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TARY SCHOOLS 215 S.E. 51h Ave.

HILLSTORD, OR 17123

MATERIAL SAFETY DATA SHEET

NFPA 704 RATING Product Name: CORRUGATED ALUMINUM PIPE AND ACCESSORIES Manufacturing Facility, Company, or Subsidiary: Several Facilities FIRE Address: 1001 Grove Street, Middletown, Ohio 45044 EACTIV Phone (during normal business hours): 513/425-2178 1 Date of Preparation: July 1, 1989 WHL A L T SECTION I -- COMPONENT DATA: l T **Chemical Components** C.A.S. Number % WŁ. **Primary Metals:** SPECIAL 7429-90-5 Aluminum min. 95 7440-21-3 Silicon max. 1.8 Manganese 7439-96-5 max. 1.8 Magnesium 7439-95-4 max. 1.4 2 max. 0.4 Chromium 7440-47-3 SECTION II — PHYSICAL DATA: **Boiling Point: N/A** Melting Point: 950-1215° F Specific Gravity $(H_2O = 1)$: 2.5-2.9 Physical State: Solid Physical State: Solid Appearance and Odor: Odorless - silvery gray SECTION III — FIRE & EXPLOSION HAZARD DATA: Flash Point (°F): N/A Method Used: N/A Flammability Limits (%/Vol): LEL: N/A UEL: N/A Extinguishing Media: See Special Instructions.

Auto-Ignition Temperature (°F): N/A

Special Fire-Fighting instructions: For fires involving Aluminum fines or chips use dry sand or Class D extinguishing ents. DO NOT USE water or other liquids, foam or halogenated extinguishing agents.

Unusual Fire and Explosion Hazards: Suspended Aluminum dust, allowed to accummulate in a confined area, may be explosive.

SECTION IV - REACTIVITY DATA:

Stability (conditions to avoid): Stable

Incompatibility (materials to avoid): Anhydrous bromine

Hazardous Decomposition Products: Finely divided Aluminum reacts with water, mineral acids, harsh alkalis and halogenated compounds to produce hydrogen gas that may form explosive air mixtures.

SECTION V — HEALTH HAZARD DATA:

Primary Route(s) of Entry: Inhalation.

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

Inhalation:

Aluminum: No known health effects. Generally considered to be in the nuisance dust category.

Silicon: May produce X-ray changes in the lungs without disability.

Magnesium: May cause irritation of the eyes and nose.

Manganese: Pneumonitis, CNS involvement, including irritability, difficulty in walking, speech disorders, compulsive behavior, mask-like face and a Parkinson-like syndrome.

Chromium: The dusts of chromium metal are usually reported to be relatively non-toxic, although there are reports of a nodular type of pulmonary disease with impairment of lung function. Some insoluble chromium compounds are suspect carcinogens.

Skin Contact:

Not likely.

Eve Contact: May cause irritation. Ingestion:

Not likely.

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

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

Chemical Components	OSHA PEL (mg/m³)	ACGIH TLV (mg/m ³)	NTP Listed	IARC Listed
		Fume Dust		
Aluminum [*]	15 (TWA as dust)	5-TWA 10-TWA	No	No
Silicon	10 (TWA as dust)	5-TWA 10-TWA	No	No
Manganese*	1 (TWA), 3 (STEL)	1-TWA 5-TWA 3-STEL	No	No
Magnesium	10 (TWA as fume)	1 0-TWA	No	No
Chromium*	1 (TWA as dust)	, 0.5-TWA	Yes	Yes

*On Toxic Chemical List (Section 313 SARA)

SECTION VI - EMERGENCY & FIRST-AID PROCEDURES:

Inhalation: 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.

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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 Clothing: 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 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. 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.