

SAFETY DATA SHEET

1. Identification

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Product identifier	ORC Advanced® Pellets		
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 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 identification			
Physical hazards	Oxidising solids	Category 2	
Health hazards	Skin corrosion/irritation	Category 2	
	Serious eye damage/eye irritation	Category 1	
	Specific target organ toxicity following single exposure	Category 3 respiratory tract irritation	
Label elements			
Signal word	Danger		
Hazard statement	May intensify fire; oxidiser. Causes skin irritation. Causes serious eye damage. May cause respiratory irritation.		

respiratory irritation.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep away from clothing and other combustible materials. Avoid breathing dust. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.
IF ON SKIN: Wash with plenty of water. 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 CENTRE/doctor. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. In case of fire: Use appropriate media to extinguish.
Store in a well-ventilated place. Keep container tightly closed. Store locked up. Store away from incompatible materials.
Dispose of contents/container in accordance with local/regional/national/international regulations.
None known.
None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Calcium peroxide		1305-79-9	≥65
Calcium hydroxide		1305-62-0	≤35
Dipotassium hydrogen orthophosphate		7758-11-4	<5
Potassium phosphate (monobasic)		7778-77-0	<5
Proprietary		Not available	<3
Diammonium phosphate		7783-28-0	<1
Composition comments	All concentrations are in percent by weight ur	less otherwise indicated.	
4. First-aid measures			
Inhalation	Remove victim to fresh air and keep at rest in CENTRE or doctor/physician if you feel unwe		eathing. Call a POISON
Skin contact	IF ON CLOTHING: rinse immediately contam removing clothes. Rinse skin with water/show advice/attention. Wash contaminated clothing	er. If skin irritation occurs: Ge	plenty of water before at medical
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 immediately.		
Ingestion	Never give anything by mouth to a victim who mouth. Do not induce vomiting. If vomiting oc get into the lungs. Get medical attention if syr	curs, keep head low so that s	
Most important symptoms/effects, acute and delayed	Severe eye irritation. Symptoms may include vision. Permanent eye damage including blind tract, skin and eyes. Skin irritation. May cause	dness could result. Dusts may	
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and tre Symptoms may be delayed.	at symptomatically. Keep vict	im under observation.
General information	Take off all contaminated clothing immediatel Ensure that medical personnel are aware of the protect themselves. Wash contaminated clother	he material(s) involved, and ta	
5. Fire-fighting measures			
Suitable extinguishing media	Water spray, fog (flooding amounts). Foam. D	Ory chemical powder. Carbon	dioxide (CO2).
Unsuitable extinguishing media	None known.		
Specific hazards arising from the chemical	Greatly increases the burning rate of combus heated. During fire, gases hazardous to healt metal oxides.		
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full p	rotective clothing must be wo	rn in case of fire.
Fire fighting equipment/instructions	In case of fire and/or explosion do not breather so without risk. Use water spray to cool unoper		m fire area if you can do
Specific methods	Cool containers exposed to flames with water	until well after the fire is out.	
General fire hazards	May intensify fire; oxidiser. Contact with comb	oustible material may cause fi	re.
6. Accidental release meas	sures		

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. 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.

Methods and materials for containment and cleaning up	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Collect dust using a vacuum cleaner equipped with HEPA filter. Keep combustibles (wood, paper, oil etc) away from spilled material. Ventilate the contaminated area. Stop the flow of material, if this is without risk. Absorb in vermiculite, dry sand or earth and place into containers.
	Large Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal. Shovel the material into waste container. Minimise dust generation and accumulation. Avoid the generation of dusts during clean-up. 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. Place all material into loosely covered plastic containers for later disposal. For waste disposal, see section 13 of the SDS. Wear appropriate protective equipment and clothing during clean-up.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
7. Handling and storage	
Precautions for safe handling	Minimise 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. Keep away from clothing and other combustible materials. Take any precaution to avoid mixing with combustibles. Avoid contact with water and moisture. Do not get this material in contact with eyes. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Keep away from heat. Store in a cool, dry place out of direct sunlight. Store in original 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 US. ACGIH Threshold Limit Values Components Туре Value TWA Calcium hydroxide (CAS 5 mg/m3 1305-62-0) Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2) Components Value Туре Calcium hydroxide (CAS TWA 5 mg/m3 1305-62-0) Proprietary TWA 10 mg/m3 Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) Form Components Value Type Calcium hydroxide (CAS TWA 5 mg/m3 1305-62-0) 20 mg/m3 Total dust. Proprietary STEL TWA 3 mg/m3 Respirable fraction. 10 mg/m3 Total dust. Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act) Components Type Value Calcium hydroxide (CAS TWA 5 mg/m3 1305-62-0) Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) Components Value Туре Calcium hydroxide (CAS TWA 5 mg/m3 1305-62-0)

Components	Туре	Value	Form
Calcium hydroxide (CAS 1305-62-0)	TWA	5 mg/m3	
Proprietary	TWA	10 mg/m3	Total dust.
Canada. Saskatchewan O	ELs (Occupational Health and Safety Re	gulations, 1996, Table 21)	
Components	Туре	Value	
Calcium hydroxide (CAS 1305-62-0)	15 minute	10 mg/m3	
	8 hour	5 mg/m3	
Proprietary	15 minute	20 mg/m3	
	8 hour	10 mg/m3	
ological limit values	No biological exposure limits noted for	the ingredient(s).	
	maintain airborne levels below recommestablished, maintain airborne levels to sufficient to maintain concentrations of limit), suitable respiratory protection moperation which may generate dusts, to below the recommended exposure limit available when handling this product.	o an acceptable level. If engir dust particulates below the (ust be worn. If material is gro use appropriate local exhaust	neering measures are not DEL (occupational exposure und, cut, or used in any ventilation to keep exposur
-	s, such as personal protective equipme		
Eye/face protection	Use dust-tight, unvented chemical safe	ety goggles when there is pot	ential for eye contact.
Skin protection Hand protection	Wear appropriate chemical resistant g include rubber, neoprene, nitrile or vito		visable. Recommended glov
Other	Wear appropriate chemical resistant c	othing.	
Respiratory protection	If engineering controls do not maintain limits (where applicable) or to an acce been established), an approved respir- dust filter.	otable level (in countries whe	re exposure limits have not
Thermal hazards	Wear appropriate thermal protective cl	othing, when necessary.	
eneral hygiene nsiderations	Keep from contact with clothing and ot clothing promptly. Always observe goo handling the material and before eating	d personal hygiene measure	s, such as washing after

9. Physical and chemical properties

Appearance	
Physical state	Solid.
Form	Tablet.
Colour	White to pale yellow.
Odour	Odourless.
Odour threshold	Not available.
рН	12.5 (3% slurry/water)
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)	Oxidizer.
Upper/lower flammability or expl	osive limits
Flammability limit - lower (%)	Not available.

Flammability limit - upper	Not available.
(%)	
Explosive limit - lower (%)	Not available.
Explosive limit – upper (%)	Not available.
Vapour pressure	Not available.
Vapour density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Slightly soluble
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	275 °C (527 °F)
Viscosity	Not available.
Other information	
Explosive limit	Non-explosive.
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	Heat. Moisture. Avoid temperatures exceeding the decomposition temperature. Contact with incompatible materials.
Incompatible materials	Acids. Bases. Salts of heavy metals. Reducing Agents. Combustible material.
Hazardous decomposition products	Oxygen. Hydrogen peroxide (H2O2). Steam. Heat.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Dust may irritate respiratory system. Prolonged inhalation may be harmful.
Skin contact	Causes skin irritation.
Eye contact	Causes serious eye damage.
Ingestion	Ingestion may cause irritation and malaise.
Symptoms related to the physical, chemical and toxicological characteristics	Severe eye irritation. Dusts may irritate the respiratory tract, skin and eyes. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain.

Information on toxicological effects

Acute toxicity		
Components	Species	Test Results
Calcium hydroxide (CAS 1	305-62-0)	
Acute		
Oral		
LD50	Rat	7340 mg/kg
Diammonium phosphate (CAS 7783-28-0)	
Acute		
Dermal		
LD50	Rat	> 5000 mg/kg
Inhalation		
LD50	Rat	> 5000 mg/m³
Oral		
LD50	Rat	> 2000 mg/day

Components Species Test Results Dipotassium hydrogen orthophosphate (CAS 7758-11-4) Acute - Oral - 2000 mg/kg Skin corrosion/intriation Causes skin intriation - Serious avy damageley Causes skin intriation - Canada - Alberta OEL: strittant - Canada - Alberta OEL: strittant Cardia - Alberta OEL: strittant - Cardia - Alberta OEL: strittant Respiratory or skin sensitisation Not arespiratory sensitisation Not arespiratory sensitisation Respiratory sensitisation Not arespiratory sensitisation Not arespiratory sensitisation Gern cell mutagenicity Not daa saliable to indicate product or any components present at greater than 0.1% are mutagenici or genotoxic. Cardinogenicity This product is not expected to cause skin sensitisation. Specific target organ toxicity- sensitient product is not expected to cause reproductive or developmental effects. Specific target organ toxicity- sensitient hazard. Not classified. Prolonged inhalation may be harmful. 21 21. Ecological informatio Ecological informatio Ecotoxicity The product is not cassified as environmentally hazar		- ·				
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Waste from residues / unused Dispose of in accordance with local regulations. Empty containers or liners may retain some products products Dispose of in a coordance 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).	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:				

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	
UN number	UN1457
UN proper shipping name	CALCIUM PEROXIDE
Transport hazard class(es)	
Class	5.1
Subsidiary risk	-
Packing group	II
Environmental hazards	No
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
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
· ·	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	

15. Regulatory information

Canadian regulations

Controlled Drugs and Substances Act

Not regulated. Export Control List (CEPA 1999, Schedule 3) Not listed. Greenhouse Gases Not listed.

Precursor Control Regulations

Not regulated.

International regulations

- Stockholm Convention
- Not applicable.

Rotterdam Convention

Not applicable. Kyoto Protocol

Not applicable.

Montreal Protocol

Not applicable.

Basel Convention

Calcium peroxide (CAS 1305-79-9)

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 W/ and instance this product compliance with the investment operation of the interval by the revenues operation (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

Issue date	12-October-2015
Revision date	09-January-2019
Version No.	02
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.