## The history of Antiknock compound production between the wars

Year	Political	Technical	Production
	Developments	Developments	Developments
1932	March		
	UK Government cancels rule that no		
	war is expected within 10 years.		
	Chiefs of Staff (CoS) make		
	recommendations to remedy worse		
	deficiencies.		
1932-	Disarmament Conference		
1934	Feb 1932 CoS no faith international		
	agreements		
	Oct 1933 Germany withdraws from		
	conference and starts to re-arm		
	illegally.		
1024	Apr 1934: Conference winds up.		
1934	CoS warn s of dangers of Germany and japan re-arming.		
	and Japan To arming.		
	German Air Force reforms.		
	Mussolini authorises Italy to		
	manufacture lead Alkyls.		
	,		
	Baldwin pledges UK parity with		
4005	German Air Force.	A in Min in to	
1935	Plans being drawn up by CoS for total war. UK Government no longer to rely	Air Ministry approach Ethyl	
	on collective security.	Export Corp	
	on concents seeding.	about the	
	Baldwin and Churchhill disagree on	possibility of	
	strength of German Air Force	providing AKC.	
	In the Newscales Organist starting	A	
	In the November General election government ask for mandate for re-	Aug: Ethyl Export agree to	
	armament. Chancellor estimates an	supply France	
	extra £120m 35 -39	with AKC for	
		aviation fuel.	
	German Air Ministry negotiates for		
	AKC Plant. Construction begins.		

1936	British Rearmament begins. Estimates increased to £150m (20% of Germany level)  RAF strategy based on bombers. RAF get only 50% of that spent on Army & less than 25% of Navy spend.	May: British Ethyl Corp incorporated to hold the technical information and to build an AKC plant.  Aug: A team from ICI visit USA to obtain technical information about AKC manufacture.	Air Ministry specify a 2 Autocalve AKC Plant 1.1m lbs per year capacity.  Apr: German AKC plant ready.
1937	Armament estimates increased by £1500m over years 1937 -1942  Additional airplanes authorised.  National Defence Contribution tax introduced.  French Gov sanction AKC Plant	F.R. Banks (Ethyl Export) pleads for development of aero engines to take 100 Octane fuel	Bromine from brine Pilot Plant built and trails begin.  Italian AKC plant ready by December
1938	Services freed from the restriction not to interfere with normal trade.  Manufactures could be urged to produce more planes.  Air ministry sanctions AKC plant in UK	May: ICI bromine team visit USA for technical information.  90% US aviation fuel @100 Octane RAF fuel @87 Octane Spec DTD-230 100 octane fuel available by additional alkylation refining process.  Oct: Ministry concerned about security of bromine production and in Dec begins a search for location of bromine plant.	Air Ministry specify a 4 Autocalve AKC Plant 3.3m lbs per year capacity.  French AKC plant operational.

1939	Government authorises aircraft production "to the limit" of available resources. <b>Aug:</b> Air Ministry authorises building	Stockpiling of 100 Octane fuel via alkylation begins.	Air Ministry specify an 8 Autocalve AKC Plant 6.6m lbs per year capacity.			
	of UK AKC plants at Northwich and Hayle.	Jan: Ethyl Export & Dow (US) agreement on rights to sea-	Construction of French Bromine plant started.			
		water Br extraction process.	Sep: Construction of UK AKC plant at Northwich and bromine plant at			
		Apr Bromine team visit Dow to develop process operation and engineering plans.	Hayle started.			
		May -July Team visit US for training and operating experience in manf. of AKC				
1940		Merlin aeroengine rating increased from 1000bhp to	May: French Bromine Plant operating			
		1300bhp using 100 Octane fuel.	Aug: UK Bromine plant commissioned			
		100 Octane fuel available for Fighter Command	Sept: UK AKC Plant commissioned			
1941		100 Octane fuel available for Bomber Command				
	Information provided by Arthur Fairhurst 2015					