

# Human Health and Environmental Fact Sheet

**Disclaimer:** The information presented in this fact sheet was compiled from information from flame retardants manufacturers and public data sources. The authors cannot be held liable for factual errors. For latest information on substance testing, classification and labelling as well as regulatory status please contact the individual manufacturers and refer to their latest safety data sheet applicable in your country or region.

<b>Product name</b>	Aluminiumhydroxid	
<b>Synonyms</b>	APYRAL®	
<b>CAS no.</b>	21645-51-2	
<b>EINECS no.</b>	244-492-7	
<b>Molecular Structure</b>	$\begin{array}{c} \text{OH}^- \\ \text{AL}^{3+} \text{ OH}^- \\ \text{OH}^- \end{array}$	
<b>Mw</b>	78,00 g/mol	
<b>Mf</b>	AlH3O3	
<b>Physical form</b>	Solid	
<b>Hazard symbols</b>	None listed	
<b>Risk phrases</b>	None listed	
<b>Use</b>	Flame-retardant, filler	
<b>PBT/vPvB Evaluation</b>		
	<b>Conclusion</b>	<b>Comments</b>
Persistent or very Persistent	No	--
Bioaccumulative or very bioaccumulative	No	--
<b>Human Health</b>		
	<b>Result</b>	<b>Comments</b>
<i>Acute toxicity</i>		
Acute toxicity (LD <sub>50</sub> )	> 5000 mg/kg bw	Test Standard: OECD 401 Source: IUCLID Dataset
Eye irritation	No	Test Standard: OECD 405 Source: IUCLID Dataset
Skin irritation	No	Test Standard: OECD 404 Source: IUCLID Dataset
Sensitization	No data available	IUCLID Dataset

<i>Chronic toxicity</i>		
Carcinogenicity	No	IUCLID Dataset
Reprotoxicity	No data available	IUCLID Dataset
Genotoxicity	No data available	IUCLID Dataset
Teratogenicity	No	IUCLID Dataset
<b>Environment</b>		
	<b>Result</b>	<b>Comments</b>
Photodegradation	Not applicable	IUCLID Dataset
Stability in water	Not applicable	IUCLID Dataset
Stability in soil	Not applicable	IUCLID Dataset
Biodegradation	No data available	IUCLID Dataset
Distribution	No data available	IUCLID Dataset
Bioaccumulation	No data available	IUCLID Dataset
<b>Ecotoxicity</b>		
<i>Acute</i>	<b>Result</b>	<b>Comments</b>
Acute/prolonged toxicity to fish (NOEC)	> 100 mg/l	Species: salmo trutta Test Standard: OECD 203 IUCLID Dataset
Acute toxicity to aquatic invertebrates (NOEC)	> 100 mg/l	Species: daphnia magna Test Standard: OECD 202 IUCLID Dataset
Toxicity to algae (NOEC)	> 100 mg/l	Species: selenastrum capricornutum Test Standard: OECD 201 IUCLID Dataset
<i>Chronic</i>		
Chronic toxicity to fish	No data available	IUCLID Dataset
Chronic toxicity to aquatic invertebrates	No data available	IUCLID Dataset
<b>Physical properties</b>		
Vapour pressure at 25°C	Not applicable	IUCLID Dataset
Solubility in water	Not soluble	IUCLID Dataset
pH	7-9	IUCLID Dataset
Melting point	> 200 °C	Degradation into Aluminiumoxide and Water IUCLID Dataset
Boiling Point	Not applicable	IUCLID Dataset
Density	2,42 g/cm <sup>3</sup>	IUCLID Dataset

Partition coefficient	Not applicable	IUCLID Dataset
Flammability	Not flammable	IUCLID Dataset
Flash point	Not applicable	IUCLID Dataset
Auto flammability	Not applicable	IUCLID Dataset
Explosive Properties	Not explosive	IUCLID Dataset

More information:

[www.nabaltec.de](http://www.nabaltec.de) (Nabaltec website)