

Allegato 3)

**Rapporti di prova caratterizzazione – eluato test di cessione
CER 170504**



TECNOLOGIE DI BONIFICA E MONITORAGGIO

Via Segrino, 6 – 20098 Sesto Ult. Di S. Giuliano Mil.se (MI) Tel. 02/9880762 Fax 02/98281628
Corte degli Arrotini, 1 – 28100 Novara Tel. 0321/499488 Fax 0321/520037

Rapporto di Prova n° 21LA23968 del 14/06/2021

Ordine n : 21-005355

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 Committente : BETA s.r.l. Tecnologie di bonifica e monitoraggio
 VIA REZZONICO N° 39
 22100 - COMO (CO)

DATI DEL CAMPIONE (dati del campione forniti dal committente) :

 Produttore : SARPOM SRL
 Descrizione : Zona manomissione 1-3 mt
 Identificazione del campione : Rifiuto
 Luogo di prelievo : Gravellona Lom.
 Piano di campionamento : Effettuato dal cliente

DATI DEL PRELIEVO (dati di campionamento forniti dal committente) :

 Prelevato da : Cliente
 Data prelievo : 24/05/2021

 Data arrivo campione : 26/05/2021
 Data inizio prove : 27/05/2021
 Data fine prove : 07/06/2021
 Temperatura di ricevimento del campione: 18 °C
 (temperatura superficiale misurata con un termometro
 ad infrarossi)
 Contenitore di prelievo : Plastica

Prova	U.d.M.	Risultato	Incertezza	LoQ	LoD	Metodo
Cromo esavalente	mg/kg	< 5		5		CNR IRSA 16 Q 64 Vol 3 1986
pH	Unità di pH	7,3	± 0.7	1		CNR IRSA 1 Q64 Vol 3 1985 + APAT CNR IRSA 2060 Man 29 2003
Residuo secco a 105°C	%	90,4	± 6.3	0.5		UNI EN 14346:2007 Metodo A
Arsenico	mg/kg	< 5		5		UNI EN 16174:2012 + UNI EN ISO 11885:2009
Cadmio	mg/kg	< 1		1		UNI EN 16174:2012 + UNI EN ISO 11885:2009
Cromo	mg/kg	13,5	± 5.4	5		UNI EN 16174:2012 + UNI EN ISO 11885:2009
Mercurio	mg/kg	< 1		1		UNI EN 16174:2012 + UNI EN ISO 11885:2009
Nichel	mg/kg	11,9	± 4.8	10		UNI EN 16174:2012 + UNI EN ISO 11885:2009
Piombo	mg/kg	< 10		10		UNI EN 16174:2012 + UNI EN ISO 11885:2009
Rame	mg/kg	< 10		10		UNI EN 16174:2012 + UNI EN ISO 11885:2009
Zinco	mg/kg	22,9	± 9.2	5		UNI EN 16174:2012 + UNI EN ISO 11885:2009
Idrocarburi minerali da C10 a C40	mg/kg	10600	± 4240	100		UNI EN 14039:2005
Idrocarburi leggeri C<10	mg/kg	213	± 128	10		EPA 5021A 2014 + EPA 8015C 2007
IDROCARBURI POLICICLICI AROMATICI						UNI EN 15527:2008
Acenaftene	mg/kg	< 5		5		UNI EN 15527:2008
Acenaftilene	mg/kg	< 5		5		UNI EN 15527:2008
Antracene	mg/kg	< 5		5		UNI EN 15527:2008
Benzo(a)antracene	mg/kg	< 5		5		UNI EN 15527:2008
Benzo(a)pirene	mg/kg	< 5		5		UNI EN 15527:2008
Benzo(b)fluorantene	mg/kg	< 5		5		UNI EN 15527:2008
Benzo(e)pirene	mg/kg	< 5		5		UNI EN 15527:2008
Benzo(g,h,i)perilene	mg/kg	< 5		5		UNI EN 15527:2008
Benzo(j)fluorantene	mg/kg	< 5		5		UNI EN 15527:2008
Benzo(k)fluorantene	mg/kg	< 5		5		UNI EN 15527:2008
Crisene	mg/kg	< 5		5		UNI EN 15527:2008
Dibenzo(a,e)pirene	mg/kg	< 5		5		UNI EN 15527:2008
Dibenzo(a,h)antracene	mg/kg	< 5		5		UNI EN 15527:2008
Dibenzo(a,h)pirene	mg/kg	< 5		5		UNI EN 15527:2008
Dibenzo(a,i)pirene	mg/kg	< 5		5		UNI EN 15527:2008
Dibenzo(a,l)pirene	mg/kg	< 5		5		UNI EN 15527:2008
Fenantrene	mg/kg	< 5		5		UNI EN 15527:2008
Fluorantene	mg/kg	< 5		5		UNI EN 15527:2008
Fluorene	mg/kg	< 5		5		UNI EN 15527:2008

Documento con firma digitale avanzata ai sensi della normativa vigente.

Segue rapporto di prova 21LA23968 del 14/06/2021

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Prova	U.d.M.	Risultato	Incertezza	LoQ	LoD	Metodo
Indeno(1,2,3-cd)pirene	mg/kg	< 5		5		UNI EN 15527:2008
Naftalene	mg/kg	10,8	± 6.5	5		UNI EN 15527:2008
Perilene	mg/kg	< 5		5		UNI EN 15527:2008
Pirene	mg/kg	< 5		5		UNI EN 15527:2008
Sommatoria policiclici aromatici	mg/kg	10,8	± 6.5	5		Calcolo
SOLVENTI ORGANICI						
1,1,1,2-Tetracloroetano	mg/kg	< 5		5		EPA 5021A 2014 + EPA 8260D 2018
1,1,1-Tricloroetano	mg/kg	< 5		5		EPA 5021A 2014 + EPA 8260D 2018
1,1,2,2-Tetracloroetano	mg/kg	< 5		5		EPA 5021A 2014 + EPA 8260D 2018
1,1,2-Tricloroetano	mg/kg	< 5		5		EPA 5021A 2014 + EPA 8260D 2018
1,1-Dicloroetano	mg/kg	< 5		5		EPA 5021A 2014 + EPA 8260D 2018
1,1-Dicloroetilene	mg/kg	< 5		5		EPA 5021A 2014 + EPA 8260D 2018
1,1-Dicloropropilene	mg/kg	< 5		5		EPA 5021A 2014 + EPA 8260D 2018
1,2,3-Triclorobenzene	mg/kg	< 5		5		EPA 5021A 2014 + EPA 8260D 2018
1,2,3-Tricloropropano	mg/kg	< 5		5		EPA 5021A 2014 + EPA 8260D 2018
1,2,4-Triclorobenzene	mg/kg	< 5		5		EPA 5021A 2014 + EPA 8260D 2018
1,2,4-Trimetilbenzene	mg/kg	20,5	± 6.1	5		EPA 5021A 2014 + EPA 8260D 2018
1,2-Dibromo-3-cloropropano	mg/kg	< 5		5		EPA 5021A 2014 + EPA 8260D 2018
1,2-Dibromoetano	mg/kg	< 5		5		EPA 5021A 2014 + EPA 8260D 2018
1,2-Diclorobenzene	mg/kg	< 5		5		EPA 5021A 2014 + EPA 8260D 2018
1,2-Dicloroetano	mg/kg	< 5		5		EPA 5021A 2014 + EPA 8260D 2018
1,2-Dicloroetilene (E)	mg/kg	< 5		5		EPA 5021A 2014 + EPA 8260D 2018
1,2-Dicloroetilene (Z)	mg/kg	< 5		5		EPA 5021A 2014 + EPA 8260D 2018
1,2-Dicloropropano	mg/kg	< 5		5		EPA 5021A 2014 + EPA 8260D 2018
1,3,5-Triclorobenzene	mg/kg	< 5		5		EPA 5021A 2014 + EPA 8260D 2018
1,3,5-Trimetilbenzene	mg/kg	7,4	± 2.2	5		EPA 5021A 2014 + EPA 8260D 2018
1,3-Butadiene	mg/kg	< 50		50		EPA 5021A 2014 + EPA 8260D 2018
1,3-Diclorobenzene	mg/kg	< 5		5		EPA 5021A 2014 + EPA 8260D 2018
1,3-Dicloropropano	mg/kg	< 5		5		EPA 5021A 2014 + EPA 8260D 2018
1,4-Diclorobenzene	mg/kg	< 5		5		EPA 5021A 2014 + EPA 8260D 2018
2,2-Dicloropropano	mg/kg	< 5		5		EPA 5021A 2014 + EPA 8260D 2018
2-Clorotoluene	mg/kg	< 5		5		EPA 5021A 2014 + EPA 8260D 2018
2-Nitropropano	mg/kg	< 50		50	(*)	EPA 5021A 2014 + EPA 8260D 2018
4-Clorotoluene	mg/kg	< 5		5		EPA 5021A 2014 + EPA 8260D 2018
Acetone	mg/kg	< 50		50		EPA 5021A 2014 + EPA 8260D 2018
Acrilonitrile	mg/kg	< 50		50	(*)	EPA 5021A 2014 + EPA 8260D 2018
Benzene	mg/kg	< 5		5		EPA 5021A 2014 + EPA 8260D 2018
Bromobenzene	mg/kg	< 5		5		EPA 5021A 2014 + EPA 8260D 2018
Bromoclorometano	mg/kg	< 5		5		EPA 5021A 2014 + EPA 8260D 2018
Bromodiclorometano	mg/kg	< 5		5		EPA 5021A 2014 + EPA 8260D 2018
Bromoformio	mg/kg	< 5		5		EPA 5021A 2014 + EPA 8260D 2018
Carbonio tetracloruro	mg/kg	< 5		5		EPA 5021A 2014 + EPA 8260D 2018
Clorobenzene	mg/kg	< 5		5		EPA 5021A 2014 + EPA 8260D 2018
Cloroformio	mg/kg	< 5		5		EPA 5021A 2014 + EPA 8260D 2018
Clorometano	mg/kg	< 10		10		EPA 5021A 2014 + EPA 8260D 2018
Dibromoclorometano	mg/kg	< 5		5		EPA 5021A 2014 + EPA 8260D 2018
Dibromometano	mg/kg	< 5		5		EPA 5021A 2014 + EPA 8260D 2018
Diclorometano	mg/kg	< 50		50		EPA 5021A 2014 + EPA 8260D 2018
Esaclorobutadiene	mg/kg	< 5		5		EPA 5021A 2014 + EPA 8260D 2018
Etanolo	mg/kg	< 50		50		EPA 5021A 2014 + EPA 8260D 2018
Etere isopropilico	mg/kg	< 50		50		EPA 5021A 2014 + EPA 8260D 2018
Etilacetato	mg/kg	< 50		50		EPA 5021A 2014 + EPA 8260D 2018
Etilbenzene	mg/kg	< 5		5		EPA 5021A 2014 + EPA 8260D 2018
iso-Butanolo	mg/kg	< 50		50		EPA 5021A 2014 + EPA 8260D 2018
iso-Butilacetato	mg/kg	< 50		50		EPA 5021A 2014 + EPA 8260D 2018
iso-Propanolo	mg/kg	< 50		50		EPA 5021A 2014 + EPA 8260D 2018
iso-Propilbenzene (Cumene)	mg/kg	< 5		5		EPA 5021A 2014 + EPA 8260D 2018
m+p-Xilene	mg/kg	28,8	± 8.6	5		EPA 5021A 2014 + EPA 8260D 2018

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Segue rapporto di prova 21LA23968 del 14/06/2021

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Prova	U.d.M.	Risultato	Incertezza	LoQ	LoD	Metodo
Metil metacrilato	mg/kg	< 50		50	(*)	EPA 5021A 2014 + EPA 8260D 2018
Metanolo	mg/kg	< 50		50		EPA 5021A 2014 + EPA 8260D 2018
Metil Etilchetone	mg/kg	< 50		50		EPA 5021A 2014 + EPA 8260D 2018
Metil isobutilchetone	mg/kg	< 50		50		EPA 5021A 2014 + EPA 8260D 2018
n-Butanolo	mg/kg	< 50		50		EPA 5021A 2014 + EPA 8260D 2018
n-Butilacetato	mg/kg	< 50		50		EPA 5021A 2014 + EPA 8260D 2018
n-Butilbenzene	mg/kg	< 5		5		EPA 5021A 2014 + EPA 8260D 2018
n-Decano	mg/kg	268	± 80	5		EPA 5021A 2014 + EPA 8260D 2018
n-Eptano	mg/kg	< 5		5		EPA 5021A 2014 + EPA 8260D 2018
n-Esano	mg/kg	< 5		5		EPA 5021A 2014 + EPA 8260D 2018
n-Nonano	mg/kg	52,0	± 15.6	5		EPA 5021A 2014 + EPA 8260D 2018
n-Ottano	mg/kg	< 5		5		EPA 5021A 2014 + EPA 8260D 2018
n-Propilbenzene	mg/kg	< 5		5		EPA 5021A 2014 + EPA 8260D 2018
Nitrobenzene	mg/kg	< 50		50		EPA 8260D 2018
o-Xilene	mg/kg	16,8	± 5.0	5		EPA 5021A 2014 + EPA 8260D 2018
p-Isopropiltoluene	mg/kg	< 5		5		EPA 5021A 2014 + EPA 8260D 2018
sec-Butilbenzene	mg/kg	< 5		5		EPA 5021A 2014 + EPA 8260D 2018
Stirene	mg/kg	< 5		5		EPA 5021A 2014 + EPA 8260D 2018
tert-Butilbenzene	mg/kg	< 5		5		EPA 5021A 2014 + EPA 8260D 2018
Tetracloroetilene	mg/kg	< 5		5		EPA 5021A 2014 + EPA 8260D 2018
Toluene	mg/kg	5,7	± 1.7	5		EPA 5021A 2014 + EPA 8260D 2018
Tricloroetilene	mg/kg	< 5		5		EPA 5021A 2014 + EPA 8260D 2018

Fine Rapporto di prova

La riga contrassegnata da asterisco (*) indica che la prova non è accreditata da Accredia.

Le analisi, se non specificato altrimenti sono da considerarsi effettuate in unica replica sul campione tal quale.

Il laboratorio declina la propria responsabilità sui risultati calcolati considerando i dati di campionamento forniti dal Cliente stesso.

 L'incertezza estesa è espressa come incertezza tipo composta moltiplicata per il fattore di copertura minimo $k=2$ che corrisponde ad un livello di fiducia del 95% circa.

La responsabilità del corretto e idoneo campionamento è a carico del Cliente.

I recuperi, se non diversamente specificato, sono conformi a quanto prescritto dal metodo, se previsti.

I dati ottenuti in fase di validazione sono a disposizione del cliente presso il laboratorio.

LoQ (limite di quantificazione), a fianco, se diverso è riportato il valore di LoD (limite di rilevabilità); il risultato preceduto dal simbolo "<" indica un valore inferiore a LoQ, se presenti LoD e LoQ, viene indicato il valore inferiore a LoD. I valori compresi tra LoD e LoQ sono indicativi e non associati all'incertezza.

I risultati contenuti nel presente Rapporto di Prova sono riferiti esclusivamente ai campioni analizzati.

Il presente Rapporto di Prova non può essere riprodotto parzialmente ma solo nella sua forma completa, salvo autorizzazione scritta del Laboratorio.

OPINIONI E INTERPRETAZIONI NON OGGETTO DELL'ACCREDITAMENTO ACCREDIA :

VALUTAZIONE AI FINI DELLA CLASSIFICAZIONE IN ACCORDO CON il Regolamento 1357/2014 alla Decisione 2014/955 Ue e al Regolamenti n. 2017/997/UE.

Per il rifiuto in oggetto:

CER dichiarato dal cliente: 17 05 04 terra e rocce, diverse da quelle di cui alla voce 17 05 03

Con riferimento ai codici da HP3 a HP8 ed ai codici HP10, HP11, HP13 e HP14, visti i risultati analitici rilevati sul campione analizzato, relativamente ai parametri individuati in base alla tipologia del rifiuto ed alle indicazioni fornite dal produttore sulle materie prime utilizzate e sul ciclo produttivo, il campione in esame non presenta caratteristiche di pericolosità e pertanto risulta:

NON PERICOLOSO

Vista la Decisione 2014/955 Ue, nella valutazione delle caratteristiche di pericolo, sono state applicate le note contenute nell'allegato VI del regolamento (CE) n. 1272/2008 modificato dal Reg UE 1179/2016 e 776/2017.

 Il Responsabile del Laboratorio
 Dr. Andrea Fontana
 Chimico
 Ordine dei Chimici del Piemonte e Valle d'Aosta
 Sigillo n.260

Rapporto di Prova n° 21LA23969 del 14/06/2021

Ordine n : 21-005355

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 Committente : BETA s.r.l. Tecnologie di bonifica e monitoraggio
 VIA REZZONICO N° 39
 22100 - COMO (CO)

DATI DEL CAMPIONE (dati del campione forniti dal committente) :

 Produttore : SARPOM SRL
 Descrizione : Zona manomissione 1-3 mt
 Identificazione del campione : Rifiuto
 Luogo di prelievo : Gravellona Lom.
 Piano di campionamento : Effettuato dal cliente

DATI DEL PRELIEVO (dati di campionamento forniti dal committente) :

 Prelevato da : Cliente
 Data prelievo : 24/05/2021

 Data arrivo campione : 26/05/2021
 Data inizio prove : 27/05/2021
 Data fine prove : 04/06/2021
 Temperatura di ricevimento del campione: 18 °C
 (temperatura superficiale misurata con un termometro
 ad infrarossi)

LIMITI :

Riferimento di Legge : DLgs 36/2003 come modificato dal DLgs 3 settembre 2020, n.121 Par. 2

Contenitore di prelievo : Plastica

Prova	U.d.M.	Risultato	Incertezza	Limite di legge		LoQ	LoD	Metodo
				Inf.	Sup.			
Stato	-	Solido non omogeneo						ASTM D4979-19
Massa del campione di laboratorio	g	6487					(*)	MI-08-64/2020 Rev 0
Metodo di riduzione delle dimensioni		Con mulino					(*)	MI-08-64/2020 Rev 0
Frazione maggiore di 4 mm	%	< 0,5				0.5	(*)	MI-08-64/2020 Rev 0
Frazione non macinabile	%	< 0,5				0.5	(*)	MI-08-64/2020 Rev 0
Residuo secco a 105°C	%	90,4	± 6.3	25		0.5		UNI EN 14346:2007 Metodo A
TDS in eluato da test di cessione	mg/l	39,0	± 23.4		10000	10		UNI 10802:2013 (App.A Punto A.2) + UNI EN 12457-2:2004 + APAT CNR IRSA 2090A Man 29 2003
Conducibilità in eluato da test di cessione	µS/cm	15,8	± 3.2			10		UNI 10802:2013 (App.A Punto A.2) + UNI EN 12457-2:2004 + APAT CNR IRSA 2030 Man 29 2003
DOC in eluato da test di cessione	mg/l	3,7	± 1.1		100	2		UNI 10802:2013 (App.A Punto A.2) + UNI EN 12457-2:2004 + UNI EN 1484:1999
pH in eluato da test di cessione	Unità di pH	7,3	± 0.7					UNI 10802:2013 (App.A Punto A.2) + UNI EN 12457-2:2004 + APAT CNR IRSA 2060 Man 29 2003
Cloruri in eluato da test di cessione	mg/l	1,1			2500	10	0.08	UNI 10802:2013 (App.A Punto A.2) + UNI EN 12457-2:2004 + APAT CNR IRSA 4020 Man 29 2003
Fluoruri in eluato da test di cessione	mg/l	0,18	± 0.05		15	0.15	0.01	UNI 10802:2013 (App.A Punto A.2) + UNI EN 12457-2:2004 + APAT CNR IRSA 4020 Man 29 2003
Solfati in eluato da test di cessione	mg/l	0,84			5000	10	0.1	UNI 10802:2013 (App.A Punto A.2) + UNI EN 12457-2:2004 + APAT CNR IRSA 4020 Man 29 2003
Antimonio in eluato da test di cessione	mg/l	0,0003			0.07	0.002	0.000	UNI 10802:2013 (App.A Punto A.2) + UNI EN 12457-2:2004 + EPA 3005A 1992 + EPA 6020B 2014
Arsenico in eluato da test di cessione	mg/l	0,007	± 0.004		0.2	0.005	0.000	UNI 10802:2013 (App.A Punto A.2) + UNI EN 12457-2:2004 + EPA 3005A 1992 + EPA 6020B 2014
Bario in eluato da test di cessione	mg/l	0,40	± 0.24		10	0.1	0.001	UNI 10802:2013 (App.A Punto A.2) + UNI EN 12457-2:2004 + EPA 3005A 1992 + EPA 6020B 2014
Cadmio in eluato da test di cessione	mg/l	0,00006			0.1	0.000	0.000	UNI 10802:2013 (App.A Punto A.2) + UNI EN 12457-2:2004 + EPA 3005A 1992 + EPA 6020B 2014
Cromo totale in eluato da test di cessione	mg/l	0,004			1	0.005	0.000	UNI 10802:2013 (App.A Punto A.2) + UNI EN 12457-2:2004 + EPA 3005A 1992 + EPA 6020B 2014
Mercurio in eluato da test di cessione	mg/l	< 0,00005			0.02	0.000	0.000	UNI 10802:2013 (App.A Punto A.2) + UNI EN 12457-2:2004 + EPA 3005A 1992 + EPA 6020B 2014

Documento con firma digitale avanzata ai sensi della normativa vigente.

Segue rapporto di prova 21LA23969 del 14/06/2021

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Prova	U.d.M.	Risultato	Incertezza	Limite di legge		LoQ	LoD	Metodo
				Inf.	Sup.			
Molibdeno in eluato da test di cessione	mg/l	0,0008		1		0.005	0.0005	UNI 10802:2013 (App.A Punto A.2) + UNI EN 12457-2:2004 + EPA 3005A 1992 + EPA 6020B 2014
Nichel in eluato da test di cessione	mg/l	0,003		1		0.004	0.0002	UNI 10802:2013 (App.A Punto A.2) + UNI EN 12457-2:2004 + EPA 3005A 1992 + EPA 6020B 2014
Piombo in eluato da test di cessione	mg/l	0,005		1		0.005	0.0001	UNI 10802:2013 (App.A Punto A.2) + UNI EN 12457-2:2004 + EPA 3005A 1992 + EPA 6020B 2014
Rame in eluato da test di cessione	mg/l	0,006		5		0.02	0.005	UNI 10802:2013 (App.A Punto A.2) + UNI EN 12457-2:2004 + EPA 3005A 1992 + EPA 6020B 2014
Selenio in eluato da test di cessione	mg/l	< 0,005		0.05		0.005		UNI 10802:2013 (App.A Punto A.2) + UNI EN 12457-2:2004 + EPA 3005A 1992 + EPA 6020B 2014
Zinco in eluato da test di cessione	mg/l	0,03		5		0.25	0.02	UNI 10802:2013 (App.A Punto A.2) + UNI EN 12457-2:2004 + EPA 3005A 1992 + EPA 6020B 2014

Fine Rapporto di prova

La riga contrassegnata da asterisco (*) indica che la prova non è accreditata da Accredia.

Le analisi, se non specificato altrimenti sono da considerarsi effettuate in unica replica sul campione tal quale.

Il laboratorio declina la propria responsabilità sui risultati calcolati considerando i dati di campionamento forniti dal Cliente stesso.

 L'incertezza estesa è espressa come incertezza tipo composta moltiplicata per il fattore di copertura minimo $k=2$ che corrisponde ad un livello di fiducia del 95% circa.

La responsabilità del corretto e idoneo campionamento è a carico del Cliente.

I limiti in rosso si riferiscono a risultati che, nel campione analizzato, risultano essere non conformi rispetto ai limiti stessi.

La determinazione della conformità del campione rispetto a valori di riferimento, se presenti, viene eseguita senza tenere in considerazione l'incertezza, i recuperi e applicando il criterio del lower bound per le sommatorie.

I recuperi, se non diversamente specificato, sono conformi a quanto prescritto dal metodo, se previsti.

I dati ottenuti in fase di validazione sono a disposizione del cliente presso il laboratorio.

LoQ (limite di quantificazione), a fianco, se diverso è riportato il valore di LoD (limite di rilevabilità); il risultato preceduto dal simbolo "<" indica un valore inferiore a LoQ, se presenti LoD e LoQ, viene indicato il valore inferiore a LoD. I valori compresi tra LoD e LoQ sono indicativi e non associati all'incertezza.

I risultati contenuti nel presente Rapporto di Prova sono riferiti esclusivamente ai campioni analizzati.

Il presente Rapporto di Prova non può essere riprodotto parzialmente ma solo nella sua forma completa, salvo autorizzazione scritta del Laboratorio.

OPINIONI E INTERPRETAZIONI NON OGGETTO DELL'ACCREDITAMENTO ACCREDIA :

Osservazioni in base al DLgs 36/2003 come modificato dal Dlgs 3 settembre 2020, n. 121.

Viste le analisi effettuate si ritiene che il rifiuto individuato dal Cliente con codice C.E.R. 17 05 04 terra e rocce, diverse da quelle di cui alla voce 17 05 03 presenti valori

Conformi ai limiti dell'All. 4 Paragrafo 2 - Impianti di discarica per rifiuti non pericolosi

 Il Responsabile del Laboratorio
 Dr. Andrea Fontana
 Chimico
 Ordine dei Chimici del Piemonte e Valle d'Aosta
 Sigillo n.260

Allegato 4)

Schede tecniche prodotti Regenesi



TECNOLOGIE DI BONIFICA E MONITORAGGIO

Via Segrino, 6 – 20098 Sesto Ult. Di S. Giuliano Mil.se (MI) Tel. 02/9880762 Fax 02/98281628
Corte degli Arrotini, 1 – 28100 Novara Tel. 0321/499488 Fax 0321/520037

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name or designation of the mixture	PetroFix Electron Acceptor Blend
Registration number	-
Synonyms	None.
Issue date	15-August-2018
Version number	01
Revision date	-
Supersedes date	-

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses	Remediation of soils and groundwater.
Uses advised against	None known.

1.3. Details of the supplier of the safety data sheet

Company name	RegenesiS LTD
Address	Cambridge House Henry Street Bath, Somerset BA1 1BT United Kingdom
General information	+44 (0) 1225 618161
E-mail	CustomerService@regenesiS.com

1.4. Emergency telephone number

General in EU	112 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
CHEMTREC	For Dangerous Goods Incidents ONLY (spill, leak, fire, exposure or accident), call CHEMTREC 24/7 at:
International	(+1)-703-527-3887
USA, Canada, Mexico	(+1)-800-424-9300

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Regulation (EC) No 1272/2008 as amended

Health hazards		
Serious eye damage/eye irritation	Category 2	H319 - Causes serious eye irritation.

Hazard summary Causes serious eye irritation. Exposure to powder or dusts may be irritating to eyes, nose and throat.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Contains: Ammonium sulfate

Hazard pictograms



Signal word Warning

Hazard statements

H319 Causes serious eye irritation.

Precautionary statements

Prevention

P264 Wash thoroughly after handling.
P280 Wear eye protection/face protection.

Response

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Storage

Not assigned.

Disposal

Not assigned.

Supplemental label information None.

2.3. Other hazards This mixture does not contain substances assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Ammonium sulfate	40 - 60	7783-20-2 231-984-1	-	-	
Classification:	-				
Sodium nitrate	40 - 60	7631-99-4 231-554-3	-	-	
Classification:	Ox. Sol. 3;H272, Eye Irrit. 2;H319				

Composition comments The full text for all H-statements is displayed in section 16.
All concentrations are in percent by weight unless otherwise indicated.

SECTION 4: First aid measures

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

4.1. Description of first aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists.
Eye contact Do not rub eyes. Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
Ingestion Rinse mouth. Get medical attention if symptoms occur.

4.2. Most important symptoms and effects, both acute and delayed Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Dusts may irritate the respiratory tract, skin and eyes.

4.3. Indication of any immediate medical attention and special treatment needed Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

SECTION 5: Firefighting measures

General fire hazards Material will not burn.

5.1. Extinguishing media

Suitable extinguishing media Use extinguishing agent suitable for type of surrounding fire.

Unsuitable extinguishing media None known.

5.2. Special hazards arising from the substance or mixture During fire, gases hazardous to health may be formed. Combustion products may include: nitrogen oxides, sulfur oxides, ammonia.

5.3. Advice for firefighters

Special protective equipment for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Special fire fighting procedures Use water spray to cool unopened containers.

Specific methods Use standard firefighting procedures and consider the hazards of other involved materials.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained.

For emergency responders Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.

6.2. Environmental precautions Avoid discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up Avoid the generation of dusts during clean-up. Collect dust using a vacuum cleaner equipped with HEPA filter. Stop the flow of material, if this is without risk.

Large Spills: Wet down with water and dike for later disposal. Absorb in vermiculite, dry sand or earth and place into containers. Shovel the material into waste container. Following product recovery, flush area with water.

Small Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use.

6.4. Reference to other sections For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage

7.1. Precautions for safe handling Minimise dust generation and accumulation. Provide appropriate exhaust ventilation at places where dust is formed. Avoid contact with eyes. Avoid prolonged exposure. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities Store in tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see section 10 of the SDS).

7.3. Specific end use(s) Remediation of soils and groundwater.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits No exposure limits noted for ingredient(s).

Biological limit values No biological exposure limits noted for the ingredient(s).

Recommended monitoring procedures Follow standard monitoring procedures.

Derived no effect levels (DNELs) Not available.

Predicted no effect concentrations (PNECs) Not available.

8.2. Exposure controls

Appropriate engineering controls Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. If engineering measures are not sufficient to maintain concentrations of dust particulates below the OEL (occupational exposure limit), suitable respiratory protection must be worn. If material is ground, cut, or used in any operation which may generate dusts, use appropriate local exhaust ventilation to keep exposures below the recommended exposure limits. Provide eyewash station.

Individual protection measures, such as personal protective equipment

General information Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

Eye/face protection Unvented, tight fitting goggles should be worn in dusty areas.

Skin protection

- Hand protection Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.

- Other Wear suitable protective clothing.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment. Wear a CEN approved respirator, with appropriate cartridge or canister, suitable for airborne concentration levels present. Appropriate respirator selection should be made by a qualified professional. Recommended use: Wear respirator with dust filter.

Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
Hygiene measures	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.
Environmental exposure controls	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. Fume scrubbers, filters or engineering modifications to the process equipment may be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state	Solid.
Form	Powder.
Colour	White.
Odour	Not available.
Odour threshold	Not available.
pH	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	This material will not burn.

Upper/lower flammability or explosive limits

Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Vapour pressure	Not available.
Vapour density	Not available.
Relative density	Not available.
Solubility(ies)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.

9.2. Other information No relevant additional information available.

SECTION 10: Stability and reactivity

10.1. Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
10.2. Chemical stability	Material is stable under normal conditions.
10.3. Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
10.4. Conditions to avoid	Contact with incompatible materials. Heat.
10.5. Incompatible materials	Strong reducing agents. Strong acids.
10.6. Hazardous decomposition products	No hazardous decomposition products are known.

SECTION 11: Toxicological information

General information	Occupational exposure to the substance or mixture may cause adverse effects.
Information on likely routes of exposure	
Inhalation	Dust may irritate respiratory system. Prolonged inhalation may be harmful.
Skin contact	Dust or powder may irritate the skin.
Eye contact	Causes serious eye irritation.

Ingestion	May cause discomfort if swallowed.
Symptoms	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Dusts may irritate the respiratory tract, skin and eyes.
11.1. Information on toxicological effects	
Acute toxicity	Not expected to be acutely toxic.
Skin corrosion/irritation	Due to partial or complete lack of data the classification is not possible.
Serious eye damage/eye irritation	Causes serious eye irritation.
Respiratory sensitisation	Due to partial or complete lack of data the classification is not possible.
Skin sensitisation	Due to partial or complete lack of data the classification is not possible.
Germ cell mutagenicity	Due to partial or complete lack of data the classification is not possible.
Carcinogenicity	Due to partial or complete lack of data the classification is not possible.
Reproductive toxicity	Due to partial or complete lack of data the classification is not possible.
Specific target organ toxicity - single exposure	Due to partial or complete lack of data the classification is not possible.
Specific target organ toxicity - repeated exposure	Due to partial or complete lack of data the classification is not possible.
Aspiration hazard	Due to partial or complete lack of data the classification is not possible.
Mixture versus substance information	No information available.
Other information	Nitrate poisoning resulting in methemoglobinemia manifested as cyanosis is rare, but possible for people with specific susceptibility traits.

SECTION 12: Ecological information

12.1. Toxicity	Due to partial or complete lack of data the classification for hazardous to the aquatic environment, is not possible.
12.2. Persistence and degradability	The product solely consists of inorganic compounds which are not biodegradable.
12.3. Bioaccumulative potential	No data available.
Partition coefficient n-octanol/water (log Kow)	Not available.
Bioconcentration factor (BCF)	Not available.
12.4. Mobility in soil	No data available.
12.5. Results of PBT and vPvB assessment	This mixture does not contain substances assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII.
12.6. Other adverse effects	None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods	
Residual waste	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner.
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.
EU waste code	The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Disposal methods/information	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.
Special precautions	Dispose in accordance with all applicable regulations.

SECTION 14: Transport information

ADR

14.1. - 14.6.: Not regulated as dangerous goods.

RID

14.1. - 14.6.: Not regulated as dangerous goods.

ADN

14.1. - 14.6.: Not regulated as dangerous goods.

IATA

14.1. - 14.6.: Not regulated as dangerous goods.

IMDG

14.1. - 14.6.: Not regulated as dangerous goods.

14.7. Transport in bulk Not applicable.
according to Annex II of
MARPOL 73/78 and the IBC
Code

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended

Not listed.

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended

Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended

Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA

Not listed.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended

Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Not listed.

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.

Not listed.

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

Not listed.

Other regulations

The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.

National regulations

Follow national regulation for work with chemical agents in accordance with Directive 98/24/EC, as amended.

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations

ADN: European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways.
ADR: European Agreement Concerning the International Carriage of Dangerous Goods by Road.
CAS: Chemical Abstract Service.
CEN: European Committee for Standardization (Comité Européen de Normalisation).
ECHA: European Chemical Agency.
IATA: International Air Transport Association.
IBC: Intermediate Bulk Container.
IMDG: International Maritime Dangerous Goods.
MARPOL: International Convention for the Prevention of Pollution from Ships.
PBT: Persistent, bioaccumulative, toxic.
RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.
vPvB: very Persistent, very Bioaccumulative.

References

ECHA registered substances database
IARC: International Agency for Research on Cancer.

Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

Full text of any H-statements not written out in full under Sections 2 to 15

H272 May intensify fire; oxidiser.
H319 Causes serious eye irritation.

Training information

Follow training instructions when handling this material.

Disclaimer

Regenesis cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Trade name or designation of the mixture	PetroFix
Registration number	01-2119488894-16-0059
Synonyms	None.
Issue date	15-February-2018
Version number	01
Revision date	-
Supersedes date	-

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses	Remediation of contaminants in soil and groundwater.
Uses advised against	None known.

1.3. Details of the supplier of the safety data sheet

Company name	RegenesiS Ltd
Address	Cambridge House Henry Street Bath, Somerset BA1 1JS United Kingdom
General information	+44 (0) 1225 618161
E-mail	CustomerService@regenesiS.com

1.4. Emergency telephone number

General in EU	112 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
CHEMTREC	For Dangerous Goods Incidents ONLY (spill, leak, fire, exposure or accident), call CHEMTREC 24/7 at:
International	(+1)-703-527-3887
USA, Canada, Mexico	(+1)-800-424-9300

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture**

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Regulation (EC) No 1272/2008 as amended

This mixture does not meet the criteria for classification according to Regulation (EC) 1272/2008 as amended.

Hazard summary	Not classified for health hazards. However, occupational exposure to the mixture or substance(s) may cause adverse health effects.
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2.2. Label elements**Label according to Regulation (EC) No. 1272/2008 as amended**

Contains:	Activated carbon <10 µm, Calcium sulfate dihydrate
Hazard pictograms	None.
Signal word	None.
Hazard statements	The mixture does not meet the criteria for classification.

Precautionary statements

Prevention	Observe good industrial hygiene practices.
Response	Wash hands after handling.
Storage	Store away from incompatible materials.
Disposal	Dispose of waste and residues in accordance with local authority requirements.

Supplemental label information None.

2.3. Other hazards Not a PBT or vPvB substance or mixture.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Activated carbon <10 µm	>25	7440-44-0 231-153-3	01-2119488894-16-0059	-	
Classification:	-				
Calcium sulfate dihydrate	<10	10101-41-4 231-900-3	-	-	
Classification:	-				
Additive	<2	- -	-	-	
Classification:	Eye Irrit. 2;H319				

Composition comments The full text for all H-statements is displayed in section 16.
All concentrations are in percent by weight unless otherwise indicated.
Components not listed are either non-hazardous or are below reportable limits.
Chemical ingredient identity and/or concentration information withheld for some or all components present is confidential business information.

SECTION 4: First aid measures

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

4.1. Description of first aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists.
Eye contact Rinse with water. Get medical attention if irritation develops and persists.
Ingestion Rinse mouth. Get medical attention if symptoms occur.

4.2. Most important symptoms and effects, both acute and delayed Direct contact with eyes may cause temporary irritation.

4.3. Indication of any immediate medical attention and special treatment needed Treat symptomatically.

SECTION 5: Firefighting measures

General fire hazards This material will not burn until the water has evaporated. Residue can burn. When dry may form combustible dust concentrations in air.

5.1. Extinguishing media

Suitable extinguishing media Water fog. Foam. Dry chemical powder. Carbon dioxide (CO₂).
Unsuitable extinguishing media None known.

5.2. Special hazards arising from the substance or mixture During fire, gases hazardous to health may be formed. Combustion products may include: carbon oxides, nitrogen oxides, sulfur oxides, calcium oxide.

5.3. Advice for firefighters

Special protective equipment for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Special fire fighting procedures Move containers from fire area if you can do so without risk.

Specific methods Use standard firefighting procedures and consider the hazards of other involved materials.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel Keep unnecessary personnel away.
For emergency responders Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.

6.2. Environmental precautions Avoid discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use.

6.4. Reference to other sections

For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid prolonged exposure. Observe good industrial hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities

Store in original tightly closed container. Store away from incompatible materials (see section 10 of the SDS).

7.3. Specific end use(s)

Remediation of contaminants in soil and groundwater.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

UK. EH40 Workplace Exposure Limits (WELs)

Components	Type	Value	Form
Activated carbon <10 µm (CAS 7440-44-0)	TWA	4 mg/m3	Respirable dust.
		10 mg/m3	Inhalable dust.
Calcium sulfate dihydrate (CAS 10101-41-4)	TWA	4 mg/m3	Respirable dust.
		10 mg/m3	Inhalable dust.

Biological limit values

No biological exposure limits noted for the ingredient(s).

Recommended monitoring procedures

Follow standard monitoring procedures.

Derived no effect levels (DNELs)

Not available.

Predicted no effect concentrations (PNECs)

Not available.

8.2. Exposure controls

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

General information

Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

Eyeface protection

Wear safety glasses with side shields (or goggles).

Skin protection

- Hand protection

Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.

- Other

Wear suitable protective clothing.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

Hygiene measures

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Environmental exposure controls

Environmental manager must be informed of all major releases.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state

Liquid.

Form	Aqueous suspension.
Colour	Not available.
Odour	Not available.
Odour threshold	Not available.
pH	8 - 10
Melting point/freezing point	Not available.
Initial boiling point and boiling range	100 °C (212 °F)
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.

Vapour pressure	Not available.
Vapour density	Not available.
Relative density	Not available.
Solubility(ies)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.

9.2. Other information No relevant additional information available.

SECTION 10: Stability and reactivity

10.1. Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
10.2. Chemical stability	Material is stable under normal conditions.
10.3. Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
10.4. Conditions to avoid	Contact with incompatible materials. Avoid drying out product. May generate combustible dust if material dries.
10.5. Incompatible materials	Strong oxidising agents. Acids.
10.6. Hazardous decomposition products	No hazardous decomposition products are known.

SECTION 11: Toxicological information

General information Occupational exposure to the substance or mixture may cause adverse effects.

Information on likely routes of exposure

Inhalation	Spray mist may irritate the respiratory system. For dry material: Dust may irritate respiratory system.
Skin contact	Prolonged or repeated exposure may cause minor irritation.
Eye contact	Direct contact with eyes may cause temporary irritation.
Ingestion	May cause discomfort if swallowed.
Symptoms	Direct contact with eyes may cause temporary irritation.

11.1. Information on toxicological effects

Acute toxicity Not expected to be acutely toxic.

Components Species	Test Results
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Activated carbon <10 µm (CAS 7440-44-0)

Acute

Oral

LD50

Rat

> 10000 mg/kg

Skin corrosion/irritation	Due to partial or complete lack of data the classification is not possible.
Serious eye damage/eye irritation	Due to partial or complete lack of data the classification is not possible.
Respiratory sensitisation	Due to partial or complete lack of data the classification is not possible.
Skin sensitisation	Due to partial or complete lack of data the classification is not possible.
Germ cell mutagenicity	Due to partial or complete lack of data the classification is not possible.
Carcinogenicity	Due to partial or complete lack of data the classification is not possible.
Reproductive toxicity	Due to partial or complete lack of data the classification is not possible.
Specific target organ toxicity - single exposure	Due to partial or complete lack of data the classification is not possible.
Specific target organ toxicity - repeated exposure	Due to partial or complete lack of data the classification is not possible.
Aspiration hazard	Due to partial or complete lack of data the classification is not possible.
Mixture versus substance information	No information available.
Other information	Occupational exposure to the substance or mixture may cause adverse effects.

SECTION 12: Ecological information

12.1. Toxicity	Based on available data, the classification criteria are not met for hazardous to the aquatic environment.
12.2. Persistence and degradability	No data is available on the degradability of this product.
12.3. Bioaccumulative potential	No data available.
Partition coefficient n-octanol/water (log Kow)	Not available.
Bioconcentration factor (BCF)	Not available.
12.4. Mobility in soil	No data available.
12.5. Results of PBT and vPvB assessment	Not a PBT or vPvB substance or mixture.
12.6. Other adverse effects	None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods	
Residual waste	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner.
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.
EU waste code	The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Disposal methods/information	Collect and reclaim or dispose in sealed containers at licensed waste disposal site.
Special precautions	Dispose in accordance with all applicable regulations.

SECTION 14: Transport information

ADR	
14.1. - 14.6.:	Not regulated as dangerous goods.
RID	
14.1. - 14.6.:	Not regulated as dangerous goods.
ADN	
14.1. - 14.6.:	Not regulated as dangerous goods.
IATA	
14.1. - 14.6.:	Not regulated as dangerous goods.
IMDG	
14.1. - 14.6.:	Not regulated as dangerous goods.
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not established.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended

Not listed.

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended

Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended

Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA

Not listed.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended

Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Not listed.

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.

Not listed.

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

Not listed.

Other regulations

The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.

National regulations

Follow national regulation for work with chemical agents.

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations

ADN: European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways.
ADR: European Agreement Concerning the International Carriage of Dangerous Goods by Road.
CAS: Chemical Abstract Service.
CEN: European Committee for Standardization (Comité Européen de Normalisation).
DNEL: Derived No-Effect Level.
ECHA: European Chemical Agency.
IATA: International Air Transport Association.
IBC: Intermediate Bulk Container.
IMDG: International Maritime Dangerous Goods.
MARPOL: International Convention for the Prevention of Pollution from Ships.
PBT: Persistent, bioaccumulative, toxic.
PNEC: Predicted No-Effect Concentration.
RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.
TWA : Time Weighted Average.
vPvB: very Persistent, very Bioaccumulative.

References

ECHA registered substances database
IARC: International Agency for Research on Cancer.

Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

**Full text of any H-statements
not written out in full under
Sections 2 to 15**

H319 Causes serious eye irritation.

Training information

Follow training instructions when handling this material.

Disclaimer

Regenesis cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.