

VersionRevision Date:SDS Number:1.008/20/2021S00059606825

This version replaces all previous versions.

SECTION 1. IDENTIFICATION

Product name	:	POSTIVA
Design code.	:	A20259G

Product Registration number : 100-1661

Manufacturer or supplier's details

Company name of supplier Address	:	Syngenta Crop Protection, LLC Post Office Box 18300 Greensboro NC 27419 United States of America (USA)
Telephone	:	1 800 334 9481
Telefax	:	1 336 632 2192
E-mail address	:	sds.requests@syngenta.com
Emergency telephone	:	1 800 888 8372
Recommended use of the cl Recommended use	nem :	nical and restrictions on use Fungicide

Restrictions on use : General Use Pesticide

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a hazardous substance or mixture.

GHS label elements

Not a hazardous substance or mixture.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

CAS-No.	Concentration (% w/w)
119446-68-3	11.4679
1228284-64-7	6.8807
57-55-6	>= 5 - < 10
	119446-68-3 1228284-64-7

Actual concentration is withheld as a trade secret



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SECTION 4. FIRST AID MEASUR	ES
General advice	: Have the product container, label or Safety Data Sheet with you when calling the emergency number, a poison control center or physician, or going for treatment.
If inhaled	 Take the victim into fresh air. If breathing is irregular or stopped, administer artificial respiration. Keep patient warm and at rest. Call a physician or poison control center immediately.
In case of skin contact	 Take off all contaminated clothing immediately. Wash off immediately with plenty of water. If skin irritation persists, call a physician. Wash contaminated clothing before re-use.
In case of eye contact	 Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Immediate medical attention is required.
If swallowed	 If swallowed, seek medical advice immediately and show this container or label. Do NOT induce vomiting.
Most important symptoms and effects, both acute and delayed	: Nonspecific No symptoms known or expected.
Notes to physician	: There is no specific antidote available. Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Extinguishing media - small fires Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Extinguishing media - large fires Alcohol-resistant foam or Water spray
Unsuitable extinguishing media	:	Do not use a solid water stream as it may scatter and spread fire.
Specific hazards during fire fighting	:	As the product contains combustible organic ingredients, fire will produce dense black smoke containing hazardous products of combustion (see section 10). Exposure to decomposition products may be a hazard to health.
Further information	:	Do not allow run-off from fire fighting to enter drains or water courses.
Special protective equipment for fire-fighters	:	Cool closed containers exposed to fire with water spray. Wear full protective clothing and self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions,

: Refer to protective measures listed in sections 7 and 8.



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protec	ctive equipment and			
	gency procedures			
Enviro	onmental precautions	:	Do not flush into	eakage or spillage if safe to do so. surface water or sanitary sewer system. ntaminates rivers and lakes or drains inform rities.
	ods and materials for inment and cleaning up	p absorbent materia vermiculite) and p local / national re Clean contamina Clean with deterg		and then collect with non-combustible ial, (e.g. sand, earth, diatomaceous earth, place in container for disposal according to egulations (see section 13). ated surface thoroughly. gents. Avoid solvents. ose of contaminated wash water.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling	:	No special protective measures against fire required. Avoid contact with skin and eyes. When using do not eat, drink or smoke. For personal protection see section 8.
Conditions for safe storage	:	No special storage conditions required. Keep containers tightly closed in a dry, cool and well- ventilated place. Keep out of the reach of children. Keep away from food, drink and animal feedingstuffs.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
difenoconazole	119446-68-3	TWA	5 mg/m3	Syngenta
pydiflumetofen	1228284-64- 7	TWA	5 mg/m3	Syngenta
propane-1,2-diol	57-55-6	TWA	10 mg/m3	US WEEL
Engineering measures : THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION AND PACKAGING OF THE PRODUCT. FOR COMMERCIAL				

CONSULT THE PRODUCT LABEL. Containment and/or segregation is the most reliable technical protection measure if exposure cannot be eliminated. The extent of these protection measures depends on the actual risks in use.

APPLICATIONS AND/OR ON-FARM APPLICATIONS

Maintain air concentrations below occupational exposure



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		standards. Where neces advice.	sary, seek additional occupational hygiene	
Perso	onal protective equip	ment		
Respi	iratory protection	required. When worker	 No personal respiratory protective equipment normally required. When workers are facing concentrations above the exposur limit they must use appropriate certified respirators. 	
Hand	protection			
Re	emarks	: No special pr	otective equipment required.	
Eye p	rotection	: No special pr	No special protective equipment required.	
Skin a	and body protection	Select skin ar	No special protective equipment required. Select skin and body protection based on the physical job requirements.	
Prote	ctive measures	over the use When selecti	The use of technical measures should always have priority over the use of personal protective equipment. When selecting personal protective equipment, seek appropriate professional advice.	

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Color	:	white
Odor	:	No data available
Odor Threshold	:	No data available
рН	:	6 - 8 Concentration: 1 % w/v
		5 - 10 Concentration: 100 % w/v
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available
Flash point	:	Method: Seta closed cup does not flash
Evaporation rate	:	No data available
Flammability (solid, gas)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available



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	er explosion limit / Lower mability limit	:	No data available	9
Vap	or pressure	:	No data available	
Rela	ative vapor density	:	No data available	9
Der	sity	:	1.09 g/cm3 (68 °	F / 20 °C)
	Solubility(ies) Water solubility		No data available	9
Ś	Solubility in other solvents	:	No data available	9
	Partition coefficient: n- octanol/water		No data available	9
	bignition temperature	:	> 1202 °F / > 650	D° C
Dec	omposition temperature	:	No data available	9
	cosity /iscosity, dynamic	:	No data available	9
١	/iscosity, kinematic	:	No data available	9
Exp	losive properties	:	Not explosive	
Oxio	dizing properties	:	The substance o	r mixture is not classified as oxidizing.
Par	Particle size		No data available	9

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	None reasonably foreseeable.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	No dangerous reaction known under conditions of normal use.
Conditions to avoid	:	No decomposition if used as directed.
Incompatible materials	:	None known.
Hazardous decomposition products	:	No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Ingestion Inhalation Skin contact Eye contact



ersion)	VA Revision Date: 08/20/2021	SDS Nu S00059	Imber: This version replaces all previous version 606825 606825
Acute	toxicity		
Produ	ct:		
	oral toxicity	: LD5	0 (Rat, female): 1,098 mg/kg
Acute	inhalation toxicity	Exp Tes Ass inha	0 (Rat, male and female): > 4.96 mg/l osure time: 4 h t atmosphere: dust/mist essment: The substance or mixture has no acute lation toxicity marks: Highest attainable concentration
Acute dermal toxicity			0 (Rat, male and female): > 2,000 mg/kg essment: The substance or mixture has no acute derma city
<u>Comp</u>	onents:		
difeno	conazole:		
Acute	oral toxicity	Ass	0 (Rat, male and female): 1,453 mg/kg essment: The component/mixture is moderately toxic aff le ingestion.
Acute	inhalation toxicity	Exp Tes Ass	0 (Rat, male and female): > 3,300 mg/m3 osure time: 4 h t atmosphere: dust/mist essment: The substance or mixture has no acute ilation toxicity
Acute	dermal toxicity		0 (Rabbit, male and female): > 2,010 mg/kg essment: The substance or mixture has no acute derma city
pydiflu	umetofen:		
Acute	oral toxicity	: LD5	0 (Rat, male and female): > 5,000 mg/kg
Acute	inhalation toxicity	Exp Tes Ass	0 (Rat, male and female): > 5.11 mg/l osure time: 4 h t atmosphere: dust/mist essment: The component/mixture is minimally toxic after rt term inhalation.
Acute	dermal toxicity	: LD5	0 (Rat, male and female): > 5,000 mg/kg
Skin c	orrosion/irritation		
<u>Produ</u>	ct:		
Specie Result	es	: Rab : Nos	bit skin irritation



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<u>Com</u>	oonents:				
difen	oconazole:				
Speci	es	: Rabbit			
Resul	lt	: No skin irri	tation		
pydif	lumetofen:				
Speci		: Rabbit			
Resul	t	: No skin irri	tation		
Serio	us eye damage/eye	irritation			
Produ	uct:				
Speci		: Rabbit			
Resul	t	: No eye irrit	ation		
<u>Com</u>	oonents:				
difen	oconazole:				
Speci		: Rabbit			
Resul	t	: Irritation to	eyes, reversing within 7 days		
pydif	lumetofen:				
Speci		: Rabbit			
Result		: No eye irrit	: No eye irritation		
Resp	iratory or skin sens	tization			
<u>Produ</u>					
Test T		-	phoma cells		
Speci Resul		: Mouse	use sensitization on laboratory animals.		
itesui		. Did fibi cat			
<u>Com</u>	oonents:				
	oconazole:				
Speci		: Guinea pig			
Resul	IT	: Did not cau	use sensitization on laboratory animals.		
	lumetofen:				
Test			phoma cells		
Speci Resul		: Mouse	use sensitization on laboratory animals.		
	T	: Did not cau	ise sensitization on lanoratory animals		



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Germ	cell mutagenicity		
<u>Comp</u>	oonents:		
	oconazole:	· Animal to	ating did not above any mutagania offacto
	cell mutagenicity - sment	: Animal te	sting did not show any mutagenic effects.
pydifl	umetofen:		
	cell mutagenicity - sment	: Animal te	sting did not show any mutagenic effects.
Carci	nogenicity		
<u>Comp</u>	oonents:		
difend	oconazole:		
	nogenicity - sment	: Weight of carcinoge	evidence does not support classification as a
pydifl	umetofen:		
	nogenicity - sment	: Weight of carcinoge	evidence does not support classification as a en
Repro	oductive toxicity		
<u>Comp</u>	oonents:		
difend	oconazole:		
	ductive toxicity - sment	: No toxicit	y to reproduction
pydifl	umetofen:		
	ductive toxicity - sment		nce of adverse effects on sexual function and fertilit elopment, based on animal experiments.
Repea	ated dose toxicity		
<u>Comp</u>	oonents:		
difend	oconazole:		
Rema	rks	: No adver	se effect has been observed in chronic toxicity tests
CTION	12. ECOLOGICAL IN	FORMATION	
Ecoto	xicity		
	-		

difenoconazole: Toxicity to fish

: LC50 (Oncorhynchus mykiss (rainbow trout)): 1.1 mg/l Exposure time: 96 h

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	/ to daphnia and other invertebrates	:	EC50 (Daphnia magna (Water flea)): 0.77 mg/l Exposure time: 48 h
			EC50 (Americamysis): 0.15 mg/l Exposure time: 96 h
Toxicity plants	/ to algae/aquatic	:	EC50 (Navicula pelliculosa (Freshwater diatom)): 0.091 mg Exposure time: 72 h
			NOEC (Navicula pelliculosa (Freshwater diatom)): 0.053 mg Exposure time: 72 h
			ErC50 (Desmodesmus subspicatus (green algae)): 0.0876 mg/l Exposure time: 72 h
			EC10 (Desmodesmus subspicatus (green algae)): 0.015 m End point: Growth rate Exposure time: 72 h
	or (Acute aquatic	:	10
toxicity Toxicity toxicity	y to fish (Chronic	:	NOEC (Pimephales promelas (fathead minnow)): 0.0076 m Exposure time: 34 d
aquatio	/ to daphnia and other invertebrates ic toxicity)	:	NOEC (Daphnia magna (Water flea)): 0.0056 mg/l Exposure time: 21 d
(2	,		NOEC (Americamysis): 0.0023 mg/l Exposure time: 28 d
	or (Chronic aquatic	:	10
toxicity Toxicity) / to microorganisms	:	EC50 (activated sludge): > 100 mg/l Exposure time: 3 h
pydiflu	imetofen:		
Toxicity	/ to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 0.18 mg/l Exposure time: 96 h
	y to daphnia and other invertebrates	:	EC50 (Daphnia magna (Water flea)): 0.42 mg/l Exposure time: 48 h
			LC50 (Americamysis): 0.16 mg/l Exposure time: 96 h
Toxicity plants	/ to algae/aquatic	:	ErC50 (Raphidocelis subcapitata (freshwater green alga)): 5.9 mg/l Exposure time: 96 h
			NOEC (Raphidocelis subcapitata (freshwater green alga)): 0.093 mg/l



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			End point: Growth Exposure time: 96	
M-Fac	tor (Acute aquatic	:	1	
Toxicit toxicity	ty to fish (Chronic y)	:	NOEC (Pimephale Exposure time: 32	s promelas (fathead minnow)): 0.025 mg/ d
aquati	ty to daphnia and other c invertebrates nic toxicity)	:	NOEC (Daphnia m Exposure time: 21	agna (Water flea)): 0.042 mg/l d
	ile toxicity)		NOEC (Americamy Exposure time: 28	
M-Fac toxicity	tor (Chronic aquatic y)	:	1	
Persis	stence and degradabil	ity		
<u>Comp</u>	onents:			
	o conazole: gradability	:	Result: Not readily	biodegradable.
Stabili	ty in water	:	Degradation half lif Remarks: Product	
pydifl	umetofen:			
Biode	gradability	:	Result: Not readily	biodegradable.
Stabili	ty in water	:	Remarks: The sub	stance is stable in water.
Bioac	cumulative potential			
<u>Comp</u>	onents:			
	conazole: cumulation	:	Remarks: High bio	accumulation potential.
	on coefficient: n- bl/water	:	log Pow: 4.4 (77 °F	= / 25 °C)
	umetofen: cumulation	:	Remarks: Does no	t bioaccumulate.
	on coefficient: n- bl/water	:	log Pow: 3.8 (77 °F	= / 25 °C)
Mobili	ity in soil			
<u>Comp</u>	onents:			
difenc	oconazole:			
Distrib	oution among	:	Remarks: Low mol	bility in soil.



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	onmental compartments lity in soil	:		149 - 187 d bation: 50 % (DT50) t is not persistent.
pydif	lumetofen:			
	bution among	:	Remarks: Low me	obility in soil.
	environmental compartments Stability in soil		Dissipation time: Percentage dissip Remarks: Persist	oation: 50 % (DT50)
Othe	r adverse effects			
<u>Com</u>	ponents:			
Resu	oconazole: Its of PBT and vPvB ssment	:	bioaccumulating a	not considered to be persistent, and toxic (PBT). This substance is not very persistent and very bioaccumulating
pydif	lumetofen:			
Resu	Its of PBT and vPvB ssment	:	to be either persis	ixture contains no components considered stent, bioaccumulative and toxic (PBT), or nd very bioaccumulative (vPvB) at levels of

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods	
Waste from residues	 Do not contaminate ponds, waterways or ditches with chemical or used container. Do not dispose of waste into sewer. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with
Contaminated packaging	 local regulations. Empty remaining contents. Triple rinse containers. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

UN number	 : UN 3082 : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
Proper shipping name	N.O.S.



P051	IVA			
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			ENOCONA	ZOLE AND PYDIFLUMETOFEN)
Class		: 9		
	ing group	:		
Labe	IS	: 9		
	-DGR			
UN/IE		: UN 3		
Proper shipping name				hazardous substance, liquid, n.o.s. ZOLE AND PYDIFLUMETOFEN)
Class		: 9		
	ing group	:		
Labe			ellaneous	
Pack aircra	ing instruction (cargo aft)	: 964		
	ing instruction	: 964		
	enger aircraft)			
Envir	onmentally hazardous	: yes		
IMDO	G-Code			
	umber	: UN 3		
Proper shipping name				ALLY HAZARDOUS SUBSTANCE, LIQUID,
		N.O.S		
Class		•		ZOLE AND PYDIFLUMETOFEN)
	ing group	: 9 : III		
Labe		: 9		
	Code	: F-A, S	S-F	
	ne pollutant	: yes		
		. ,		

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation

49 CFR Not regulated as a dangerous good Remarks : S

Shipment by ground under DOT is non-regulated; however it may be shipped per the applicable hazard classification to facilitate multi-modal transport involving ICAO (IATA) or IMO.

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label: Caution Harmful if swallowed.

Harmful if absorbed through skin. Avoid contact with skin, eyes or clothing.



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Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

Remove and wash contaminated clothing before re-use.

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)
sodium hydroxide	1310-73-2	1000	

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards	:	No SARA Hazards
SARA 313	:	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
The in one disease of this was		and reported in the following investories.

The ingredients of this product are reported in the following inventories:

TSCA : On or in compliance with the active portion of the TSCA inventory

TSCA list

_ . _

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.



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SECTION 16. OTHER INFORMATION



Full text of other abbreviations

US WEEL US WEEL / TWA USA. Workplace Environmental Exposure Levels (WEEL) 8-hr TWA

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System: IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG -International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL -Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL -International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Cooperation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT -



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Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA -Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG -United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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