SAFETY DATA SHEET

Aluminum Termination Bars for Flashing | Aluminum Alloys, 1XXX through 7XXX Series | OSHA HCS 16-section format

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Product name	Aluminum Termination Bars for Flashing
Product form	Mixture; finished solid aluminum-alloy article
Other identifiers	Aluminum alloys; 1XXX through 7XXX series
SDS number	3GEN-SDS-ALTB-001
Recommended use	Aluminum termination bars used to mechanically secure flashing membranes and related building-envelope materials.
Uses advised against	No additional use is specified.
Manufacturer / supplier	3GEN Masonry Products, Inc. 8620 Spruiell Street, Leeds, Alabama 35094 USA
Telephone	Toll-free 1-800-556-5785 | www.3genmp.com
Emergency (24-hour)	CHEMTREC 1-800-424-9300 (US transportation) | CANUTEC 1-613-996-6666 (Canadian transportation)
Prepared / revised	19 October 2026 | Version 1.0

SECTION 2 - HAZARDS IDENTIFICATION

GHS classification	Skin Sensitization Category 1 (H317); Carcinogenicity Category 1B (H350); Reproductive Toxicity Category 2 (H361).
Signal word	Warning
Pictograms	GHS07 - Exclamation mark | GHS08 - Health hazard
Hazard statements	May cause an allergic skin reaction. May cause cancer. Suspected of damaging fertility or the unborn child.
Precautionary statements	Obtain special instructions before use. Do not handle until safety precautions are understood. Avoid breathing fume or dust. Wear protective gloves, clothing, and eye protection. If exposed or concerned, obtain medical advice. Wash exposed skin with water. Remove and wash contaminated clothing. Store locked up. Dispose in accordance with applicable requirements.
Other hazards	The product is supplied in massive solid form and does not present the same hazards as its powdered components. Cutting, grinding, welding, melting, or other processing can generate hazardous dust, fume, or particulate. Fine particulate dispersed in air may present a combustible-dust or explosion hazard. Metal fume fever and eye, skin, or respiratory irritation may occur.

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Representative aluminum-alloy composition from the supplied SDS. Actual composition varies by alloy series and the applicable material certification controls for a specific lot.

Ingredient	CAS No.	Maximum wt. %	GHS / notes
Aluminum	7429-90-5	>75	Combustible dust when finely divided
Silicon	7440-21-3	<=17	Combustible dust
Zinc	7440-66-6	<=11	Combustible dust
Iron	7439-89-6	<=11	Combustible dust
Copper	7440-50-8	<=10	Combustible dust
Magnesium	7439-95-4	<=8	Flammable solid; self-heating; water-reactive; combustible dust
Nickel	7440-02-0	<=3	Skin sensitizer; carcinogenicity Cat. 2; STOT RE 1
Manganese	7439-96-5	<=3	Combustible dust
Silver	7440-22-4	<=1	Aquatic Acute / Chronic 1; combustible dust
Chromium	7440-47-3	<=0.5	Combustible dust
Cobalt	7440-48-4	<=0.25	Acute toxicity; sensitizer; carcinogenicity Cat. 1B; reproductive toxicity Cat. 2
Cadmium	7440-43-9	<=0.03	Aquatic Acute 1

SECTION 4 - FIRST-AID MEASURES

General. If injury occurs or you feel unwell, seek medical advice.

Inhalation. Remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists.

Skin. Remove contaminated clothing and wash before reuse. For molten product, cool skin rapidly with cold water; removal of solidified material requires medical assistance. Obtain attention if irritation develops or persists.

Eyes. Rinse with water for at least 15 minutes while holding eyelids open. Remove contact lenses if easy to do. Continue rinsing and obtain medical attention if irritation persists.

Ingestion. Do not induce vomiting. Seek medical advice immediately.

Most important effects. Skin sensitization; suspected reproductive effects; may cause cancer. Processing dust or fume may irritate the eyes, skin, and respiratory tract. Fume inhalation may cause delayed metal fume fever. Hot metal can cause thermal burns. Treat symptomatically.

SECTION 5 - FIRE-FIGHTING MEASURES

Suitable media	Use extinguishing media appropriate for the surrounding fire.
Unsuitable media	Do not use halogenated agents on small chips or fines. Do not use water when molten material is involved; violent steam expansion may occur.
Specific hazards	Not considered flammable in massive form but will burn at high temperatures. Small chips, turnings, dust, and fines may ignite readily. Processing dust may present an explosion hazard.
Protective equipment	Firefighters should wear full bunker gear and positive-pressure self-contained breathing apparatus. Keep upwind and avoid breathing fire fumes.
Combustion products	Metal oxides, including nickel and iron oxides. Zinc-containing fume may cause metal fume fever.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions. Avoid eye and skin contact and breathing dust or fumes. Use appropriate PPE. Evacuate unnecessary personnel and keep ignition sources away from fines.

Containment and cleaning. Collect solid scrap for recycling. Avoid dust generation. Sweep, shovel, or vacuum using a HEPA-filtered, explosion-safe system. Use non-sparking tools. For molten material, contain with dry sand or salt flux and allow to cool; do not use hand tools to stop the flow.

Environmental precautions. Prevent entry into drains and watercourses.

SECTION 7 - HANDLING AND STORAGE

Safe handling. Avoid breathing dust or fume and avoid eye, skin, and clothing contact. Minimize dust and prevent accumulation. Keep away from sparks and ignition sources. Use adequate ventilation and recommended PPE. Wash hands after handling and before eating, drinking, or smoking. Use cut-resistant gloves and safe handling practices for sharp bar ends and edges.

Storage. Store dry and cool in a well-ventilated place. Secure bundles against shifting or collapse. Keep away from oxidizers, acids, bases, mineral acids, and corrosive substances that may generate flammable hydrogen on contact with metal.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Limits apply to airborne contaminants created during processing, not to the intact termination bar.

Substance	OSHA PEL	NIOSH REL	Form / note
Aluminum	15 mg/m3 total; 5 mg/m3 respirable	10 mg/m3 total; 5 mg/m3 respirable	Dust
Silicon	15 mg/m3 total; 5 mg/m3 respirable	10 mg/m3 total; 5 mg/m3 respirable	Dust
Copper	0.1 mg/m3 fume; 1 mg/m3 dust/mist	0.1 mg/m3 fume; 1 mg/m3 dust/mist	Fume / dust / mist
Nickel	1 mg/m3	0.015 mg/m3	Metal particulate
Manganese	5 mg/m3 ceiling	1 mg/m3 TWA; 3 mg/m3 STEL	Fume / dust
Silver	0.01 mg/m3	0.01 mg/m3	Dust / fume
Chromium	1 mg/m3	0.5 mg/m3	Metal particulate

Engineering controls. Use local exhaust at the source and explosion-proof equipment where combustible dust may be present. Prevent dust accumulation.

PPE. Wear protective gloves, clothing, and chemical-safety goggles. Use welding eye protection for hot work. When working with hot material, wear suitable thermal protection.

Respiratory protection. If exposure limits are exceeded or irritation occurs, use approved respiratory protection under a compliant respiratory-protection program.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical state / appearance	Solid; gray to silver aluminum-alloy termination bar
Odor	Odorless
Odor threshold / pH	Not available
Melting point	476.7-660 C (890.06-1,220 F)
Boiling point	2,450 C (4,442 F)
Flash point / auto-ignition	Not available
Flammability / limits	Not available for massive solid form; fine dust may be combustible
Specific gravity	2.50-3.13
Solubility	Insoluble in water
Vapor pressure / viscosity	Not available

SECTION 10 - STABILITY AND REACTIVITY

Reactivity	Hazardous reactions will not occur under normal conditions.
Chemical stability	Stable under recommended handling and storage conditions.
Hazardous reactions	Hazardous polymerization will not occur.
Conditions to avoid	Dust, chips, or ribbons can ignite more easily through an ignition source, improper machining, or spontaneous combustion when finely divided and damp.
Incompatible materials	Oxidizers, acids, bases, mineral acids, and corrosive substances. Contact with metals may produce flammable hydrogen gas.
Hazardous decomposition	None expected under normal conditions of use; processing or fire may generate metal oxides and irritating fumes.

SECTION 11 - TOXICOLOGICAL INFORMATION

Classification. Acute oral, dermal, and inhalation toxicity are not classified for the product as a whole. May cause an allergic skin reaction. May cause cancer. Suspected of damaging fertility or the unborn child.

Processing exposure. Fume may cause metal fume fever with delayed thirst, metallic taste, respiratory irritation, cough, fever, chills, headache, nausea, sweating, weakness, and malaise. Dust may irritate skin and eyes; slivers can cause mechanical injury; hot metal causes thermal burns.

Chronic component effects. Finely divided aluminum may cause pulmonary fibrosis; silicon may cause chronic bronchitis; excess manganese may affect the lungs and nervous system; nickel may cause dermatitis; silver may cause argyria. Certain nickel, cobalt, chromium, and cadmium forms carry carcinogenic classifications.

Ingredient data. Nickel and cobalt are IARC Group 2B; chromium metal is Group 3; cadmium is Group 1. Effects depend on chemical form and exposure generated by processing.

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity	The product contains components that are environmentally hazardous; small chips and processing dust may be toxic to aquatic life.
Persistence / degradability	Aluminum alloys and copper are not readily biodegradable.
Bioaccumulation	No bioaccumulation is reported for cobalt in the supplied data; product-wide data are not available.
Mobility in soil	Not available.
Other adverse effects	Avoid unnecessary release into the environment. Silver and cadmium are highly toxic to aquatic organisms at low concentrations.

SECTION 13 - DISPOSAL CONSIDERATIONS

Recycle solid aluminum scrap whenever possible. Dispose of product and processing wastes in accordance with local, regional, state, federal, provincial, territorial, and international requirements. Characterize dust, sludge, fines, and other process residues before disposal.

SECTION 14 - TRANSPORT INFORMATION

DOT	Not regulated for transport in finished solid form.
IMDG	Not regulated for transport in finished solid form.
IATA	Not regulated for transport in finished solid form.
TDG	Not regulated for transport in finished solid form.
Special precautions	Secure bundles and fabricated bars against shifting, sliding, or release during transportation.

SECTION 15 - REGULATORY INFORMATION

U.S. federal. Constituents are listed on the U.S. TSCA inventory. The supplied SDS identifies immediate and delayed hazards under SARA 311/312. Aluminum, zinc, copper, nickel, manganese, silver, chromium, cobalt, and cadmium may be subject to SARA 313 reporting at applicable thresholds.

CERCLA. Zinc, copper, nickel, silver, chromium, and cadmium have reportable quantities subject to material form and release conditions.

California Proposition 65. The alloy may include nickel, cobalt, and cadmium. Evaluate the applicable alloy certification and exposure conditions to determine warning requirements.

Canadian regulations. Ingredient listings and classifications may be subject to the Canadian DSL and applicable federal and provincial requirements.

HMIS	Health 2* | Flammability 0 | Physical Hazard 0 (*processing dust/fume hazard)
NFPA	Health 2 | Flammability 0 | Instability 0

SECTION 16 - OTHER INFORMATION

This SDS covers 3GEN Aluminum Termination Bars for Flashing manufactured from aluminum alloys within the 1XXX through 7XXX series. Composition varies by alloy and lot; the applicable material certification controls.

The information is believed accurate as of the revision date and is provided as guidance. Users must evaluate their operations, maintain appropriate controls and PPE, and comply with applicable requirements.

Prepared by	3GEN Masonry Products, Inc. - Product Technical / EHS
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24-hour emergency	CHEMTREC 1-800-424-9300

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