

SAFETY DATA SHEET

1. Identification

Product identifier	PetroFix Electron Acceptor Blend NF			
Other means of identification	None.			
Recommended use	Remediation of soils and groundwater.			
Recommended restrictions	None known.			
Manufacturer/Importer/Supplier/	/Distributor information			
Company Name	Regenesis			
Address	1011 Calle Sombra			
	San Clemente, CA 92673 USA			
General information	949-366-8000			
E-mail	CustomerService@regenesis.com			
Emergency phone number	For Hazardous Materials Incidents ONLY (spill, leak, fire, exposure or accident), call CHEMTREC 24/7 at:			
USA, Canada, Mexico	1-800-424-9300			
International	1-703-527-3887			
2. Hazard(s) identification				
Physical hazards	Not classified.			
Health hazards	Not classified.			
OSHA defined hazards	Not classified.			
Label elements				
Hazard symbol	None.			
Signal word	None.			
Hazard statement	The mixture does not meet the criteria for classification.			
Precautionary statement				
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.			
Hazard(s) not otherwise classified (HNOC)	None known.			
Supplemental information	None.			

3. Composition/information on ingredients

Mixtures

Chemical name	CAS number	%	
Ammonium sulfate	7783-20-2	40 - 60	
Potassium sulfate	7778-80-5	40 - 60	
Composition comments	All concentrations are in percent by weight unless otherwise indicated.		
4. First-aid measures			

InhalationMove to fresh air. Call a physician if symptoms develop or persist.Skin contactWash off with soap and water. Get medical attention if irritation develops and persists.Eye contactRinse with water. Get medical attention if irritation develops and persists.IngestionRinse mouth. Get medical attention if symptoms occur.

PetroFix Electron Acceptor Blend NF

Most important symptoms/effects, acute and delayed	Direct contact with eyes may cause temporary irritation.
Indication of immediate medical attention and special treatment needed	Treat symptomatically.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.
5. Fire-fighting measures	
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	None known.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed. Combustion products may include: nitrogen oxides, sulfur oxides, ammonia.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	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.
General fire hazards	This material will not burn.
6. Accidental release meas	sures
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. For personal protection, see section 8 of the SDS.

emergency procedureslevels exceeding the exposure limits. For personal protection, see section 8 of the SDS.Methods and materials for
containment and cleaning upAvoid 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. 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. For waste disposal, see section 13 of the SDS.

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

7. Handling and storage

Precautions for safe handling	Minimize dust generation and accumulation. Provide appropriate exhaust ventilation at places where dust is formed. Avoid prolonged exposure. Practice good housekeeping.				
Conditions for safe storage,	Store in tightly closed container. Store in a well-ventilated place. Store away from incompatible				
including any incompatibilities	materials (see Section 10 of the SDS).				

8. Exposure controls/personal protection

Occupational exposure limits	No exposure limits noted for ingredient(s).				
Biological limit values	No biological exposure limits noted for the ingredient(s).				
Appropriate engineering controls	Good general ventilation should be used. Ventilation rates should be matched to conditions. applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not be established, maintain airborne levels to an acceptable level.				
Individual protection measures	s, such as 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.				
Skin protection					
Othor	Wear suitable protective clothing				

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.

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.

9. Physical and chemical properties

Appearance	
Physical state	Solid.
Form	Powder.
Color	White.
Odor	Not available.
Odor threshold	Not available.
рН	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 exp	losive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
10. Stability and reactivity	,
Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Strong acids. Strong bases.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation	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 related to the Dusts may irritate the respiratory tract, skin and eyes. physical, chemical and

toxicological characteristics Information on toxicological effects

Acute toxicity Not expected to be acutely toxic

Acute toxicity	Not expected to be acutely toxic.					
Components	Species Test Results					
Potassium sulfate (CAS 7778-80-	-5)					
<u>Acute</u>						
Dermal						
LD50	Rat		> 2000 mg/day, 24 hours			
Inhalation	_					
LC50	Sprague	e-Dawley rat	3.6 mg/m3, 4 hours			
Oral	0					
LC50		e-Dawley rat	> 2000 mg/kg			
Skin corrosion/irritation	-	I skin contact may cause temporar				
Serious eye damage/eye irritation	Direct cor	tact with eyes may cause tempora	ry irritation.			
Respiratory or skin sensitization	on					
Respiratory sensitization	Not a resp	piratory sensitizer.				
Skin sensitization	-	uct is not expected to cause skin se				
Germ cell mutagenicity		No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.				
Carcinogenicity	Not classi	Not classifiable as to carcinogenicity to humans.				
IARC Monographs. Overall	Evaluation	of Carcinogenicity				
Not listed.						
NTP Report on Carcinogen Not listed.	IS					
OSHA Specifically Regulat	ed Substand	es (29 CFR 1910.1001-1053)				
Not regulated.						
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.					
Specific target organ toxicity - single exposure	Not classi	fied.				
Specific target organ toxicity -	Not classi	fied.				
repeated exposure						
Aspiration hazard	Not an as	piration hazard.				
12. Ecological informatio	n					
Ecotoxicity		The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.				
Components		Species	Test Results			
Potassium sulfate (CAS 777	8-80-5)					
Aquatic						
Algae	EC50	Chlorella vulgaris	2700 mg/l, 18 days			
Crustacea	LC50	Daphnia magna	720 mg/l, 48 hours			
Fish	LC50 Lepomis macrochirus 2550 mg/l, 96 hours					
		Pimephales promelas	680 mg/l, 96 hours			
Persistence and degradability	The produ	ict solely consists of inorganic com	pounds which are not biodegradable.			
Discourse letters and sufficient	Na data -	vailable				

Persistence and degradability	The product solely consists of inorganic compounds which are not biodegradable.
Bioaccumulative potential	No data available.
Mobility in soil	No data available.
Other adverse effects	None known.

13. Disposal considerations

Disposal instructions

Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

Local disposal regulations	Dispose in accordance with	n all applicable regul	lations		
Hazardous waste code	Dispose in accordance with all applicable regulations. The waste code should be assigned in discussion between the user, the producer and the waste				
Waste from residues / unused products	disposal company. 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 (see: Disposal instructions).				
Contaminated packaging	Since emptied containers n		esidue, follow label warnings even after container is an approved waste handling site for recycling or		
14. Transport information					
DOT					
Not regulated as dangerous g	oods.				
IATA Not regulated as dangerous g	oods				
IMDG	0003.				
Not regulated as dangerous g	oods.				
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.				
15. Regulatory information	ı				
US federal regulations	This product is not known t Communication Standard, 3		Chemical" as defined by the OSHA Hazard		
TSCA Section 12(b) Export I	Notification (40 CFR 707, Second	ubpt. D)			
Not regulated. CERCLA Hazardous Substa	nce List (40 CFR 302.4)				
Not listed. SARA 304 Emergency releas					
Not regulated.					
OSHA Specifically Regulate Not regulated.	d Substances (29 CFR 1910	0.1001-1053)			
Superfund Amendments and Re	authorization Act of 1986 (SARA)			
SARA 302 Extremely hazard	•				
Not listed.					
SARA 311/312 Hazardous chemical	No				
SARA 313 (TRI reporting)					
Chemical name		AS number	% by wt.		
Ammonium sulfate	7	7783-20-2	40 - 60		
Other federal regulations					
Clean Air Act (CAA) Section Not regulated.	112 Hazardous Air Polluta	nts (HAPs) List			
Clean Air Act (CAA) Section	112(r) Accidental Release	Prevention (40 CFI	R 68.130)		
Not regulated.	Not regulated				
Safe Drinking Water Act (SDWA)	Not regulated.				
US state regulations					
US. Massachusetts RTK - Si					
Ammonium sulfate (CAS US. New Jersey Worker and		v Act			
Not listed. US. Pennsylvania Worker ar	nd Community Right-to-Kno	ow Law			
Ammonium sulfate (CAS US. Rhode Island RTK					
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Ammonium sulfate (CAS 7783-20-2)

California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 2016 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes
** ** * * * * * * * * *		

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date	07-September-2018
Revision date	-
Version #	01
HMIS® ratings	Health: 1 Flammability: 0 Physical hazard: 0
NFPA ratings	

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.