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SECTION 1

PRODUCT IDENTIFICATION

PRODUCT NAME: Universal Aluminium Foil

CHEMICAL NAME: Aluminum alloys

FORMULA: Al plus other metal

SECTION 2

HAZARD IDENTIFICATION

Inhalation: Not likely unless machined, welded or re-melted. Then fumes may cause irritation to

nose and throat.

Ingestion: Not likely.

Skin Contact & Absorption : Absorption unlikely, but skin contact with hot aluminum (solid aluminum does

not change color during heating) could cause burrs. Sharp edges can cause cuts.

Eyes: Fumes may cause irritation.

Acute and Chronic Effect

Other than cuts. scratches. burns. eye irritation, no lasting effects on

on Health: health are known.

SECTION 3

COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL	CAS NO.	PERCENT BY WT,	ACGIH TLV (mg/m³)	OSHA PEL (mg/m³)
Aluminum (Al)	7429-90-5	*	10 (metal dust) 5 (fumes)	-
Copper (Cu)	7440-50-8	*		
Aluminum (Al)	7429-90-5	*	0.2 (fumes)	0.1 (fumes)
Iron (Fe)	7439-89-6	*	5 (fumes)	10 (oxide fumes)
Magnesium (mg)	7439-95-4	*	10 (oxide fumes)	15 (oxide fumes)
Manganese (Mn)	7439-96-5	*	5 (dust & compounds) 1 (fumes)	5 (fumes) (celling)
Silicon (Si)	7440-21-3	*	10 (total dust)	
Zinc (Zn)	7440-66-6	*	5 (oxide fumes)	5 (oxide fumes)

REMARKS: STEL FOR Mn is 3 mg/m³ (fumes) and PEL shown Is celling.

STEL for Zn is 10 mg/m³ (fumes)

•concentrations of these Ingredients in the different alloys will vary in accordance with customer specifications and industry standards. None of these Ingredients are presently listed in NTP, IARC or OSHA as being carcinogens or potential carcinogens.

SECTION 4

FIRST AID MEASURES

For eye contact, flush with running water; obtain) .medical attention If irritation persists. Remove to fresh air, if fumes cause irritation. If cuts incurred during handling, use standard first aid for cuts/scratches. If bums suffered from touching hot aluminum or molten aluminum, use standard first aid for burns and seek medical attention.

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SECTION 5 FIRE FIGHTING MEASURES

Flash Point: N/A

Flammable Limits:: Lowers - N/A; Upper - N/A
Extinguishing Media: Non-flammable in solid form.

Special Fire Fighting Procedures: Avoid use of water in fighting fires near molten aluminum.

Unusual Fire & No hazard in solid state. Dust/chips from grinding/machining may

Explosion Hazards: react with water lo produce explosive hydrogen gas or dust clouds at level greater than 0.04 oz./cu. ft

may be ignited by spark. Molten aluminum may explode on contact with water and may react violently

with rust and other metal oxides (e.g. copper, iron and lead.

SECTION 6 ACCIDENTAL RELEASE MEASURES

No other information.

SECTION 7 HANDLING AND STORAGE

Spill or Leak Procedures: N/A

Waste Disposal Method: Re-melt clean, dry scrap, _ If necessary to dispose of, act In accordance with all applicable Federal,

State and local waste regulations.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Appropriate protective .equipment .ls required when melting, casting, machining, sawing, welding or otherwise processing aluminum alloys. The nature .of the processing will determine what equipment is necessary. In handling aluminum sheet, protective gloves are recommended to avoid cuts; eye protection recommended .to avoid keeping foreign objects, (edges, pieces, dust) out of eyes; and foot protection recommended to prevent injury from heavy coils. Dust/mist respirator suggested when machining or grinding aluminum. Welder's helmet and gloves recommended when welding aluminum.

SECTION 9 PHYSICAL/CHEMICAL PROPERTIES

MATERIAL IS AT NORMAL CONDITIONS

LIQUID X SOLID GAS OTHER

ACIDITY/ALKALINITY: N/A

MELT/FREEZE POINT: 1165-1220 Degrees Fahrenheit

SOLUBILITY IN WATER: Insoluble
BOILING POINT: N/A

APPEARANCE/ODOR: Silvery/Odorless

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SPECIFIC GRAVITY (water-1): 2.70- 2.73

VAPOR DENSITY (AIR= 1): N/A

EVAPORATION RATE
(BUTYL ACETATE= 1): N/A

Stability: Unstable_____ Stable <u>YES</u>

Conditions to Avoid: See Fire & Explosion Section

Incompatibility (Materials to Avoid):

Decomposition Products:

Strong alkalies strong acids, halogens and oxidizing agents and certain halogenated hydrocarbons.

Hazardous

Hydrogen - when aluminum contacts acids and alkalies or water when in chip form.

Hazardous Polymerization: May Occur_____ Will Not Occur_X_

Conditions to Avoid: N/A

SECTION 11 TOXICOLOGICAL INFORMATION

Chemicals contained regulated ,under Section 313:of SARA Title III and 40 CFR 372 in amounts equal to or exceeding: (1) 9.1% tor substance meeting OSHA definition of a carcinogen: or (2) 1.0% for all other 313 listed Ingredients:

ALOY	313 LISTED CHEMICAL	CAS NUMBER	Percentage By Weight
1235	Aluminum	7429-90-5	99.35 Minimum
1200	Aluminum	7429-90-5	99.0 Minimum
1100	Aluminum	7429-90-5	99.0 Minimum
1145	Aluminum	7429-90-5	99.45 Minimum
1350	Aluminum	7429-90-5	99.5 Minimum
3003	Aluminum	7429-90-5	96 - 99
8011	Aluminum	7429-90-5	99.0 Minimum
1060	Aluminum	7429-90-5	99.60 Minimum
7072	Aluminum	7429-90-5	97 - 98 Minimum
	Zinc	7440-66-6	0.8 - 1.3 Minimum
8111	Zinc		98.00 Minimum

SECTION 12

ECOLOGICAL INFORMATION

No other information.

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SECTION 13 DISPOSAL CONSIDERATIONS

No other information.

SECTION 14 TRANSPORT INFORMATION

No other information.

SECTION 15 REGULATORY INFORMATION

No other information.

SECTION 16 OTHER INFORMATION

The welding of aluminum alloys may generate 'carbon dioxide, carbon monoxide, ozone and nitrogen oxides. Therefore, ensure adequate ventilation including powered exhaust If necessary to remove fumes from work area. Water and other forms of contamination or aluminum are known 10 cause explosions In melting operations. Avoid storing ·aluminum ,sheet and · aluminum foil In wet areas or those with high humidity to prevent corrosion and, in vicinity of alkalies, acids, halogens, oxidizing agents and certain halogenated hydrocarbons, to prevent chemical attack. Aluminum sheet and aluminum foil do not change color on being heated; so do not touch metal suspected of being hot.

Reason for revision: To bring to date.

END OF SDS