



Section 1 – COMPANY AND PRODUCT IDENTIFICATION

Manufacturer: Nexal Aluminum Inc. 5938 Ambler Drive Mississauga, ON L4W 2N3 Canada

Phone: 1-905-629-8282 Fax: 1-905-629-8532

Product trade name/Classification of ER/R: 1100, 2319, 4043, 4047(718), 5183, 5356, 5554, 5556, 5654

Section 2 – INFORMATION ON PRODUCT INGREDIENTS

Ingredients	%	CAS No.	Exposure Limit (mg/m ³)	
			OSHA PEL	ACGIH TLV
Aluminum (Al)	Bal.	7429-90-5	15 (total dust) 5 (Resp)	10 (dust) 5 (Resp)
Chromium (Cr) (*)	0.35	7440-47-3	1 (metal) 0.5 (Cr III) 0.005 (Cr VI)	0.5 (metal) 0.5 (Cr III) 0.05 (Cr VI)
Copper (Cu)	6.8	7440-50-8	1 (dust) 0.1(fume)	1 (dust) 0.2 (fume)
Iron (Fe) (limits as oxide fume)	0.95	7439-89-6	10	5
Magnesium (Mg)	5.5	7439-95-4	15 (total particulate)	10
Manganese (Mn) (limits as fume)	1.0	7439-96-5	1, 5*, 3.0**	0.2
Silicon (Si)	13.0	7440-21-3	15 (dust) 5 (Resp)	10
Beryllium (Be)	0.0008	7440-41-7	0.002 (TWA)	0.002 (TWA)
Titanium (Ti) Oxide dust	0.20	7440-32-6	15(total particulate) 5 (Resp)	10
Vanadium (V) Respirable dust	0.15	7440-62-2	0.05 as V ₂ O ₅	0.5 * as V ₂ O ₅
Zinc (Zn) Fume	0.30	7440-66-6	5	5

Single % are maximum; complete ingredients can be found on our website or data sheets. (*) water soluble Cr III & VI

Section 3 & 4 – HAZARD DATA & FIRST AID

Emergency Overview –product as shipped consists of a solid silvery metallic wire or rods which are non-reactive, nonflammable and has no immediate health hazard. In fire product can produce metal oxides fumes and personal protective equipment may be required.

INHALATION may be the most common cause of overexposure due to the welding fumes. Large amounts of welding fumes will cause irritation of the nose, eyes and skin

Section 5 & 6 – FIRE FIGHTING DATA & ACCIDENTAL RELEASE DATA

This product as shipped in non-flammable however fine chips and dust may increase the explosion rating under certain heat and other ignition hazards. Hydrogen gas and irritating fumes may form when involved in a fire or if decomposing is caused from water alcohols or sodium hydroxides.

Accidental Release

These solid aluminum products are in rod and wire form and has no hazards as shipped

Section 7 – HANDLING and STORAGE

As always welding items shall be stored in a cool low humid location and kept dry. During all operations do not eat or drink while handling and ensure proper ventilation when welding, brazing or processing. Ensure that all Federal Occupational Safety and Health guidelines are followed as well as well as your company’s safety guidelines. Read and understand ANSI Z49.1.

Section 8 & 9 – PERSONAL PROTECTION / EXPOSURE DATA & PHYSICAL / CHEMICAL DATA

Use welding alloy with proper and adequate ventilation/respiratory protection to maintain limits listed in Section 2. Respiratory protection is recommended and information may be found the OSHA STANDARDS (29 CFR 1910.134) as well as CSA Standards Z94.4 along with many other safety standards.

Use proper welding helmet or safety shields and also welding gloves and clothing as needed for job duties.

Physical & Chemical properties

These solid order-less rods has a silver metal appearance with a melting point of 1218f (658c) and are insoluble in water

The data and information contained or referenced is presented as typical results without guarantee or warranty and Nexal expressly disclaims liability incurred of any kind with reliance thereon.

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Section 10 & 11 – STABILITY / REACTIVITY & TOXIOLOGICAL DATA

This product with normal and proper storage will be stable. During welding, Brazing and processing may form fumes, dust and gas decomposition. Avoid extreme temperatures and incompatible materials such as some of the flowing; Strong Acids, strong bases, strong oxidizers, metal oxides, alcohols, hydrocarbons and halogens.

As always welding items shall be stored in a cool low humid location and kept dry. During all operations do not eat or drink while handling and ensure proper ventilation when welding, brazing or processing. Ensure that all Federal Occupational Safety and Health guidelines are followed as well as well as your company's safety guidelines. Read and understand ANSI Z49.1.

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Acute toxicity: Overexposure or inhalation of large amounts of welding fumes may cause symptoms such as metal fume fever, dizziness, nausea, dryness and irritation of your nose, throat or eyes as well as other lung disease.

Chronic toxicity: Overexposure or prolonged inhalation of large amounts of welding fumes with chromium compounds may cause cancer. Other overexposure or prolonged inhalation of large amounts of welding fumes symptoms related may include damage to the central nervous system, respiratory system, skin and could affect organs such as pancreas and liver

Carcinogenicity OSHA (29 CFR 1910.1200) lists Nickel and Chromium as possible carcinogens.

California Proposition 65

These products may contain or produces chemicals known to the State of California to cause cancer, and/or birth defects (or other reproductive harm).
(Health and Safety Code section 25249.5 et seq.)

Section 12 & 13 – ECOLOGICAL & DISPOSAL DATA

Ecological; The components and compounds of these products should not cause any adverse effects. Recycle when possible. Discard any un-wanted product, residues, containers, or liners in a suitable disposal container in an environmentally acceptable manner approved by Federal, State and Local regulations

Section 14 & 15 – TRANSPORT & REGULATORY DATA

This material is not considered as a dangerous good per regulations of transportation.

Ingredients are subject to U.S. SARA reporting requirements of Section, 304, 311, 312, and 313 of Title III of the Superfund and Reauthorization Act & the Emergency Planning and Community Right-To-Know Act of 1986 and 40CFR 370 and 372, SARA 304 = Chromium and its oxides or compounds, Copper and Zinc; SARA313 =Aluminum, Chromium and its oxides or compounds, Copper, Manganses and Zinc

ALL components are on: U.S. TSCA INVENTORY STATUS, CANADIAN DOMESTIC SUBSTANCE LIST and EUROPEAN COMMUNITY Core Inventory

Section 16 – OTHER DATA

FIRE: 0 HEALTH: 2 REACTIVITY: 0

Information contained in this (MSDS) Material Safety Data Sheet is accurate to the best of our knowledge. However, it does not express or implies any warranty with respect to this information.

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