

The issue

Aluminosilicate Refractory Ceramic Fibres (Al-RCF) were identified as a Substance of Very High Concern (SVHC) in accordance with Article 57 (a) as they are classified in Annex VI, part 3, Table 3.1 (the list of harmonised classification and labelling of hazardous substances) of Regulation (EC) No 1272/2008 as carcinogen, Carc. 1B (H350i: "May cause cancer"), and were therefore included in the Candidate List for authorisation on 19 December 2011, following ECHA's decisions ED/77/2011 and ED/95/2012.

Identity of the substance

Aluminosilicate Refractory Ceramic Fibres (Al-RCF) are fibres covered by index number 650-017--00-8 in Annex VI, part 3, table 3.1 of Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, and fulfil the three following conditions:

- a) *oxides of aluminium and silicon are the main components present (in the fibres) within variable concentration ranges*
- b) *fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (μm)*
- c) *alkaline oxide and alkali earth oxide ($\text{Na}_2\text{O}+\text{K}_2\text{O}+\text{CaO}+\text{MgO}+\text{BaO}$) content less or equal to 18 % by weight*

Applications of Al-RCF

Al-RCF are used in high temperature industries as insulation. The largest single use is furnace linings and related applications (67 %) (Annex XV report, 2009, 2011). RCF's are low mass insulation materials and typically used for thermal insulation, heat shields, heat containment, gaskets and expansion joints at temperatures up to 1400 °C (temperatures can reach ranges of 1600 °C to 1850 °C) in industrial furnaces, ovens kilns, boilers, heating systems and other process equipment (e.g. ladles, tundishes, furnace doors).

Applications produced by Auramarine

Maximum temperature for Auramarine applications is less than 300 °C. Fibrous products for insulation applications in the temperature range to 300 °C generally comprise glass and mineral wools.

Auramarine Ltd. and **Auramarine Asia Ltd.** aim to ensure a high level of protection of human health and the environment. We here by declare under our sole responsibility that the products are manufactured in compliance with the directives addressed above and there are no AI-RCF substances in our products.

On behalf of Auramarine Ltd., in Lieto on 5 September 2023



Mr. Henri Rätty, CTO, Auramarine Ltd.