



ALUMINUM ALLOY

MATERIAL SAFETY DATA SHEET

SECTION I Material Description

Date: 11-4-85 REVISION DATE: 8-1-00 MSDS #1

MANUFACTURER: Commonwealth Aluminum Corporation Telephone Number: 270-295-3451
P.O. Box 480
Lewisport, Kentucky 42351

TRADE NAME: Aluminum Coil, Flat Sheet or Plate

PRODUCT CLASS: Aluminum Alloy

IDENTIFICATION:

MANUFACTURERS CODE: 1100, 1145, 1350, 3003, 3004, 3104, 3105, 3204, 3304, 7021, 7072, 8111, and BH22

SECTION II Ingredients

Ingredient	Percent	Chemical Abstracts Number (CAS)	TLV mg/m ₃	
			Fume	Dust
Aluminum	>92.10	7429-9-5	5	10
Magnesium	<2.05	7439-95-4	10	
Zinc	<5.85	7440-66-6	5	
Manganese	<1.50	7439-96-5	5 (ceiling)	5 (ceiling)

Contains no additional alloys above 1 %. Consult manufacturer for specific properties if additional information is required.

SECTION III Physical Data

MELTING RANGE: 950-1150°F VAPOR DENSITY: Unknown

EVAPORATING RATE: Unknown PERCENT VOLATILE BY VOLUME: Unknown

APPEARANCE AND ODOR: Dull or Silver Metallic color, no odor.



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SECTION IV Fire and Explosion Hazard Data

FLASH POINT: Unknown

LEL: Unknown

EXTINGUISHING MEDIA: Use extinguishing agent appropriate for combustible materials in area. Dry chemical recommended.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Molten aluminum, in the presence of water, is very unstable. Do not use water to extinguish where there is a possibility of molten aluminum being present. Finely divided aluminum will form explosive mixtures in air.

SECTION V Health Hazard Data

EFFECTS OF OVEREXPOSURE: High exposures may produce irritation of the eyes and respiratory tract. If exposures for aluminum oxide are kept below the TLV's the alloy components should not present any health risk. Welding or cutting aluminum may generate ozone. Overexposure to ozone can cause mucous membrane irritation and pulmonary changes including irritation, congestion and edema.

EMERGENCY AND FIRST AID PROCEDURES: Eye contact: wash eyes with large volumes of water for 15 minutes. If irritation persists seek medical attention. Skin contact: wash with soap and water. Inhalation: remove to fresh air and initiate appropriate respiratory support. Consult a physician. Ingestion: extremely unlikely.

CARCINOGENICITY: This material is not considered to be carcinogenic as currently listed by the NTP, IARC, or OSHA.

SECTION VI Reactivity Data

STABILITY: Stable

HAZARDOUS POLYMERIZATION : Will not occur

CONDITIONS TO AVOID: See section IX.

MATERIALS TO AVOID: Aluminum fines are attacked by strong acids and alkalis and by some halogenated organic compounds especially at elevated temps. Operations generating aluminum fines may produce hydrogen gas when exposed to moisture. See NFPA guideline #491M for specific incompatible materials.

HAZARDOUS DECOMPOSITION PRODUCTS: None



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SECTION VII Spill or Leak Procedures

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: No special procedure

WASTE DISPOSAL METHOD: For disposal of this material as a waste, act in accordance with all applicable federal, state and local waste management regulations. Recycling of aluminum scrap is encouraged by the industry.

SECTION VIII Special Protection Information

RESPIRATORY PROTECTION: If TLV's exceeded use NIOSH approved dust or fume respirator depending on contaminants and concentrations present.

VENTILATION: Local exhausts if TLV's exceeded.

PROTECTIVE GLOVES: Recommended while handling sheet or coil

EYE PROTECTION: Eyeglasses or goggles depending on prevailing hazard.

OTHER PROTECTIVE EQUIPMENT: None

SECTION IX Special Precautions

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: None under normal conditions of use and storage.

OTHER PRECAUTIONS: Halogen acids and sodium hydroxide in contact with aluminum may generate explosive mixtures of hydrogen.

Do not touch cast aluminum metal or heated aluminum product without knowing metal temperature. Aluminum experiences no color change during heating. If metal is hot and touched, burns can result.

The welding of aluminum alloys may generate carbon monoxide, carbon dioxide, ozone, nitrogen oxides, infrared radiation and ultra-violet radiation.

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