

Alpha Cleantec AG Newsletter January 2023



Dear Madam or Sir,

We hope this email finds you well, healthy, and fully charged with energy after the pleasant winter holidays. Today we send you our next Newsletter containing the January updates.

From our R&D department, we are happy to provide you with a new update regarding customer projects.

Th Pr	ie oblem:	At the end of last year, we successfully accomplished a pilot test with one of the EU manufacturers of insulation boards and panels. One of the challenges of this manufactures was the generation of industrial wastewater with solvents and dioxane leftovers as a process byproduct. The target of the pilot was wastewater decontamination and increasing the flash point of this water.							
The Objective:		Therefore, the customer intends to rapidly and cost-effectively decontaminate the industrial wastewater from organic materials and increase wastewater flash point to meet the EU threshold value regulation for the current contaminants.							
		We have implemented our SOA-AFA solution as a treatment agent based on a batch treatment approach. As shown below, our reagent is an efficient reagent for this type of wastewater, with a conversion of 87-90% after a single treatment. In addition, our agent efficiently increased the flash point of the wastewater.							
	lution:	based on a ba reagent is an ef conversion of 8	tch treatment appr ficient reagent for th 17-90% after a single	oach. As shown b is type of wastewat e treatment. In add	elow, our ter, with a dition, our				
So	-	based on a ba reagent is an ef conversion of 8	tch treatment appr ficient reagent for th 17-90% after a single	oach. As shown b is type of wastewat e treatment. In add	elow, our ter, with a dition, our				
So	lution:	based on a ba reagent is an ef conversion of 8	tch treatment appr ficient reagent for th 17-90% after a single	oach. As shown b is type of wastewat e treatment. In add	elow, our ter, with a dition, our	Flash point- Before treatment (°C)	Flash point- After treatment (°C)		
So	esults:	based on a ba reagent is an ef- conversion of 8 agent efficiently	tch treatment appr ficient reagent for th 17-90% after a single increased the flash Before treatment	oach. As shown be is type of wasteward treatment. In add point of the wastew	elow, our ter, with a dition, our vater.	Before treatment	After treatment		
So	esults: Sample	based on a bareagent is an efficiently Contaminant	tch treatment appr ficient reagent for the 17-90% after a single v increased the flash Before treatment (ppm mg/L)	oach. As shown be is type of wasteward treatment. In add point of the wastew After treatment (ppm mg/kg)	elow, our ter, with a dition, our vater. Conversion (%)	Before treatment (°C)	After treatment (°C)		
So	esults: Sample	based on a bareagent is an efficiently Contaminant 1,4-Dioxane	tch treatment appr ficient reagent for the 17-90% after a single v increased the flash Before treatment (ppm mg/L) 321,000	After treatment (ppm mg/kg)	elow, our ter, with a dition, our vater. Conversion (%)	Before treatment (°C)	After treatment (°C)		

Maybe you face similar challenges in your business. Then please feel free to contact us.





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https://www.linkedin.com/company/alpha-cleantec-ag/

About Alpha Cleantec AG

We believe that our eco-system requires looking after so we have a world worth living in to pass to our next generations. Decontamination of soil and water from hazardous contaminants plays a major role in this regard, in our view. This is why we established Alpha Cleantec AG as an environmental technology company in 2016 with a vision to provide safe, green, rapid, efficient and cost effective technologies to resolve environmental harms and hazards caused by inadequate human and industrial activities.

Alpha Cleatec AG provides two technologies, AFA and SOA, achieving decontamination ratios of up to 97% for a wide range of contaminants in just hours (such as Hydrocarbons, BTEX, Petroleum leftovers, Aromatics, PAHS, Chlorinated Solvents, PCBs, Dioxins as well as Pesticides and Herbicides) to be applied for soil, wastewater and railway ballast treatment.

Table of contaminants treatable by our technologies

	IN-SITU		ON SITE		
CONTAMINANTS	SOA	AFA	SOA	AFA	
BTEX					
Benzene	•	•	•	•	
Toluene	•	•	•	•	
Ethylbenzene	•	•	•	•	
Xylene	•	•	•	•	
PETROLEUM HYDROCARBONS					
Gasoline Range Organics (GRO)	•	•	•	•	
Diesel Range Organics (DRO)	•	•	•	•	
Oil Range Organics (ORO)	•	•	•	•	
AROMATICS			1		
Chlorobenzene	•	•	•	•	
Bromobenzene	•	•		•	
Dichlorobenzene	•	•	•	•	
Nitrobenzene	•		•		
Phenol	•		•		
Styrene	•	•	•	•	
Naphthalene	•	•		•	
Trichlorobenzene	•		•		
Trimethylbenzene	•	•	•	•	
PAHS					
Phenathrene	•	•	•	•	
Naphthalene	•		•		
Acenaphthylene	•		•		
CHLORINATED SOLVENTS					
Tetrachloroethylene	•				
Trichlorpethene	•	•	•	•	
Dichloroethene	•	•	•	•	
Vinyl chloride	•				
Tetrachloroethane	•	•	•	•	
Trichloroethane	•				
Dichloroethane	•	•	•	•	
Dibromochloroethane	•	•	•	•	
Bromodichloromethane	•				
Carbon tetrachloride	•	•	•	•	
Chloroethane	•	•	•	•	
Chloroform	•	•	•	•	
Chloromethane	•	•	•	•	
Chlorotoluene	•	•	•	•	
Methylene chloride	•		•		
PCBS	•	•	•	•	
DIOXINS		•		•	
PESTICIDES AND HERBICIDES					
Glyphosate	•				
Goal	-		-		



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We plan to inform you in future whenever we accomplished projects, pilots or case studies. Please let us know if you do not wish to get our company news.

Kind regards

Mit freundlichen Grüßen Andreas Danner **Alpha Cleantec AG**

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