REGENESIS

# SAFETY DATA SHEET

## 1. Identification

Product identifier	Oxygen Release Compound Advanced (OF	RC Advanced®)
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, CHEMTREC 24/7 at:	eak, fire, exposure or accident), call
USA, Canada	1-800-424-9300	
International	+1 703-741-5970	
2. Hazard(s) identification		
Physical hazards	Oxidizing solids	Category 2
USA, Canada International 2. Hazard(s) identification	CHEMTŘEC 24/7 at: 1-800-424-9300 +1 703-741-5970	

#### Health hazards Skin corrosion/irritation Category 1 Serious eye damage/eye irritation Category 1 Specific target organ toxicity, single exposure Category 3 respiratory tract irritation Not classified.

## **OSHA** defined hazards

Label elements



Signal word	Danger
Hazard statement	May intensify fire; oxidizer. Causes severe skin burns and eye damage. Causes serious eye damage. May cause respiratory irritation.
Precautionary statement	
Prevention	Keep away from heat. Keep/Store away from clothing/combustible materials. Take any precaution to avoid mixing with combustibles. Do not breathe dust. Avoid breathing vapors. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.
Response	If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. Wash contaminated clothing before reuse. In case of fire: Use appropriate media to extinguish.
Storage	Store in a well-ventilated place. Keep container tightly closed. Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	None.

## 3. Composition/information on ingredients

Mixtures

Mixtures			
Chemical name		CAS number	%
Calcium peroxide		1305-79-9	≥ 75
Calcium hydroxide		1305-62-0	≤ 25
Dipotassium Phosphate		7758-11-4	< 5
Monopotassium Phosphate		7778-77-0	< 5
Composition comments	All concentrations are in percent by weight u	nless otherwise indicated.	
4. First-aid measures			
Inhalation	Remove victim to fresh air and keep at rest in center or doctor/physician if you feel unwell.	n a position comfortable for brea	athing. Call a poison
Skin contact	If on clothing: Rinse immediately contaminate removing clothes. Rinse skin with water/show immediately. Chemical burns must be treated reuse.	ver. Call a physician or poison o	control center
Eye contact	Do not rub eyes. Immediately flush eyes with contact lenses, if present and easy to do. Co center immediately.		
Ingestion	Call a physician or poison control center imm vomiting occurs, keep head low so that stom		
Most important symptoms/effects, acute and delayed	Burning pain and severe corrosive skin dama include stinging, tearing, redness, swelling, a blindness could result.		
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and tre immediately. While flushing, remove clothes ambulance. Continue flushing during transpo Symptoms may be delayed.	which do not adhere to affected	area. Call an
General information	Take off all contaminated clothing immediate If you feel unwell, seek medical advice (show personnel are aware of the material(s) involv contaminated clothing before reuse.	the label where possible). Ens	ure that medical
5. Fire-fighting measures			
Suitable extinguishing media	Water spray, fog (flooding amounts). Foam.	Dry chemical powder. Carbon d	ioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as th		
Specific hazards arising from the chemical	Greatly increases the burning rate of combus heated. During fire, gases hazardous to heal metal oxides.		
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full p	protective clothing must be worn	in case of fire.
Fire fighting equipment/instructions	In case of fire and/or explosion do not breath so without risk. Use water spray to cool unop		fire area if you can o
Specific methods	Cool containers exposed to flames with wate	r until well after the fire is out.	
General fire hazards	May intensify fire; oxidizer. Contact with com	bustible material may cause fire	9.
6. Accidental release meas	sures		
Personal precautions	Keep unnecessary personnel away. Keep pe	ople away from and upwind of	spill/leak Keen away

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep away from clothing and other combustible materials. Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of dust. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. 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.

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Methods and materials for containment and cleaning up	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Ventilate the contaminated area. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Minimize dust generation and accumulation. Collect dust using a vacuum cleaner equipped with HEPA filter. Wear appropriate protective equipment and clothing during clean-up. 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. Clean surface thoroughly to remove residual contamination.
Environmental precautions	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground.
7. Handling and storage	
Precautions for safe handling	Minimize dust generation and accumulation. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Keep away from heat. Provide appropriate exhaust ventilation at places where dust is formed. Take any precaution to avoid mixing with combustibles. Keep away from clothing and other combustible materials. Do not get this material in contact with eyes. Avoid breathing dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Avoid contact with water and moisture.
Conditions for safe storage, including any incompatibilities	Store locked up. Keep away from heat. Store in a cool, dry place out of direct sunlight. Store in tightly closed container. Store in a well-ventilated place. Do not store near combustible materials. Store away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure controls/personal protection

#### **Occupational exposure limits**

Components	Туре	Value	Form
Calcium hydroxide (CAS 1305-62-0)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
US. ACGIH Threshold Lim	it Values		
Components	Туре	Value	
Calcium hydroxide (CAS 1305-62-0)	TWA	5 mg/m3	
US. NIOSH: Pocket Guide	to Chemical Hazards		
Components	Туре	Value	
Calcium hydroxide (CAS 1305-62-0)	TWA	5 mg/m3	
logical limit values	No biological exposure limits noted f	or the ingredient(s).	
propriate engineering htrols	Good general ventilation should be u applicable, use process enclosures, maintain airborne levels below recon established, maintain airborne levels sufficient to maintain concentrations (OEL), suitable respiratory protectior operation which may generate dusts below the recommended exposure li	local exhaust ventilation, or oth mended exposure limits. If ex to an acceptable level. If engin of dust particulates below the must be worn. If material is go , use appropriate local exhaust	ner engineering controls to posure limits have not been neering measures are not Occupational Exposure Limi round, cut, or used in any t ventilation to keep exposur
ividual protection measures	s, such as personal protective equipm	nent	
Eye/face protection	Use dust-tight, unvented chemical sa	afety goggles when there is por	tential for eye contact.
Older markerstland			
Skin protection			
Hand protection	Recommended gloves include rubbe	er, neoprene, nitrile or viton. Fre	equent change is advisable.

Respiratory protection	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. Recommended use: Wear respirator with dust filter.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	Keep from contact with clothing and other combustible materials. Remove and wash contaminated clothing promptly. 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 to pale yellow.
Odor	Odorless.
Odor threshold	Not available.
рН	12.5 (3% suspension/water)
Melting point/freezing point	Not applicable, material is a solid.
Initial boiling point and boiling range	Not applicable, material is a solid.
Flash point	Property has not been measured.
Evaporation rate	Not available.
Flammability (solid, gas)	Oxidizer.
Upper/lower flammability or exp	losive limits
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not applicable, material is a solid.
Vapor density	Not applicable, material is a solid.
Relative density	Property has not been measured.
Solubility(ies)	
Solubility (water)	Slightly soluble
Partition coefficient (n-octanol/water)	Not applicable, product is a mixture. Not applicable, product is a mixture.
Auto-ignition temperature	Property has not been measured.
Decomposition temperature	527 °F (275 °C)
Viscosity	Not applicable, material is a solid.
Other information	
Bulk density	0.5 - 0.9 g/ml
Density	Property has not been measured.
Explosive limit	Non-explosive.
Explosive properties	Not explosive.
Kinematic viscosity	Not applicable, material is a solid.
Oxidizing properties	May intensify fire; oxidizer.
10. Stability and reactivity	
Reactivity	Greatly increases the burning rate of combustible materials.
Chemical stability	Decomposes on heating. Product may be unstable at temperatures above: 275°C/527°F.
Possibility of hazardous reactions	Reacts slowly with water.
Conditions to avoid	Moisture. Heat. Avoid temperatures exceeding the decomposition temperature. Contact with incompatible materials.
Incompatible materials	Acids. Bases. Combustible material. Reducing agents. Salts of heavy metals.

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Hazardous decomposition Oxygen. Hydrogen peroxide (H2O2). Steam. Heat. products

## 11. Toxicological information

Information on likely routes of exposure		
Inhalation	Dust may irritate respiratory system.	
Skin contact	Causes severe skin burns.	
Eye contact	Causes serious eye damage.	
Ingestion	Causes digestive tract burns.	
Symptoms related to the physical, chemical and toxicological characteristics	Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Dusts may irritate the respiratory tract, skin and eyes.	

### Information on toxicological effects

Acute toxicity	Not known.	
Components	Species	Test Results
Calcium hydroxide (CAS 1305-62-	0)	
Acute		
Dermal		
LD50	Rabbit	> 2500 mg/kg, 24 Hours
Inhalation	Det	
LC50	Rat	6.04 mg/l, 4 hours
Oral LD50	Rat	> 2000 mg/kg
		2000 mg/kg
Skin corrosion/irritation	Causes severe skin burns and eye damage.	
Serious eye damage/eye irritation	Causes serious eye damage.	
Respiratory or skin sensitization	n	
Respiratory sensitization	Not a respiratory sensitizer.	
Skin sensitization	This product is not expected to cause skin sensitiza	tion.
Germ cell mutagenicity	No data available to indicate product or any compor mutagenic or genotoxic.	nents present at greater than 0.1% are
Carcinogenicity	Not classifiable as to carcinogenicity to humans.	
IARC Monographs. Overall	Evaluation of Carcinogenicity	
Not listed.		
NTP Report on Carcinogens	5	
Not listed. OSHA Specifically Regulate	d Substances (29 CFR 1910.1001-1053)	
Not listed.		
Reproductive toxicity	This product is not expected to cause reproductive	or developmental effects.
Specific target organ toxicity - single exposure	May cause respiratory irritation.	
Specific target organ toxicity - repeated exposure	Not classified.	
Aspiration hazard	Not an aspiration hazard.	
12. Ecological information	1	
Ecotoxicity	The product is not classified as environmentally haz possibility that large or frequent spills can have a har	
Components	Species	Test Results
Calcium hydroxide (CAS 1308	5-62-0)	
Aquatic		

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Algae

EC50

Algae

184.57 mg/l, 72 hours

Persistence and degradability	Decomposes in the presence of water. The product contains inorganic compounds which are not biodegradable.
Bioaccumulative potential	The product does not contain any substances expected to be bioaccumulating.
Mobility in soil	This product has very low solubility in water and low mobility in the environment.
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.
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

DOT	
UN number	UN1457
UN proper shipping name	Calcium peroxide
Transport hazard class(es)	
Class	5.1
Subsidiary risk	-
Label(s)	5.1
Packing group	II
Environmental hazards	
Marine pollutant	No.
	Read safety instructions, SDS and emergency procedures before handling.
Special provisions	IB6, IP2, T3, TP33, W100
Packaging exceptions	152
Packaging non bulk	212
Packaging bulk	242
ΙΑΤΑ	
UN number	UN1457
UN proper shipping name	Calcium peroxide
Transport hazard class(es)	
Class	5.1
Subsidiary risk	-
Packing group	II
Environmental hazards	No.
ERG Code	5L
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
IMDG	
UN number	UN1457
UN proper shipping name	CALCIUM PEROXIDE
Transport hazard class(es)	
Class	5.1
Subsidiary risk	-
Packing group	II
Environmental hazards	
Marine pollutant	No.
EmS	F-G, S-Q
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Transport in bulk according to	Not applicable.
Annex II of MARPOL 73/78 and	
the IBC Code	

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## 15. Regulatory information

15. Regulatory information						
US federal regulations	This product is a "Hazardous Chemical" as defined by the 0 Standard, 29 CFR 1910.1200.	OSHA Hazard Communication				
TSCA Section 12(b) Exp	TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)					
Not regulated.						
	ostance List (40 CFR 302.4)					
Not listed.	lagge notification					
SARA 304 Emergency re	elease notification					
	Not regulated. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)					
Toxic Substances Control A	ct (TSCA) All components of the mixture on th "active".	e TSCA 8(b) inventory are designated				
Superfund Amendments and Re	authorization Act of 1986 (SARA)					
SARA 302 Extremely hazard						
Not listed.						
SARA 311/312 Hazardous chemical	Yes					
Classified hazard	Oxidizer (liquid, solid, or gas)					
categories	Skin corrosion or irritation					
	Serious eye damage or eye irritation Specific target organ toxicity (single or repeated exposure)					
SARA 313 (TRI reporting) Not regulated.						
Other federal regulations						
-	112 Hazardous Air Pollutants (HAPs) List					
Not regulated.						
	112(r) Accidental Release Prevention (40 CFR 68.130)					
Safe Drinking Water Act (SDWA)	Not regulated.					
US state regulations						
US. Massachusetts RTK - Su	Ibstance List					
Calcium hydroxide (CAS						
	Community Right-to-Know Act					
Calcium hydroxide (CAS Calcium peroxide (CAS 1						
US. Pennsylvania Worker an	d Community Right-to-Know Law					
Calcium hydroxide (CAS US. Rhode Island RTK	1305-62-0)					
Calcium hydroxide (CAS	1305-62-0)					
California Proposition 65						
	/ater and Toxic Enforcement Act of 1986 (Proposition 65): TI by chemicals currently listed as carcinogens or reproductive t ww.P65Warnings.ca.gov.					
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 (IECS)	C) 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 (ENC					
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Country(s) or region	Inventory name On inventory	(yes/no)*
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 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, including date of preparation or last revision

Issue date	14-February-2020
Revision date	15-July-2022
Version #	02
HMIS® ratings	Health: 3 Flammability: 0 Physical hazard: 2

**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.

Sante Fe Main Office Phone: (505) 476-3441

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

## State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

DITIONS	CON
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Operator:	OGRID:
Harvest Four Corners, LLC	373888
1755 Arroyo Dr	Action Number:
Bloomfield, NM 87413	416136
	Action Type:
	[UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS				
Created By	Condition	Condition Date		
michael.buchanan	Safety Data Sheet for ORC (Oxygen Release Compound) socks accepted for the record. App ID: 416136	12/31/2024		

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Action 416136