & EXPLOSION HAZARD DATA:

Hash Point(°F): N/A

ammability Limits (%/Vol): LEL: N/A Auto-Ignition Temperature (°F): 905°F for asphalt.

Method Used: N/A UEL: N/A Extinguishing Media: Water spray, dry chemical, carbon dioxide or foam.

Special Fire-Fighting Instructions: Wear self-contained breathing apparatus when fighting fire in confined spaces.

Unusual Fire and Explosion Hazards: Flammable gases are released when a sustained fire in the vicinity of this product begins to melt the asphalt coating.

SECTION IV - REACTIVITY DATA:

Stability (conditions to avoid): Stable. Avoid excessive heat (over 200°F) which could cause the asphaltic material to melt.

incompatibility (materials to avoid): Asphaltic material may readily ignite when mixed with naphtha and other volatile solvents.

Hazardous Decomposition Products: Metal fumes and certain noxious gases, such as CO, may be produced during welding or burning operations. See Sections V and IX for further information.

Hazardous Polymerization: Will not occur.

SECTION V --- HEALTH HAZARD DATA:

Primary Route(s) of Entry: inhalation, skin contact.

Effects of Exposure: No toxic effects would be expected from its inert solid form. Prolonged, repeated overexposures to fumes or dusts generated during heating, cutting, brazing or welding may cause adverse health effects associated with the following constituents:

Inhalation:

Iron: Siderosis, no fibrosis.

Zinc: "Metal fume fever"-symptoms may include cough, headache, metallic taste in mouth, nausea, fever, chilling, pain in muscles and joints. This condition is transitory, usually lasting one day or less.

Asbestos: May cause progressive lung disease, asbestosis, which is characterized by shortness of breath of gradually increasing intensity. May also cause lung cancer and mesothelioma. All of these diseases take may years to develop, do not go away when exposure stops and become progressively worse. Contech has measured airborne concentrations of asbestos fibers from this product during welding and fitting operations at several Contech facilities. Airborne concentrations were generally nondetectable. Detectable concentrations rarely exceeded 0.10 fibers/cc, which is the present OSHA asbestos standard concentration that triggers medical surveillance.

Asphalt: May cause irritation of the nose, throat and lungs; increase in coughing and spitting; burning sensation in the throat and chest; hoarseness; headache; and runny nose.

Note: Some constituents pose more potential hazards than others, depending upon their inherent toxicity and concentration. Of special concern are zinc, asbestos and asphalt, and perhaps iron.

Skin Contact:

If heated, contact with asphalt may cause heat burns, irritation, acne-like sores, thickening and yellow-

Eye Contact:

May cause irritation.

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ingestion:

May cause irritation of the mouth and throat.

Medical Conditions Known to be Aggravated by Exposure to this Material:

Persons with lung disorders or diseases or skin disorders may be at an added risk as a result of overexposure to this material.

Exposure Limits:

Chemical Components	OSHA PEL (mg/m³)	ACGIH TLV (mg/m³)	NTP Listed	IARC Listed
lron Zinc*	10 (TWA as Fe_2O_3 fume)	5-TWA (as Fe_2O_3 fume)	No	No
Asbestos*	5 (TWA as ZnO fume) 0.2 fibers/cc (TWA)	5-TWA, 10-STEL (as ZnO fume) 2 fibers/cc TWA	No Yes	No Yes
Asphalt	None	5-TWA, 10-STEL (as fume)	No	No
*O- Tauta Oh	anti-ol link (Contine 212 of CADA)			

*On Toxic Chemical list (Section 313 of SARA)

SECTION VI - EMERGENCY & FIRST-AID PROCEDURES:

Inhalation: In case of overexposure, immediately move person from contaminated are to fresh air. Give artificial respiration if breathing has stopped, or oxygen, if necessary. Seek medical attention, if necessary.

Skin: If irritation develops, remove contaminated clothing immediately, and wash contaminated skin with soap or mild detergent and water for five minutes. If irritation persists, seek medical attention. Also, in case of contact with hot asphalt, promptly remove any asphalt pieces from skin. Pack adhering pieces in ice or emergency ice pack. Wash with cold water for at least five minutes. Treat as a heat burn. Seek medical attention, if necessary. Eyes: In case of contact, immediately wash eyes with large amounts of water for fifteen minutes, occasionally

lifting the lower and upper lids. Seek medical attention, if necessary.

Ingestion: Seek medical attention, if necessary.

SECTION VII — SPECIAL HANDLING INFORMATION:

Ventilation: Ventilation, as described in the *Industrial Ventilation Manual* produced by the American Conference of Governmental Industrial Hygienists, shall be provided in areas where exposures are above the permissible exposure limits or threshold limit values specified by OSHA or other local, state, and federal regulations.

Respiratory Protection: A properly fitted, NIOSH-approved, dust-fume respirator should be worn during welding or burning whenever welding fumes exceed the threshold limit value (TLV) or other recommended limits, in accordance with the OSHA Respiratory Protection Standard (29 CFR 1910.134).

Protective Ciothing: Use appropriate protective clothing, such as welder's aprons, and gloves, when welding or burning.

Eye Protection: Use face shield (8" minimum) and/or goggles when welding, burning, or grinding.

SECTION VIII - SPILL, LEAK & DISPOSAL PROCEDURES:

Action to Take for Spiils (use appropriate safety equipment): N/A Waste Disposal Method: N/A

SECTION IX - SPECIAL PRECAUTIONS/ADDITIONAL INFORMATION:

Precautions to be Taken in Handling and Storage: None

DOT information:

Hazardous Material Proper Shipping Name: N/A Hazard Class: N/A Identification Number: N/A

EPA Hazardous Waste Number: N/A

Additional Information: During welding, precautions should be taken for airborne contaminants and noxious gases that may originate from the welding process or from components of the welding rod. Of special concern are silica or silicates, or both; fluorides; copper; manganese; carbon monoxide and nitrogen oxides. Arc and sparks generated when welding with this product could be a source of ignition for combustible and flammable materials.

While the information and recommendations set forth on this data sheet are believed to be accurate as of the present date, Contech makes no warranty with respect thereto and disclaims all liability from reliance thereon.