

A Comparison of STARKLE 20 SG and Path-Away® Solution for Use in an Agricultural Setting

The purpose of this comparison is to identify and quantify differences so as to logically identify the product that will produce the best efficacy and the least amount of environmental damage particularly looking at long term product application. This information is based on product content.

Product		Product	
<u>STRAKLE 20 SG</u>		<u>Path-Away® Solution</u>	
Active Ingredient	Dinotefuran	Active Ingredient	Proprietary Plant Bio flavanones
Hazards Identification	Warning!	Hazards Identification	All components listed as GRAS
OSHA Hazards	Harmful by ingestion. If swallowed call a POISON CENTER.		
SARA 311/312 Hazards	<i>Acute Health Hazard</i>	SARA Hazards	None
HMIS Classification	1.	HMIS Classification	0
Inhalation	May cause respiratory tract irritation. Move person to fresh air. <i>If not breathing give artificial respiration.</i> Consult physician.	Inhalation	Standard ASHRAE ventilation.
Skin	May be harmful if absorbed. May cause skin Irritation. Wash with plenty of soap/water. Consult physician	Skin	Non-irritant at 5% and below. Product is Used as an alcohol free, chemical free hand sanitizer as well as skin cream for rash.
Eyes	May cause eye irritation. Rinse minimum of fifteen minutes. Consult physician.	Eyes	Slight irritant above 5% concentration
If swallowed	Rinse mouth with water. Consult physician.	If swallowed	Consume 6-8 fluid ounces of water.
Accidental Release Measures	Use personal protection. Ensure adequate ventilation and avoid dust formation.	Accidental release	Flush with water for concentrate. Pick up with absorbent materials. Regular disposal.
Environmental Precautions	Do not let product enter drains. Discharge into the environment must be avoided.	Environmental Precautions	Totally biodegradable and non-harmful.
Containment of Cleanup	Keep in suitable closed containers for disposal.	Containment of Cleanup	Can be disposed of in landfill.

PPE Respiratory	Where risk is apparent utilize N95 (US) or type P1 (EN 143) respirator.	PPE Respiratory	None needed. Closed chamber exposure for 8 hrs./day during 5 day/week for 90 days Indicated no effect at 100-150 mg/m ³ air.
Hand Protection	Handle with protective gloves.	Hand Protection	None needed
Eye Protection	Safety glasses with side shields.	Eye Protection	Glasses
Skin/Body Protection	Choose protection according to concentration.	Skin/Body Protection	None needed
Hygiene Measures	Wash hands before breaks and at end of day.	Hygiene Measures	No special precautions needed
Flash Point	No data available	Flash point	171 C (340 F)
Solubility in Water	39.8g/l at 20 C (68 F)	Solubility in Water	Totally soluble
Toxicological Data	Oral LD50 (rat) 2,000mg/kg Dermal LD50 (rat) >2,000mg/kg	Toxicological Data	Oral LD50 @ 5% (rat) 100,000ng/kg Dermal LD50 @ 5% (rat) >100,000mg/kg
Ecological Data	Toxic to bees. Toxic to soil organisms. Toxicity to fish, daphnia and other aquatic invertebrates. Toxic to algae.	Ecological Data:	Non-toxic to aquatics, bees, mammals.
Biodegradability	According to test results it is not readily biodegradable. <i>NOTE: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal!</i> <i>May cause long term adverse effects in the aquatic environment.</i>	Biodegradability	Totally biodegradable
Additional	None available	Additional:	USA Registration # 4,032,774 N.Z. EPA #HRS100548/100549 Halal Certified # 9-20030000000-2 BioGro Certified # 5479 Organic/No GMO IFOAM Meets Standards MPI OOAP-EU Meets Standards MPI OOAP- USDA Meets Standards MPI OOAP- Taiwan Meets Standards JAS (Japan 2009) Meets Standards
Proven Safe Efficacy	Not available	Proven Safe Efficacy	120+ fungi, bacteria, yeasts, viruses, insects.

Product of

Product is produced in various labs by various Manufacturers.

Certified Lab Testing

USA
New Zealand
Canada
Cyprus

Product of

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