

Safety Data Sheet (SDS)

安全資料表

一、化學產品與公司資料(Chemical Product and Company Identification)

物品名稱(Material Name)：鋁 (Aluminum)

化學公式(Chemical Formula)：混合物(Mixture)

製造商名稱(Company)：展維鋁業股份有限公司 (TZAN WEI ALUMINUM CO.,LTD.)

地址(ADDRESS)：台南市仁德區仁義里義林路 148 巷 45 號 (No.45, Lane 148, Yih-Lin Road, Jen-The District, Tainan City 71752, Taiwan)

電話(TEL)：886-6-2701136

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二、成分辨識資料(Composition and Information on Ingredients)

6061 合金組成(Composition)：

化學性質：		
物質成分之中英文名稱	濃度或濃度範圍(成分百分比)	CAS #編號
鋁(Al)	Bal.	7429-90-5
矽(Si)	0.4~0.8%	7440-21-3
鐵(Fe)	<0.7%	7439-89-6
銅(Cu)	0.15~0.4%	7440-50-8
錳(Mn)	<0.15%	7439-96-5
鎂(Mg)	0.8~1.2%	7439-95-4
鉻(Cr)	0.04~0.35%	7440-47-3
鋅(Zn)	<0.25%	7440-66-6
鈦(Ti)	<0.15%	7440-32-6
Other-each	<0.05%	
Other-total	<0.15%	

三、危害辨識資料(Hazards Identification)

潛在影響(Potential Acute Health Effects)：

接觸皮膚略有危害(刺激性)。對眼睛無刺激性。食入無危害性。

(Slightly hazardous in case of skin contact (irritant). Non-irritating to the eyes.

Non-hazardous in case of ingestion.)

潛在慢性影響(Potential Chronic Health Effects)：

最 重 要 危 害 效 應	健康危害效應： NA(CARCINOGENIC EFFECTS: Not available.)
	環境影響： NA(MUTAGENIC EFFECTS: Not available.)
	物理性及化學性危害： NA。(TERATOGENIC EFFECTS: Not available.)
	特殊危害： NA(DEVELOPMENTAL TOXICITY: Not available.)

物質對肺有毒性。反覆或長期暴露於此物質中將造成器官損害。反覆暴露於高毒性物質中，毒性將會累積於一個或多個器官中。

(The substance is toxic to lungs. Repeated or prolonged exposure to the substance can produce target organs damage. Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.)

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四、急救措施(First Aid Measures)

不同暴露途徑之急救方法：	
• 吸 入：	本產品型態吸入之可能性相當低。如吸入則速呼吸新鮮空氣；如無呼吸則施以人工呼吸；如呼吸困難則給予氧氣；並迅速接受醫療治療。(Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.)
• 皮膚接觸：	無危害性。可用肥皂水清洗；使用潤膚物質覆蓋受刺激皮膚；如刺激情形加劇則接受醫療治療。(Skin Contact: Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.)
• 眼睛接觸：	本產品型態接觸眼睛之可能性相當低；如接觸則立即以大量清水沖洗至少15分鐘以上；如發生刺激性情形則接受醫療治療。(Eye Contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.)
• 食 入：	本產品型態食入之可能性相當低。如食入，無醫護人員指示則不可進行催吐；如食入者無意識則不可給予任何物質於口中；如已大量吞入此物質則請求醫師協助；鬆脫較緊繃之衣物如：領帶、皮帶等。(Ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.)

Special Remarks on Fire Hazards: Not available.

Special Remarks on Explosion Hazards: Not available.

五、滅火措施(Fire and Explosion Data)

易燃物(Products of Combustion)：金屬氧化物(Some metallic oxides.)

滅火指示(Fire Fighting Media and Instructions)：小火使用乾性滅火器；大火則灑水或泡沫；不可使用噴水器(SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.)

六、洩漏處理方法(Accidental Release Measures)

小規模洩漏(Small Spill)：使用適當工具將洩漏固體放至容器中；使用清水清洗髒污表面並依照當地主管機關指示做處理。

(Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.)

大規模洩漏(Large Spill)：使用鏟子將洩漏固體放至容器中；使用清水清洗髒污表面並遵照衛生系統撤離人員。

(Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.)

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七、安全處置與儲存方法(Handling and Storage)

處置(Precautions)：

勿食入。穿著防護衣。如食入則立即依照包裝盒或標籤上成分尋求醫療建議。遠離氧化酸、氧化鹼。

(Do not ingest. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents, acids, alkalis.)

儲存(Storage)：

包裝緊閉。置於涼爽通風處。對濕氣敏感。

(Keep container tightly closed. Keep container in a cool, well-ventilated area. Moisture sensitive.)

八、暴露預防措施(Exposure Controls/Personal Protection)

工程控制(Engineering Controls)：加工的場所必需有通風裝置。塵、煙、霧皆需控制在暴露標準之下。

(Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.)

個人防護設備(Personal Protection)：

- 呼吸防護(Inhalation Protection)：口罩(Mask)
- 手部防護(Hands Protection)：手套(Gloves)
- 眼睛防護(Eyes Protection)：安全護目鏡(Safety glasses)
- 皮膚防護(Skin Protection)：工作鞋(Work shoes)

九、物理及化學性質(Physical and Chemical Properties)

物質狀態(Physical state and appearance)： 固體(Solid)	形狀： 圓棒狀
顏色(Color)： 金屬性灰(Silver-white)	氣味(Odor)： 無味(Odorless)
pH 值(pH (1% soln/water))： 不適用(Not applicable.)	熔點/熔點範圍(Melting Point)： 約 580°C-660°C
溶解度(Solubility)：不溶於水。可溶於鹼、硫酸、鹽酸。 (Insoluble in cold water, hot water. Soluble in alkalis, Sulfuric acid, Hydrochloric acid. Insoluble in concentrated Nitric Acid, hot Acetic acid.)	

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十、安定性及反應性(Stability and Reactivity Data)

安定性(Stability)：正常狀況下安定(The product is stable)
應避免之狀況(Conditions of Instability)：漏氣及腐蝕性物質會氧化本物質(Incompatible materials, exposure to moist air or water)
應避免之物質(Incompatibility with various substances)：強性氧化物、腐蝕劑(Reactive with oxidizing agents, acids, alkalis)
特殊腐蝕註明(Special Remarks on Corrosivity)：鋁合金接觸其他金屬時會快速腐蝕(Aluminum is strongly electropositive so that it corrodes rapidly in contact with other metals)

十一、毒性資料(Toxicological Information)

其他毒性對人體影響(Other Toxic Effects on Humans)：
皮膚：/刺激性(Slightly hazardous in case of skin contact (irritant))
眼睛：/接觸定量粉塵有危害(Slightly hazardous in case of eyes contact (irritant))
食入：/不會有急性毒反應(Non-hazardous in case of ingestion)
吸入：/吸入定量粉塵對呼吸有危害(Non-hazardous in case of inhalation)

十二、生態資料(Ecological Information)

生物降解(Products of Biodegradation)：短期危害不會造成生物降解，但長期下來可能發生。

(Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.)

十三、廢棄處置方法(Disposal Considerations)

廢棄處置方法(Waste Disposal)：1.參考現行法規。2.依儲存條件來儲存廢棄物。(Waste must be disposed of in accordance with local environmental control regulations.)

十四、運送資料(Transport Information)

運送規定(Transport regulations)：道路交通安全規則(local regulations)

特殊運送方法及注意事項(Special Provisions for Transport)：無特殊運送方法(Not applicable)

Organization Law of Occupation Safety and Health Administration Ministry of Labor-Ministry of Labor

十五、法規資料(Other Regulatory Information)

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適用法規(Regulatory Information)：

勞工安全衛生設施規則(Organization Law of Occupation Safety and Health Administration Ministry of Labor-Ministry of Labor)

危險物及有害物通識規則(Hazard Communication- Ministry of Labor)

勞工作業環境空氣中有害物容許濃度標準(Hazard Communication- Ministry of Labor)

事業廢棄物貯存清除處理方法及設施標準(Environment Policy- Environment Protection Administration Executive Yuan R.O.C.)

道路交通安全規則(The Road Traffic Security Rules-Ministry of Transportation and Communications R.O.C)

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十六、其他資料(Other Information)

製表單位 (Tabulation)	展維鋁業(股)有限公司(TZAN WEI ALUMINUM CO.,LTD.)
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