

SAFETY DATA SHEET

1. Identification

Product identifieration PetroFix Electron Acceptor Blend Other means of identification None. Recommended uses Revention of solis and groundwater. Recommended uses None known. Company Name Regenesis Address Regenesis Address Address Address Address General information 949-368-8000 E-mail CustomerService@regenesis.com Femail CustomerService@regenesis.com USA, Canada, Mexico 1-800-424-9300 Internation 1-800-424-9300 Internation 1-800-424-9300 Internation 1-800-424-9300 Internation 1-800-424-9300 Internation 1-800-424-9300 Internation Notelassified. Stagradysidentification Vaciossified. Physici hazards Not classified. Istagradysindo None. Istagradysindo None. Istagradysindo None. Istagradysindo Sicreavertantion. Prevention Sicr	1. Idontinoution		
Recommended use Recommended use Recommended restrictions None known. Manufacturer/importer/Suppler/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 Internationa 1-703-527-3887 CHazard(s) identification Physical hazards Not classified. Health hazards Serious eye damage/eye irritation Category 2B OSHA defined hazards Not classified. Label elements Hazard symbol None. Signal word Causes eye irritation. Precautionary statement Frevention Hine eyes: Rines cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Storage Disposal Dispose of waste and residues in accordance with local authority requirements. Hazard(s) not otherwise	Product identifier	PetroFix Electron Acceptor Blend	
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Hazard(s) not otherwise None known. classified (HNOC)	Storage	Store away from incompatible materials.	
classified (HNOC)	Disposal	Dispose of waste and residues in accordance with local authority requirements.	
		None known.	
		None.	

3. Composition/information on ingredients

Mixtures

Chemical name	CAS number	%
Ammonium sulfate	7783-20-2	40 - 60
Sodium nitrate	7631-99-4	40 - 60

Composition comments

All concentrations are in percent by weight unless otherwise indicated.

4. 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.
Most important symptoms/effects, acute and delayed	Irritation of eyes. Exposed individuals may experience eye tearing, redness, and discomfort. Dusts may irritate the respiratory tract, skin and eyes.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
5. Fire-fighting measures	
5. Fire-fighting measures Suitable extinguishing media	Use extinguishing agent suitable for type of surrounding fire.
	Use extinguishing agent suitable for type of surrounding fire. None known.
Suitable extinguishing media Unsuitable extinguishing	
Suitable extinguishing media Unsuitable extinguishing media Specific hazards arising from	None known. During fire, gases hazardous to health may be formed. Combustion products may include:
Suitable extinguishing media Unsuitable extinguishing media Specific hazards arising from the chemical Special protective equipment	None known. During fire, gases hazardous to health may be formed. Combustion products may include: nitrogen oxides, sulfur oxides, ammonia.
Suitable extinguishing media Unsuitable extinguishing media Specific hazards arising from the chemical Special protective equipment and precautions for firefighters Fire fighting	None known. During fire, gases hazardous to health may be formed. Combustion products may include: nitrogen oxides, sulfur oxides, ammonia. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

General fire hazards

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	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 personal protection, see section 8 of the SDS.	
Methods and materials 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. 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 contact with eyes. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.	
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).	
8. Exposure controls/personal protection		

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

Material will not burn.

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 Occupational Exposure Limit (OEL), 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		
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		
Other	Wear suitable protective clothing.	
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment. Wear NIOSH approved respirator appropriate for airborne exposure at the point of use. 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.	
General hygiene considerations	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

AppearancePhysical stateSolid.FormPowder.		
Form Powder.		
Color White.		
Odor Not available.		
Odor threshold Not available.		
pH Not available.		
Melting point/freezing point Not available.		
Initial boiling point and boiling Not available. range		
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. (%)		
Vapor pressure Not available.		
Vapor density Not available.		
Relative density Not available.		
Solubility(ies)		
Solubility (water) Not available.		
Partition coefficientNot available.(n-octanol/water)		
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. Heat.
Incompatible materials	Strong reducing agents. Strong acids.
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	Dust or powder may irritate the skin.
Eye contact	Causes eye irritation.
Ingestion	May cause discomfort if swallowed.
Symptoms related to the physical, chemical and toxicological characteristics	Irritation of eyes. Exposed individuals may experience eye tearing, redness, and discomfort. Dusts may irritate the respiratory tract, skin and eyes.
Information on toxicological effe	ects
Acute toxicity	Not expected to be acutely toxic.
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.
Serious eye damage/eye irritation	Causes eye irritation.
Respiratory or skin sensitization	1
Respiratory sensitization	Not a respiratory sensitizer.
Skin sensitization	This product is not expected to cause skin sensitization.
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity	Not classifiable as to carcinogenicity to humans.
Not listed. NTP Report on Carcinogens Not listed.	Evaluation of Carcinogenicity d Substances (29 CFR 1910.1001-1053)
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.
Specific target organ toxicity - single exposure	Not classified.
Specific target organ toxicity - repeated exposure	Not classified.
Aspiration hazard	Not an aspiration hazard.
Further information	Nitrate poisoning resulting in methemoglobinemia manifested as cyanosis is rare, but possible for people with specific susceptibility traits.
12. Ecological information	1
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.
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. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	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 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.

14. Transport information

DOT

Not regulated as dangerous goods.

ΙΑΤΑ

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

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

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15. Regulatory informatio	n	
US federal regulations	This product is a "Hazardous Chemical" as Standard, 29 CFR 1910.1200.	defined by the OSHA Hazard Communication
TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)		
Not regulated.		
CERCLA Hazardous Subst	ance List (40 CFR 302.4)	
Not listed.		
SARA 304 Emergency relea	ise notification	
Not regulated.	ad Substances (20 CEB 4040 4004 4052)	
Not regulated.	ed Substances (29 CFR 1910.1001-1053)	
0	equitherization Act of 1096 (SADA)	
Superrund Amendments and R SARA 302 Extremely hazar	eauthorization Act of 1986 (SARA)	
Not listed.		
SARA 311/312 Hazardous	Yes	
chemical	165	
Classified hazard	Serious eye damage or eye irritation	
categories	, , , ,	
SARA 313 (TRI reporting)		
Chemical name	CAS number	% by wt.
Ammonium sulfate	7783-20-2	40 - 60
Sodium nitrate	7631-99-4	40 - 60
Other federal regulations		
Clean Air Act (CAA) Sectio	n 112 Hazardous Air Pollutants (HAPs) List	t
Not regulated.		
	n 112(r) Accidental Release Prevention (40	CFR 68.130)
Not regulated.		
Safe Drinking Water Act (SDWA)	Not regulated.	
US state regulations		

US. Massachusetts RTK - Substance List

Ammonium sulfate (CAS 7783-20-2) Sodium nitrate (CAS 7631-99-4)

US. New Jersey Worker and Community Right-to-Know Act

Sodium nitrate (CAS 7631-99-4)

US. Pennsylvania Worker and Community Right-to-Know Law

Ammonium sulfate (CAS 7783-20-2) Sodium nitrate (CAS 7631-99-4)

US. Rhode Island RTK

Ammonium sulfate (CAS 7783-20-2) Sodium nitrate (CAS 7631-99-4)

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 "Voo" indicatoo this product	complice with the inventory requirements administered by the apverping country(a)	

*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	15-August-2018
Revision date	-
Version #	01
HMIS® ratings	Health: 1 Flammability: 0 Physical hazard: 0
NFPA ratings	

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.