Taxon: Curio × pe	Taxon: Curio × peregrinus (G.Kunkel) P.V.Heath		Family: Astera	сеае	
Common Name(s): dolphin no dolphin pl flying dolp Senecio h string of d	ant phins ippogriff	Synonym(s):	Curio articulatus x Curio rowleyanus Senecio articulatus x Senecio Senecio x peregrinus	
Assessor: Chuck (Chimera	Status: Assessor	r Approved	End Date: 31 Aug 2021	
WRA Score: 3.0		Designation: L		Rating: Low Risk	

Keywords: Artificial Hybrid, Succulent, Ornamental, Toxic, Spreads Vegetatively

Qsn #	Question	Answer Option	Answer
101	Is the species highly domesticated?	y=-3, n=0	n
102	Has the species become naturalized where grown?		
103	Does the species have weedy races?		
201	Species suited to tropical or subtropical climate(s) - If island is primarily wet habitat, then substitute "wet tropical" for "tropical or subtropical"	(0-low; 1-intermediate; 2-high) (See Appendix 2)	Intermediate
202	Quality of climate match data	(0-low; 1-intermediate; 2-high) (See Appendix 2)	Low
203	Broad climate suitability (environmental versatility)	y=1, n=0	n
204	Native or naturalized in regions with tropical or subtropical climates	γ=1, n=0	У
205	Does the species have a history of repeated introductions outside its natural range?	y=-2, ?=-1, n=0	?
301	Naturalized beyond native range	y = 1*multiplier (see Appendix 2), n= question 205	n
302	Garden/amenity/disturbance weed	n=0, y = 1*multiplier (see Appendix 2)	n
303	Agricultural/forestry/horticultural weed	n=0, y = 2*multiplier (see Appendix 2)	n
304	Environmental weed	n=0, y = 2*multiplier (see Appendix 2)	n
305	Congeneric weed	n=0, y = 1*multiplier (see Appendix 2)	У
401	Produces spines, thorns or burrs	y=1, n=0	n
402	Allelopathic		
403	Parasitic	y=1, n=0	n
404	Unpalatable to grazing animals		
405	Toxic to animals	γ=1, n=0	У
406	Host for recognized pests and pathogens		
407	Causes allergies or is otherwise toxic to humans	y=1, n=0	у

SCORE: *3.0*

Qsn #	Question	Answer Option	Answer
408	Creates a fire hazard in natural ecosystems	y=1, n=0	n
409	Is a shade tolerant plant at some stage of its life cycle		
410	Tolerates a wide range of soil conditions (or limestone conditions if not a volcanic island)		
411	Climbing or smothering growth habit	γ=1, n=0	n
412	Forms dense thickets		
501	Aquatic	γ=5, n=0	n
502	Grass	y=1, n=0	n
503	Nitrogen fixing woody plant	y=1, n=0	n
504	Geophyte (herbaceous with underground storage organs bulbs, corms, or tubers)	γ=1, n=0	n
601	Evidence of substantial reproductive failure in native habitat	γ=1, n=0	n
602	Produces viable seed	y=1, n=-1	у
603	Hybridizes naturally		
604	Self-compatible or apomictic		
605	Requires specialist pollinators		
606	Reproduction by vegetative fragmentation	y=1, n=-1	у
607	Minimum generative time (years)		
701	Propagules likely to be dispersed unintentionally (plants growing in heavily trafficked areas)		
702	Propagules dispersed intentionally by people	y=1, n=-1	У
703	Propagules likely to disperse as a produce contaminant	y=1, n=-1	n
704	Propagules adapted to wind dispersal		
705	Propagules water dispersed		
706	Propagules bird dispersed	y=1, n=-1	n
707	Propagules dispersed by other animals (externally)		
708	Propagules survive passage through the gut	y=1, n=-1	n
801	Prolific seed production (>1000/m2)	y=1, n=-1	n
802	Evidence that a persistent propagule bank is formed (>1 yr)		
803	Well controlled by herbicides		
804	Tolerates, or benefits from, mutilation, cultivation, or fire		
805	Effective natural enemies present locally (e.g. introduced biocontrol agents)		

Supporting Data:

Qsn #	Question	Answer
101	Is the species highly domesticated?	n
	Source(s)	Notes
	World of Succulents. (2021). Senecio 'Hippogriff' (String of Dolphins). https://worldofsucculents.com/senecio- peregrinus-dolphin-necklace/. [Accessed 30 Aug 2021]	"Gordon Rowley believed it was a hybrid of Curio articulatus (formerly known as Senecio articulatus) and Curio rowleyanus (formerly known as Senecio rowleyanus)."
	Wikipdedia. (2021). Curio × peregrinus. https://en.wikipedia.org/wiki/Curio_%C3%97_peregrinus. [Accessed 30 Aug 2021]	[Hybrid of ambiguous origin] "Curio × peregrinus,[1] also known as dolphin necklace, flying dolphins, string of dolphins, dolphin plant or Senecio hippogriff, is a succulent nothospecies of Curio (previously Senecio) in the family Asteraceae. It is often called, incorrectly, Senecio peregrinus, but that name was previously given, by Grisebach in 1879, to a different species from South America.[2] The name Curio × peregrinus was published in 1999, based on the earlier name Kleinia peregrina; however, this name was not validly published.[1] The plant is a hybrid between Curio rowleyanus and Curio articulatus."

102	Has the species become naturalized where grown?	
	Source(s)	Notes
	WRA Specialist. (2021). Personal Communication	NA

103	Does the species have weedy races?	
	Source(s)	Notes
	WRA Specialist. (2021). Personal Communication	NA

201	Species suited to tropical or subtropical climate(s) - If island is primarily wet habitat, then substitute "wet tropical" for "tropical or subtropical"	Intermediate
	Source(s)	Notes
	WFO (2021). World Flora Online. Published on the Internet; http://www.worldfloraonline.org. [Accessed 30 Aug 2021]	"Curio × peregrinus (G.Kunkel) P.V.Heath Calyx 6(2): 54 (1999), basionym not validly publ.: This name is reported by Compositae as ambiguous" [The name Curio × peregrinus was published in 1999, based on the earlier name Kleinia peregrina; however, this name was not validly published.[1] The plant is a hybrid between Curio rowleyanus and Curio articulatus.]
	Plant Care Today. (2021). Dolphin Necklace Care: All About Growing Senecio Peregrinus Plant. https://plantcaretoday.com/senecio-peregrinus.html. [Accessed 30 Aug 2021]	"These plants come from the drier regions of southwest Africa."

Qsn #	Question	Answer
202	Quality of climate match data	Low
	Source(s)	Notes
	WFO (2021). World Flora Online. Published on the Internet; http://www.worldfloraonline.org [Accessed 30 Aug 2021]	The name Curio × peregrinus was published in 1999, based on the earlier name Kleinia peregrina; however, this name was not validly published. The plant is a hybrid between Curio rowleyanus and Curio articulatus.

203	Broad climate suitability (environmental versatility)	n
	Source(s)	Notes
	Plant Care Today. (2021). Dolphin Necklace Care: All About Growing Senecio Peregrinus Plant. https://plantcaretoday.com/senecio-peregrinus.html. [Accessed 30 Aug 2021]	"This plant doesn't tolerate frost. It's recommended for USDA hardiness zones 9b to 11b. Senecio peregrinus grows best at an average temperature of about 72° degrees Fahrenheit (22° C) during the warmer months. During the winter, temperatures should not drop below 50° degrees Fahrenheit (10° C)."
	World of Succulents. (2021). Senecio 'Hippogriff' (String of Dolphins). https://worldofsucculents.com/senecio-peregrinus-dolphin-necklace/. [Accessed 30 Aug 2021]	"USDA hardiness zone 9b to 11 b: from 25 "F (- 3. 9 "C) to SO "F (+ 1 0 "C)."

204	Native or naturalized in regions with tropical or subtropical climates	У
	Source(s)	Notes
	World of Succulents. (2021). Senecio 'Hippogriff' (String of Dolphins). https://worldofsucculents.com/senecio- peregrinus-dolphin-necklace/. [Accessed 30 Aug 2021]	"Gordon Rowley believed it was a hybrid of Curio articulatus (formerly known as Senecio articulatus) and Curio rowleyanus (formerly known as Senecio rowleyanus)." [Parent species native to arid regions of southwestern Africa]
	WRA Specialist. (2021). Personal Communication	Cultivated in the Hawaiian Islands
	lmada, C. (2019). Hawaiian Naturalized Vascular Plants Checklist (February 2019 update). Bishop Museum Technical Report 69. Bishop Museum, Honolulu, HI	No evidence as of 2019

205	Does the species have a history of repeated introductions outside its natural range?	?
	Source(s)	Notes
	https://plantcaretoday.com/senecio-peregrinus.html	"It's often grown as a hanging succulent due to its slender, creeping growth." [Promoted on a number of websites. Unclear how often it is grown outdoors]

RATING:Low Risk

Qsn #	Question	Answer
301	Naturalized beyond native range	n
	Source(s)	Notes
	Imada, C. (2019). Hawaiian Naturalized Vascular Plants Checklist (February 2019 update). Bishop Museum Technical Report 69. Bishop Museum, Honolulu, HI	No evidence
	Randall, R.P. (2017). A Global Compendium of Weeds. 3rd Edition. Perth, Western Australia. R.P. Randall	No evidence

302	Garden/amenity/disturbance weed	n
	Source(s)	Notes
	Randall, R.P. (2017). A Global Compendium of Weeds. 3rd Edition. Perth, Western Australia. R.P. Randall	No evidence

303	Agricultural/forestry/horticultural weed	n
	Source(s)	Notes
	Randall, R.P. (2017). A Global Compendium of Weeds. 3rd Edition. Perth, Western Australia. R.P. Randall	No evidence

304	Environmental weed	n
	Source(s)	Notes
	Randall, R.P. (2017). A Global Compendium of Weeds. 3rd Edition. Perth, Western Australia. R.P. Randall	No evidence

305	Congeneric weed	Ŷ
	Source(s)	Notes
	Randall, R.P. (2017). A Global Compendium of Weeds. 3rd Edition. Perth, Western Australia. R.P. Randall	Several Senecio species are invasive weeds. Although no species of Curio are cited in this publication, given the hybrid nature of "string of dolphins", and the ambiguous taxonomy, this question will be answered conservatively as "Yes" until additional, more determinative information becomes available.

401	Produces spines, thorns or burrs	n
	Source(s)	Notes
		[No evidence] "Senecio 'Hippogriff', also known as Curio x peregrinus or Senecio x peregrinus, is a beautiful succulent plant with leaves that look like tiny dolphins jumping out of the waves. It grows up to 6 inches (15 cm) tall. As the leaves grow, they become more and more similar, perfecting themselves as an impressive potted plant. Flowers are small, white, and form tightly compacted puffballs. They appear in the fall. Each bloom has a halo of deep red to golden yellow filaments."

402 Allelopathic

Qsn #	Question	Answer
	Source(s)	Notes
	WRA Specialist. (2021). Personal Communication	Unknown. No evidence found

403	Parasitic	n
	Source(s)	Notes
	World of Succulents. (2021). Senecio 'Hippogriff' (String of Dolphins). https://worldofsucculents.com/senecio- peregrinus-dolphin-necklace/. [Accessed 31 Aug 2021]	"Senecio 'Hippogriff', also known as Curio x peregrinus or Senecio x peregrinus, is a beautiful succulent plant with leaves that look like tiny dolphins jumping out of the waves. It grows up to 6 inches (15 cm) tall. As the leaves grow, they become more and more similar, perfecting themselves as an impressive potted plant." [No evidence]

404	Unpalatable to grazing animals	
	Source(s)	Notes
	WRA Specialist. (2021). Personal Communication	Unknown

405	Toxic to animals	У
	Source(s)	Notes
	peregrinus) – How To Care And Propagate A Super Cute	"Is String Of Dolphins Toxic To Cats And Dogs? Unfortunately, the answer is YES. String of Dolphins is toxic to cats, dogs, and other pets so you need to keep your furry friend away from this succulent. Also, ensure to keep your Dolphin Plant out of reach of curious little children as it can also be mildly toxic to humans. Symptoms of poisoning: Abdominal pain, drooling, skin irritation, weakness, vomiting, diarrhea, liver failure."

406	Host for recognized pests and pathogens	
	Source(s)	Notes
	Inorogrinule) = HOW IO (are and Pronagate A Numer (1))	[Mealybugs, Aphids, & Red Spider Mites are listed among the widespread and common pests that may affect this plant] "Pests And Diseases - String of Dolphins tends to be quite a pest and disease- resistant plant, but it can still be harmed occasionally by common houseplant insects, such as mealybugs, aphids, and red spider mites. With early detection and proper treatment, however, the infestation can easily be brought under control. If you notice that your succulent has stopped growing, it is most likely due, unfortunately, to a pest invasion."

Qsn #	Question	Answer
407	Causes allergies or is otherwise toxic to humans	У
	Source(s)	Notes
	Epic Succulents. (2021). String Of Dolphins (Senecio peregrinus) – How To Care And Propagate A Super Cute Succulent! https://www.epicsucculents.com/string-of- dolphins-care-and-propagation/. [Accessed 31 Aug 2021]	[Mildly toxic] "Is String Of Dolphins Toxic To Cats And Dogs? Unfortunately, the answer is YES. String of Dolphins is toxic to cats, dogs, and other pets so you need to keep your furry friend away from this succulent. Also, ensure to keep your Dolphin Plant out of reach of curious little children as it can also be mildly toxic to humans. Symptoms of poisoning: Abdominal pain, drooling, skin irritation, weakness, vomiting, diarrhea, liver failure."

408	Creates a fire hazard in natural ecosystems	n
	Source(s)	Notes
	https://plantcaretoday.com/senecio-peregrinus.html.	"As a succulent, the dolphin necklace stores water in its stems and can tolerate drought longer." [No evidence. Unlikely given succulent habit]

409	Is a shade tolerant plant at some stage of its life cycle	
	Source(s)	Notes
	The Spruce. (2021). How to Grow and Care for String of Dolphins. https://www.thespruce.com/growing-string-of-dolphins-5089406. [Accessed 31 Aug 2021]	"Sun Exposure: Full to partial sun"
	Plant Care Today. (2021). Dolphin Necklace Care: All About Growing Senecio Peregrinus Plant. https://plantcaretoday.com/senecio-peregrinus.html. [Accessed 31 Aug 2021]	[Light shade] "Grow dolphin necklace under bright, indirect sunlight. In moist conditions, it should receive partial shade. It may develop scorching when placed in full sunlight."

410	Tolerates a wide range of soil conditions (or limestone conditions if not a volcanic island)	
	Source(s)	Notes
	The Spruce. (2021). How to Grow and Care for String of Dolphins. https://www.thespruce.com/growing-string-of-dolphins-5089406. [Accessed 31 Aug 2021]	"Soil Type - Well-draining, cactus/succulent soil"
	IVIANT (are Loday (////1) Lioinnin Necklace (are //II //hout	"Use well-draining potting medium or succulent potting mix. To make homemade succulent potting mix, combine the following: 1 part perlite 2 parts coarse sand 2 parts peat moss"

SCORE: *3.0*

Qsn #	Question	Answer
411	Climbing or smothering growth habit	n
	Source(s)	Notes
	Growing Senecio Peregrinus Plant. https://plantcaretoday.com/senecio-peregrinus.html.	[Creeping, and used in hanging baskets, but no evidence of climbing or smothering growth habit] "Senecio peregrinus is a succulent with thin stems and oddly shaped leaves. It's often grown as a hanging succulent due to its slender, creeping growth."

412	Forms dense thickets	
	Source(s)	Notes
	WRA Specialist. (2021). Personal Communication	A succulent of hybrid original commonly used in hanging baskets. Low-growing habit unlikely to form dense thickets that would impede movement. Ability to compete with or exclude other vegetation unknown.

50	1	Aquatic	n
		Source(s)	Notes
		https://plantcaretoday.com/senecio-peregrinus.html	[Terrestrial, or used in hanging baskets] "a succulent with thin stems and oddly shaped leaves. It's often grown as a hanging succulent due to its slender, creeping growth."

502	Grass	n
	Source(s)	Notes
	USDA, Agricultural Research Service, National Plant Germplasm System. (2021). Germplasm Resources Information Network (GRIN-Taxonomy). National Germplasm Resources Laboratory, Beltsville, Maryland	Genus: Curio Family: Asteraceae (alt. Compositae) Subfamily: Asteroideae Tribe: Senecioneae Subtribe: Senecioninae

503	Nitrogen fixing woody plant	n
	Source(s)	Notes
	USDA, Agricultural Research Service, National Plant	Genus: Curio
	Germplasm System. (2021). Germplasm Resources	Family: Asteraceae (alt. Compositae)
	Information Network (GRIN-Taxonomy). National	Subfamily: Asteroideae
	Germplasm Resources Laboratory, Beltsville, Maryland.	Tribe: Senecioneae
	https://npgsweb.ars-grin.gov/. [Accessed 31 Aug 2021]	Subtribe: Senecioninae

RATING:Low Risk

Qsn #	Question	Answer
504	Geophyte (herbaceous with underground storage organs bulbs, corms, or tubers)	n
	Source(s)	Notes
	Plant Care Today. (2021). Dolphin Necklace Care: All About Growing Senecio Peregrinus Plant. https://plantcaretoday.com/senecio-peregrinus.html. [Accessed 31 Aug 2021]	"'a succulent with thin stems and oddly shaped leaves."

601	Evidence of substantial reproductive failure in native habitat	n
	Source(s)	Notes
	Wikipdedia. (2021). Curio × peregrinus. https://en.wikipedia.org/wiki/Curio_%C3%97_peregrinus.	[NA] "The name Curio × peregrinus was published in 1999, based on the earlier name Kleinia peregrina; however, this name was not validly published.[1] The plant is a hybrid between Curio rowleyanus and Curio articulatus."

602	Produces viable seed	У
	Source(s)	Notes
	Succulent City. (2021). What You Should Know About Dolphin Succulent. https://succulentcity.com/everything- about-dolphin-succulents/. [Accessed 31 Aug 2021]	"If you're growing succulents from seed, dolphin succulents are generally easy to cultivate, just don't forget to first soak them in warm water and then cold water in order for them to germinate. After that you can plant the seeds into a container with soil." "Cover the container with plastic (with a few holes in it for aeration) or a similar wrapping, mist your seeds quite often in order to keep the soil slightly moist. Then wait for your seedlings to sprout. Once your seedlings are established you can move them out of the plastic covered container."
	The Tilth. (2021). Senecio Peregrinus "String of Dolphins". https://thetilth.com/senecio-peregrinus/. [Accessed 31 Aug 2021]	 "Senecio peregrinus can be propagated by seeds and by cuttings in spring. Seeds: First Step: Fill a pot with black peat mixed with a picex in equal parts, and then add water to the substrate. Second step: place the seeds on the surface of the substrate and then cover the seeds with a thin layer of pomice or river sand. Third step: Finally, place the pot outside, in semi-shade. Third step: water the seeds, but this time with a sprayer. Recommendation: sprinkle copper or sulfur to avoid the appearance of fungi. If all goes well, they will germinate in 2-3 weeks."

603	Hybridizes naturally	
	Source(s)	Notes
		[An artificial hybrid. Ability to hybridize with other taxa unknown] "The plant is a hybrid between Curio rowleyanus and Curio articulatus."

604

Self-compatible or apomictic

Qsn #	Question	Answer
	Source(s)	Notes
	$nttnc'//tnotilitn/com/conorio_norogrinilic//larcoccod \prec i$	[Unknown] "Senecio peregrinus can be propagated by seeds and by cuttings in spring."

605	Requires specialist pollinators	
	Source(s)	Notes
	WRA Specialist. (2021). Personal Communication	Unknown. An artificial hybrid primarily propagated by cuttings

606	Reproduction by vegetative fragmentation	Ŷ
	Source(s)	Notes
	Succulents and Sunshine. (2021). Senecio peregrinus. String of Dolphins. https://www.succulentsandsunshine.com/types-of- succulents/senecio-peregrinus-string-of-dolphins/. [Accessed 31 Aug 2021]	"As Senecio peregrinus "String of Dolphins" grows, it spreads out across the ground, or grows down out of a hanging basket." "To grow "String of Dolphins" from cuttings, use a sterile, sharp knife or pair of scissors. Remove a stem from the main plant, and allow it to callous for several days before placing on well-draining soil. Water whenever the soil has dried out completely."
	The Spruce. (2021). How to Grow and Care for String of Dolphins. https://www.thespruce.com/growing-string-of- dolphins-5089406. [Accessed 31 Aug 2021]	"String of dolphins can be easily propagated from stem cuttings in water or soil. Take cuttings that have at least 2-3 nodes along the stem for the best chance of success. The nodes can be found at the points where the leaves emerge from the stems and are where the new roots will grow. If you are propagating stem cuttings in water, remove the leaves from the bottom node or two to ensure that the leaves don't rot. Roots should develop within a couple of weeks, at which point you can transfer the cutting to soil. If you are propagating in soil only, simply lay the stem cutting on top of the soil and ensure that the soil is kept moist until roots develop."
	Succulent City. (2021). What You Should Know About Dolphin Succulent. https://succulentcity.com/everything- about-dolphin-succulents/. [Accessed 31 Aug 2021]	"The plant will shoot out roots wherever it touches the soil. Take note that you can only propagate dolphin succulents from cuttings and not from their leaves. The leaves are likely to root, but no new leaves or stems will grow."
	WRA Specialist. (2021). Personal Communication	Able to be propagated vegetatively and root at nodes. Likely to spread vegetatively

607	Minimum generative time (years)	
	Source(s)	Notes
	Succulent City. (2021). What You Should Know About	[Unknown. Primarily propagated by cuttings, so time to maturity may be irrelevant] "The plant will shoot out roots wherever it touches the soil. Take note that you can only propagate dolphin succulents from cuttings and not from their leaves. The leaves are likely to root, but no new leaves or stems will grow."

701	Propagules likely to be dispersed unintentionally (plants growing in heavily trafficked areas)	
	Source(s)	Notes

RATING:Low Risk

Qsn #	Question	Answer
	Succulent City. (2021). What You Should Know About Dolphin Succulent. https://succulentcity.com/everything- about-dolphin-succulents/. [Accessed 31 Aug 2021]	[Could possibly be spread in garden waste, although direct evidence is lacking] "The plant will shoot out roots wherever it touches the soil. Take note that you can only propagate dolphin succulents from cuttings and not from their leaves. The leaves are likely to root, but no new leaves or stems will grow."
	WRA Specialist. (2021). Personal Communication	Description of seeds lacking. An artificial hybrid typically propagated by vegetative means. Unknown if seeds, if/when produced, have a pappus or other structure that could allow for attachment to clothing, shoes or fur

702	Propagules dispersed intentionally by people	У
	Source(s)	Notes
	https://plantcaretoday.com/senecio-peregrinus.html	"It's often grown as a hanging succulent due to its slender, creeping growth." [Promoted on a number of websites. Unclear how often it is grown outdoors]

703	Propagules likely to disperse as a produce contaminant	n
	Source(s)	Notes
	INVRA Specialist (2021) Personal Communication	Unlikely. Typically propagated vegetatively, although some websites state that it may be propagated with seeds.

704	Propagules adapted to wind dispersal	
	Source(s)	Notes
	Milton, J. J. (2009). Phylogenetic analyses and taxonomic studies of Senecioninae: southern African Senecio section	[Unknown. Related taxa dispersed by wind, and external attachment] "Taken overall, the two species differ for numerous morphological traits, some of which may relate to differences in breeding system (selfing in S. flavus vs. outcrossing in S. engleranus), habitat (more arid in S. engleranus), and fruit dispersal (ectozoochory in addition to anemochory in S. engleranus)."

705	Propagules water dispersed	
	Source(s)	Notes
	Dolphin Succulent. https://succulentcity.com/everything-	[Unknown if vegetative fragments could be moved by water] "The plant will shoot out roots wherever it touches the soil. Take note that you can only propagate dolphin succulents from cuttings and not from their leaves."

SCORE: *3.0*

Qsn #	Question	Answer
706	Propagules bird dispersed	n
	Source(s)	Notes
	Fudicots: Asterales Springer-Verlag Berlin Heidelberg	[Family description] "Dispersal. The disseminules of Compositae are dispersed mainly bywind, sometimes externally by mammals, less often by ants or other agents."
	WRA Specialist. (2021). Personal Communication	This plant is typically propagated by vegetative means. Seeds, if produced, are not adapted for frugivory

707	Propagules dispersed by other animals (externally)	
	Source(s)	Notes
	WRA Specialist. (2021). Personal Communication	Description of seeds lacking. An artificial hybrid typically propagated by vegetative means. Unknown if seeds, if/when produced, have a pappus or other structure that could allow for attachment to clothing, shoes or fur

708	Propagules survive passage through the gut	n
	Source(s)	Notes
	IWRA Specialist (2021) Personal Communication	Typically propagated vegetatively, but no evidence of consumption, or internal dispersal of viable propagules.

801	Prolific seed production (>1000/m2)	n
	Source(s)	Notes
	Succulent City. (2021). What You Should Know About Dolphin Succulent. https://succulentcity.com/everything- about-dolphin-succulents/. [Accessed 31 Aug 2021]	"If you're growing succulents from seed, dolphin succulents are generally easy to cultivate, just don't forget to first soak them in warm water and then cold water in order for them to germinate. After that you can plant the seeds into a container with soil."
	WRA Specialist. (2021). Personal Communication	Although some websites indicate that "String of dolphins" may be propagated with seeds, the majority of websites recommend propagation by vegetative methods. No sites discuss an abundance of seed production, suggesting seed set of this artificial hybrid may be minimal or absent

80)2	Evidence that a persistent propagule bank is formed (>1 yr)	
		Source(s)	Notes
		WRA Specialist. (2021). Personal Communication	Unknown, although seed production may be minimal, or absent

803	Well controlled by herbicides	
	Source(s)	Notes
	IWRA Specialist (2021) Personal Communication	Unknown. No information on herbicide efficacy or evidence of chemical control of this species

RATING:Low Risk

Qsn #	Question	Answer
804	Tolerates, or benefits from, mutilation, cultivation, or fire	
	Source(s)	Notes
	The Tilth. (2021). Senecio Peregrinus "String of Dolphins". https://thetilth.com/senecio-peregrinus/. [Accessed 31 Aug 2021]	"Growing fast it may be that Senecio rowleyanus needs to be pruned, and if so, you can prune it in late winter."
	WRA Specialist. (2021). Personal Communication	Possibly. Ability to propagate vegetatively suggests plants may tolerate repeated cutting or pruning

805	Effective natural enemies present locally (e.g. introduced biocontrol agents)	
	Source(s)	Notes
	WRA Specialist. (2021). Personal Communication	Unknown

Summary of Risk Traits:

High Risk / Undesirable Traits

• An artificial hybrid of ambiguous taxonomy; reliability of cited sources uncertain.

• Able to grow, and potentially spread, in regions with tropical climates

• Species of Senecio, the genus in which the putative parent species of this hybrid were once classified, have become invasive weeds

• Reported to be toxic to cats, dogs, and mildly toxic to people if ingested

• Reported to reproduce by seeds and vegetatively by cuttings and rooting at nodes

• Limited reliable information on the biology and ecology of this hybrid reduces the accuracy of risk prediction

Low Risk Traits

• A popular ornamental plant with no reports of naturalization or invasiveness elsewhere, but unclear how frequently this plant is grown outdoors

• Unarmed (no spines, thorns, or burrs)

• Most websites describe vegetative propagation of this hybrid, suggesting seed production may be limited or absent.

Second Screening Results for Herbs or Low Stature Shrubby Life Forms

(A) Reported as a weed of cultivated lands? No Outcome = Accept (Low Risk)