OM0096

HILLSBORO ELEMENTARY SCHOOLS

MATERIAL SAFETY DATA SHEET

<u>CM 0014</u>



When the Aramid Fiber and associated acrylic resin are heated to elevated temperatures (200-250°C), the most health-significant breakdown products that may be released are: formaldehyde, ethanol, dimethyl acetamide, methyl methacrylate, ethyl acrylate, and carbon monoxide.

Hazardous Polymerization: Will net 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.

Aramid Fiber: No known effects.

#### Skin Contact:

If heated, contact with asphalt may cause heat burns, irritation, acne-like sores, thickening and yellow discoloration of the skin.

#### Eye Contact:

May cause irritation.

#### 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
Iron Zinc*	10 (TWA as Fe₂O₃ fume) 5 (TWA as ZnO fume)	5-TWA (as Fe <sub>2</sub> O <sub>3</sub> fume) 5-TWA, 10-STEL (as ZnO fume)	No No	No No No
Aramid Fiber Asphalt	None None	None 5-TWA, 10-STEL (as fume)	No No	

\*On Toxic Chemical list (Section 313 of SARA)

## SECTION VI --- EMERGENCY & FIRST-AID PROCEDURES:

Inhalation: In case of overexposure, immediately move person from contaminated area 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 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).

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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 Spills (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 Materiai 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 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.