Issue date: 02-April-2015 Revision date: 15-July-2022 Supersedes date: 02-April-2015 Version number: 02



SAFETY DATA SHEET

1. Identification

Product identifier RegenOx® Part B

Other means of identification None.

Recommended use of the chemical and restrictions on use

Recommended use Soil and Groundwater Remediation.

Restrictions on use None known.

Details of manufacturer or importer

Company nameREGENESISAddress1011 Calle Sombra

San Clemente, CA 92673

USA

General information 949-366-8000

E-mail CustomerService@regenesis.com

Emergency phone number For Dangerous Goods Incidents ONLY (spill, leak, fire, exposure or accident), call

CHEMTREC 24/7 at:

 Australia
 0011-1-703-527-3887

 International
 +1 703-741-5970

2. Hazard(s) identification

Classification of the hazardous chemical

Physical hazards Not classified.

Health hazards Skin corrosion/irritation Category 2

Serious eye damage/eye irritation Category 2A

Label elements, including precautionary statements

Hazard symbol(s)



Exclamation mark

Signal word Warning

Hazard statement(s) Causes skin irritation. Causes serious eye irritation.

Precautionary statement(s)

Prevention Wash thoroughly after handling. Wear protective gloves/eye protection/face protection.

Response IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse 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 Store away from incompatible materials.

Disposal Dispose of waste and residues in accordance with local authority requirements.

Supplemental information None.

Other hazards which do not None

result in classification

None known.

3. Composition/information on ingredients

Mixture

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Identity of chemical ingredients	CAS number and other unique identifiers	Concentration of ingredients
Silicic acid, sodium salt, sodium silicate	1344-09-8	25-40
Silicon dioxide (amorphous silica gel)	63231-67-4	<10
Ferrous sulfate	7720-78-7	2-5

Composition comments

All concentrations are in percent by weight unless otherwise indicated.

4. First-aid measures

Description of necessary first aid measures

Inhalation Move to fresh air. Keep victim at rest in a position comfortable for breathing. Call a physician if

symptoms develop or persist.

Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get Skin contact

medical advice/attention.

Eye contact 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. Never give anything by mouth to a victim who is unconscious or is having

convulsions. Get medical attention if symptoms occur.

Personal protection for first-aid responders

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.

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred Symptoms caused by exposure

vision. Skin irritation. May cause redness and pain. Spray mist may irritate the respiratory system.

Symptoms may include coughing, difficulty breathing and shortness of breath.

Medical attention and special treatment

Provide general supportive measures and treat symptomatically.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing

media

Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing

media

Specific hazards arising from

the chemical

During fire, gases hazardous to health may be formed. Combustion products may include: silicon oxides, metal oxides, sulfur oxides.

Special protective equipment and precautions for fire

fighters

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.

Hazchem code

None.

None known.

General fire hazards

No unusual fire or explosion hazards noted.

Specific methods

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

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency

personnel

Wear appropriate personal protective equipment.

For emergency responders

Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the

SDS.

Environmental precautions

Methods and materials for containment and cleaning up Avoid discharge into drains, water courses or onto the ground.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. 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. For waste disposal, see section 13 of the SDS.

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7. Handling and storage

Precautions for safe handling Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Provide adequate

ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene

practices.

Conditions for safe storage, including any incompatibilities Store in original tightly closed container. Store in a cool, dry, well-ventilated place. Maintain storage temperatures between 50°F to 140°F (10°C to 60°C). Store away from incompatible materials (see Section 10 of the SDS). Recommended storage containers: steel or plastic. Do not use containers made of aluminum, fiberglass, copper, brass, zinc or galvanized containers.

8. Exposure controls and personal protection

Components	Туре	Value	Form
Ferrous sulfate (CAS 7720-78-7)	TWA	1 mg/m3	
Silicon dioxide (amorphous silica gel) (CAS 63231-67-4)	TWA	2 mg/m3	Respirable dust.
US. ACGIH Threshold Limit	Values		
Components	Туре	Value	
Ferrous sulfate (CAS 7720-78-7)	TWA	1 mg/m3	
UK. EH40 Workplace Expos	ure Limits (WELs)		
Components	Type	Value	Form
Ferrous sulfate (CAS 7720-78-7)	STEL	2 mg/m3	
	TWA	1 mg/m3	
Silicon dioxide (amorphous silica gel) (CAS 63231-67-4)	TWA	6 mg/m3	Inhalable dust.
,		2.4 mg/m3	Respirable dust.
Germany. DFG MAK List (ac in the Work Area (DFG)	lvisory OELs). Commission for the	Investigation of Health Hazard	ds of Chemical Compoun
Components	Туре	Value	Form
Silicon dioxide (amorphous silica gel) (CAS 63231-67-4)	TWA	4 mg/m3	Inhalable fraction.
logical limit values	No biological exposure limits noted	for the ingredient(s).	
propriate engineering trols	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. Eye wash facilities and emergency shower must be available when handling this product.		

Eye/face protection	Chemical goggles are recommended. Wear a face shield if there is a risk of splashing.
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Skin protection

Wear appropriate chemical resistant gloves. Hand protection Wear appropriate chemical resistant clothing. Other

If engineering controls do not maintain airborne concentrations below recommended exposure Respiratory protection

limits (where applicable) or to an acceptable level (in countries where exposure limits have not

been established), an approved respirator must be worn.

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.

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9. Physical and chemical properties

Appearance

Physical state Liquid.
Form Liquid.

Colour Green to dark blue.

Odour Odourless.
Odour threshold Not available.

pH 11 (10% solution/water)

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) Not applicable.

Upper/lower flammability or explosive limits

Explosive limit - lower (%) Not available.

Explosive limit - upper Not available.

(%)

Vapour pressureNot available.Vapour densityNot available.Relative density1.2 - 1.4

Solubility(ies)

Solubility (water) Miscible.

Partition coefficient No data available.

(n-octanol/water)

Auto-ignition temperatureNot available.Decomposition temperatureNot available.Viscosity< 10,000cP</th>Other physical and chemical parameters

Explosive properties

Oxidising properties

Not explosive.

Not oxidising.

10. Stability and reactivity

ReactivityThe 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 Hydrogen fluoride. Fluorine. Oxygen difluoride. Chlorine trifluoride. Strong acids. Strong bases.

Oxidizers. Aluminum metal. Copper. Brass. Zinc. Galvanized metals.

Hazardous decomposition

products

No hazardous decomposition products are known.

11. Toxicological information

Information on possible routes of exposure

Inhalation Prolonged inhalation may be harmful. Spray mists may cause respiratory tract irritation.

Skin contact Causes skin irritation.

Eye contact Causes serious eye irritation.

Ingestion Ingestion may cause irritation and malaise.

Symptoms related to exposure Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred

vision. Skin irritation. May cause redness and pain. Spray mist may irritate the respiratory system.

Symptoms may include coughing, difficulty breathing and shortness of breath.

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Not expected to be acutely toxic. **Acute toxicity**

Components **Test Results Species**

Silicic acid, sodium salt, sodium silicate (CAS 1344-09-8)

Acute Dermal

LD50 Rat > 5000 mg/kg, 24 Hours

Inhalation

Vapour

LC50 Rat > 2.06 mg/l, 4 Hours

Oral

LD50 Rat 2000 - 2500 mg/kg

> 3400 mg/kg 3200 mg/kg

Causes skin irritation. Skin corrosion/irritation

Causes serious eye irritation. Serious eye damage/irritation

Respiratory or skin sensitisation

Respiratory sensitisation Not a respiratory sensitiser.

Skin sensitisation This product is not expected to cause skin sensitisation.

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Not classifiable as to carcinogenicity to humans. Carcinogenicity

IARC Monographs. Overall Evaluation of Carcinogenicity

Silicon dioxide (amorphous silica gel) (CAS 63231-67-4) 3 Not classifiable as to carcinogenicity to humans.

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.

Silicic acid, sodium salt, sodium silicate (CAS 1344-09-8) > 159 mg/kg

Result: NOAEL Species: Rat

Aspiration hazard Not an aspiration hazard.

Chronic effects Prolonged inhalation may be harmful.

12. Ecological information

The product is not classified as environmentally hazardous. However, this does not exclude the **Ecotoxicity**

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components **Species Test Results**

Silicic acid, sodium salt, sodium silicate (CAS 1344-09-8)

Aquatic

Acute

Crustacea EC50 1700 mg/l, 48 hours Daphnia magna Fish LC50 Danio rerio 1108 mg/l, 96 hours

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential No data available. No data available. Partition coefficient

n-octanol / water (log Kow)

Mobility in soil The product is water soluble and may spread in water systems.

Other adverse effects None known.

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13. Disposal considerations

Disposal methods 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.

Residual waste Dispose 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.

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

14. Transport information

ADG

Not regulated as dangerous goods.

RID

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not established.

15. Regulatory information

Safety, health and environmental regulations

National regulations This Safety Data Sheet was prepared in accordance with Australia Model Code of Practice for the

preparation of Safety Data Sheets for Hazardous Chemicals.

Australia Medicines & Poisons Appendix A

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix B

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix D

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix E

Silicic acid, sodium salt, sodium silicate (CAS 1344-09-8)

Australia Medicines & Poisons Appendix F

Silicic acid, sodium salt, sodium silicate (CAS 1344-09-8)

Australia Medicines & Poisons Appendix G

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix H

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix I

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix J

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix K

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 10

Silicic acid, sodium salt, sodium silicate (CAS 1344-09-8)

Australia Medicines & Poisons Schedule 2

Ferrous sulfate (CAS 7720-78-7)

Australia Medicines & Poisons Schedule 3

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 4

Ferrous sulfate (CAS 7720-78-7)

Australia Medicines & Poisons Schedule 5

Ferrous sulfate (CAS 7720-78-7)

Silicic acid, sodium salt, sodium silicate (CAS 1344-09-8)

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Australia Medicines & Poisons Schedule 6

Ferrous sulfate (CAS 7720-78-7)

Silicic acid, sodium salt, sodium silicate (CAS 1344-09-8)

Australia Medicines & Poisons Schedule 7

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 8

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 9

Poisons schedule number not allocated.

High Volume Industrial Chemicals (HVIC)

Silicic acid, sodium salt, sodium silicate (CAS 1344-09-8) 10000 - 99999 TONNES See the regulation for additional

information.

Silicon dioxide (amorphous silica gel) (CAS 63231-67-4)

10000 - 99999 TONNES See the regulation for additional information.

Importation of Ozone Depleting Substances (Customs(Prohibited imports) Regulations 1956, Schedule 10, as amended)

National Pollutant Inventory (NPI) substance reporting list

Prohibited Carcinogenic Substances

Not regulated.

Prohibited Substances (National Model Regulation for the control of Workplace Hazardous Substances, Schedule 2 NOHSC:1005 (1994) as amended)

Not listed.

Restricted Carcinogenic Substances

Not regulated.

Restricted Importation of Organochlorine Chemicals (Customs(Prohibited Imports) Regulations 1956, Schedule 9)

International regulations

Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable.

Kyoto Protocol

Not applicable.

Montreal Protocol

Not applicable.

Basel Convention

Not applicable.

International Inventories

RegenOx® Part B

Country(s) or region	Inventory name On	inventory (yes/no)*
Australia	Australian Inventory of Industrial Chemicals (AICIS)	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 "Voc" indicates that all compo	neate of this product comply with the inventory requirements administered by the governing	a country(c)

^{*}A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

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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

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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.

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