

SAFETY DATA SHEET

1. Identification

Product identifier	Chemical Reducing Solution (CRS®)
Other means of identification	None.
Recommended use	Soil and Groundwater Remediation.
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 Dangerous Goods Incidents ONLY (spill, leak, fire, exposure or accident), call CHEMTREC 24/7 at:
USA, Canada	(+)1-800-424-9300
International	+1 703-741-5970
2. Hazard identification	
Physical hazards	Not classified.
Health 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.
Supplemental information	None.
Other hazards	None known.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Water		7732-18-5	85-92
Ferrous Gluconate		299-29-6	8-15
Composition comments	All concentrations are in percent by weight un	less otherwise indicated.	
4. First-aid measures			
Inhalation	Move to fresh air. Call a physician if symptom	s develop or persist.	
Skin contact	Remove contaminated clothing and shoes. W irritation develops and persists.	ash off with soap and water. G	Set medical attention if
Eye contact	Rinse with water. Get medical attention if irrita	ation develops and persists.	
Ingestion	Rinse mouth. Never give anything by mouth to convulsions. Do not induce vomiting without a keep head low so that stomach content doesr symptoms occur.	dvice from poison control cent	ter. If vomiting occurs,

Most important symptoms/effects, acute and delayed	May cause temporary irritation on skin or eye contact.	
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	Small fires: Dry chemical powder. Larger fires: Water spray, fog or foam.	
Unsuitable extinguishing media	None known.	
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed. Combustion products may include: carbon monoxide, carbon dixoide, iron oxides.	
Special protective equipment and precautions for firefighters	Use protective equipment appropriate for surrounding materials.	
Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk. Use water spray to keep fire-exposed containers cool.	
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.	
General fire hazards	No unusual fire or explosion hazards noted. The product itself does not burn.	
6. Accidental release measures		
Personal precautions, protective equipment and	Wear appropriate protective equipment and clothing during clean-up.	

emergency procedures	
Methods and materials for containment and cleaning up	This product is miscible in water.
оолаан алаан ал	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.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
7. Handling and storage	
Precautions for safe handling	Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Avoid breathing spray mist.

Precautions for safe handling	Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Avoid breathing spray mist. Use with adequate ventilation. Observe good industrial hygiene practices. Wear appropriate
	personal protective equipment (See Section 8).
Conditions for safe storage,	Store in original tightly closed container. Store in a cool, dry, well-ventilated place. Store away from

Store in original tightly closed container. Store in a cool, dry, well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS). Keep away from extreme heat and strong including any incompatibilities oxidizing agents.

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	Not normally needed. In case of insufficient ventilation wear suitable respiratory equipment. Eye wash fountain and emergency showers are recommended.
Individual protection measures,	such as personal protective equipment
Eye/face protection	Use safety glasses. Where contact with eyes is likely, use chemical 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. Wear respiratory protection during operations where spraying or misting occurs.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.

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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

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Liquid.
Liquid.
Dark green to black.
Odourless.
Not available.
6 - 8
Property has not been measured.
Property has not been measured.
Not flammable.
Not available.
Not applicable.
losive limits
Property has not been measured.
1 - 1.2
Miscible
No data available. Property has not been measured.
Property has not been measured.
Product can oxidize in air: iron (II) to iron (III).
Not available.
Property has not been measured.
Property has not been measured.
The product is stable and non-reactive under normal conditions of use, storage and transport.
A component of this product can oxidize in air: iron (II) to iron (III).
No dangerous reaction known under conditions of normal use.
Contact with incompatible materials. Keep from freezing.
Oxidizing agents.
No hazardous decomposition products are known.
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Information on likely routes of exposure

Inhalation	Prolonged inhalation may be harmful.
Skin contact	Prolonged or repeated skin contact may result in minor irritation.
Eye contact	Direct contact with eyes may cause temporary irritation.
Ingestion	Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics	May cause temporary irritation on skin or eye contact.
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	Direct contact with eyes may cause temporary irritation.
Respiratory or skin sensitisatior	1
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.
Carcinogenicity	Not classifiable as to carcinogenicity to humans.
Reproductive toxicity	Not classified.
Specific target organ toxicity - single exposure	Not classified.
Specific target organ toxicity - repeated exposure	Not classified.
Aspiration hazard	Not an aspiration hazard.
Chronic effects	Prolonged inhalation may be harmful.

12. Ecological information

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	Product can oxidize in air: iron (II) to iron (III).
Bioaccumulative potential	No data available.
Mobility in soil	This product is miscible in water. Expected to be highly mobile in soil.
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 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 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	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information

TDG

Not regulated as dangerous goods.

ΙΑΤΑ

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 CodeNot established.

15. Regulatory information

Canadian regulations

This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.

Controlled Drugs and Sub	ostances Act	
Not regulated.		
Export Control List (CEPA	1999, Schedule 3)	
Not listed.		
Greenhouse Gases		
Not listed.		
Precursor Control Regula	tions	
Not regulated.		
International regulations		
Stockholm Convention		
Not applicable. Rotterdam Convention		
Not applicable. Kyoto Protocol		
Not applicable. Montreal Protocol		
Not applicable. Basel Convention		
Not applicable.		
International Inventories		
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)	No
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)	No
Japan Korea	Inventory of Existing and New Chemical Substances (ENCS) Existing Chemicals List (ECL)	No Yes
Korea	Existing Chemicals List (ECL)	Yes

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

*A "Yes" indicates that all components of this product comply 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

Issue date	02-June-2022
Revision date	-
Version No.	01
List of abbreviations	CEN: European Committee for Standardization (Comité Européen de Normalisation).
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.

Yes