

HE	HERITAGE SC						
Vers 1.0	sion	Revision Date: 07/23/2019		DS Number: 00057392757	This version replaces all previous versions.		
SEC	CTION 1	. IDENTIFICATION					
	Produc	t name	:	HERITAGE SC			
	Design	code.	:	A12705T			
	Produc	t Registration number	:	100-1539			
	Manufa	acturer or supplier's o	deta	ails			
	Compa	ny name of supplier	:	Syngenta Crop Pr	rotection, LLC		
	Addres	S	:	Post Office Box 1 Greensboro NC 2 United States of A	7419		
	Teleph	one	:	1 800 334 9481			
	Telefax		:	1 336 632 2192			
	Emerge	ency telephone	:	1 800 888 8372			
		mended use of the c	-		ons on use		
	Recom	mended use	:	Fungicide			
	Restric	tions on use	:	General Use Pest	icide		

### **SECTION 2. HAZARDS IDENTIFICATION**

### GHS classification in accordance with 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

### Components

Chemical name	CAS-No.	Concentration (% w/w)
Azoxystrobin	131860-33-8	22.9358
propane-1,2-diol	57-55-6	>= 10 - < 20
naphthalenesulfonic acid, dimethyl-, polymer with formaldehyde and me- thylnaphthalenesulfonic acid, sodium salt	9084-06-4	>= 1 - < 5

Actual concentration is withheld as a trade secret



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SECTION 4. FIRST AID MEASUR	RES	
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.



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			Cool closed co	ntainers exposed to fire with water spray.
	al protective equipment e-fighters	:	Wear full prote apparatus.	ctive clothing and self-contained breathing
SECTION	6. ACCIDENTAL RELE	AS	E MEASURES	
tive e	Personal precautions, protec- tive equipment and emer- gency procedures		Refer to protec	tive measures listed in sections 7 and 8.
Enviro	Environmental precautions		Do not flush in	r leakage or spillage if safe to do so. to surface water or sanitary sewer system. contaminates rivers and lakes or drains inform norities.
	Methods and materials for containment and cleaning up		absorbent mat vermiculite) an local / national Clean contami Clean with dete	e, and then collect with non-combustible erial, (e.g. sand, earth, diatomaceous earth, d place in container for disposal according to regulations (see section 13). nated surface thoroughly. ergents. Avoid solvents. pose 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	Control parame-	Basis
		(Form of	ters / Permissible	
		exposure)	concentration	
Azoxystrobin	131860-33-8	TWA	4 mg/m3	Syngenta
propane-1,2-diol	57-55-6	TWA	10 mg/m3	US WEEL
Engineering measures :	CONTROLS/F FOR THE MA PACKAGING APPLICATION	PERSONAL PRO NUFACTURE, F OF THE PROD	ENDATIONS FOR E DTECTION ARE INT FORMULATION AND UCT. FOR COMMER -FARM APPLICATIC ABEL.	ENDED CIAL



HERIT	HERITAGE SC					
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		protection me The extent of actual risks ir Maintain air o standards.	and/or segregation is the most reliable technical easure if exposure cannot be eliminated. these protection measures depends on the n use. concentrations below occupational exposure esary, seek additional occupational hygiene			
Pers	onal protective equipr	nent				
Resp	iratory protection	required. When worker	respiratory protective equipment normally rs are facing concentrations above the exposure st use appropriate certified respirators.			
Hand	I protection					
R	emarks	: No special pr	otective equipment required.			
Eye p	protection	: No special pr	otective equipment required.			
Skin	and body protection		otective equipment required. nd body protection based on the physical job			
Prote	ective measures	over the use When selecti	chnical measures should always have priority of personal protective equipment. ng personal protective equipment, seek professional advice.			

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

: suspension	
: off-white to yellow	
: chemical	
: No data available	
: 6.8 - 8.8 Concentration: 100 % w/v	
: No data available	
: No data available	
: Method: Pensky-Martens closed cup	
	<ul> <li>off-white to yellow</li> <li>chemical</li> <li>No data available</li> <li>6.8 - 8.8 Concentration: 100 % w/v</li> <li>No data available</li> <li>No data available</li> </ul>



пс					
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				does not flash	
ļ	Evapor	ation rate	:	No data available	2
	Flamma	ability (solid, gas)	:	No data available	9
		explosion limit / Upper bility limit	:	No data available	9
		explosion limit / Lower bility limit	:	No data available	
,	Vapor p	pressure	:	No data available	
ļ	Relative vapor density		:	No data available	9
I	Density		:	1.09 g/cm3 (77 °	F / 25 °C)
:	Solubili Solu	ty(ies) ıbility in other solvents	:	No data available	9
	Partitio octanol	n coefficient: n- /water	:	No data available	9
	Autoigr	nition temperature	:	887 °F / 475 °C	
I	Decom	position temperature	:	No data available	9
l	Explosi	ve properties	:	Not explosive	
	Oxidizir	ng properties	:	The substance o	r mixture is not classified as oxidizing.

## SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	None reasonably foreseeable.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reac- tions	:	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



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Skin contact Eye contact	
Acute toxicity	
Product:	
Acute oral toxicity	: LD50 (Rat): > 5,000 mg/kg Remarks: Based on data from similar materials
Acute inhalation toxicity	<ul> <li>LC50 (Rat): &gt; 6.32 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance or mixture has no acute inhal tion toxicity Remarks: Based on data from similar materials</li> </ul>
Acute dermal toxicity	<ul> <li>LD50 (Rat, male and female): &gt; 4,000 mg/kg Assessment: The substance or mixture has no acute derm toxicity Remarks: Based on data from similar materials</li> </ul>
Components:	
Azoxystrobin:	
Acute oral toxicity	: LD50 (Rat, male and female): > 5,000 mg/kg
Acute inhalation toxicity	: LC50 (Rat, female): 0.7 mg/l Exposure time: 4 h Test atmosphere: dust/mist
	LC50 (Rat, male): 0.9 mg/l Exposure time: 4 h Test atmosphere: dust/mist
Acute dermal toxicity	<ul> <li>LD50 (Rat, male and female): &gt; 2,000 mg/kg Assessment: The substance or mixture has no acute dern toxicity</li> </ul>
Skin corrosion/irritation	
Product:	
Species	: Rabbit
Result Remarks	<ul><li>No skin irritation</li><li>Based on data from similar materials</li></ul>
<u>Components:</u>	
Azoxystrobin:	
Species Result	: Rabbit : No skin irritation
	d, dimethyl-, polymer with formaldehyde and methylnaphtha-
lenesulfonic acid, sodiu Species	: Rabbit



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Resul	t	: Irritating to ski	in.
Serio	us eye damage/eye i	rritation	
Produ	<u>uct:</u>		
Speci		: Rabbit	
Resul Rema		: No eye irritatio	on a from similar materials
Rema		. Dased on date	
	oonents:		
-	ystrobin:		
Speci Resul		: Rabbit	
Resul	l	: No eye irritatio	ווכ
	halenesulfonic acid ulfonic acid, sodium		with formaldehyde and methylnaphtha-
Speci		: Rabbit	
Resul	t	: Irritation to ey	es, reversing within 21 days
Respi	iratory or skin sensi	tization	
<u>Produ</u>	<u>ict:</u>		
Speci		: Guinea pig	
Resul Rema			sensitization on laboratory animals. a from similar materials
Reilla	IIKS	. Based on data	
<u>Comp</u>	oonents:		
Azoxy	ystrobin:		
Speci		: Guinea pig	
Resul	t	: Did not cause	sensitization on laboratory animals.
Germ	cell mutagenicity		
<u>Comp</u>	oonents:		
Azoxy	ystrobin:		
	cell mutagenicity - sment	: Animal testing	did not show any mutagenic effects.
Carci	nogenicity		
Comp	oonents:		
Azoxy	ystrobin:		
Carcir ment	nogenicity - Assess-	: No evidence of	of carcinogenicity in animal studies.
IARC	No ingredie identified as	ent of this product pre	sent at levels greater than or equal to 0.1% is



ersior 0	n Revision 07/23/201			0S Number: 0057392757	This version replaces all previous version
0				this product pres	eent at levels greater than or equal to 0.1% is ogens.
N					ent at levels greater than or equal to 0.1% is d carcinogen by NTP.
Re	eproductive to	xicity			
<u>Co</u>	omponents:				
Re	zoxystrobin: eproductive toxic essment	city - As-	:	No toxicity to re	production
Re	epeated dose to	oxicity			
<u>Co</u>	omponents:				
	<b>zoxystrobin:</b> emarks		:	No adverse effe	ct has been observed in chronic toxicity tests
ECTI	ON 12. ECOLO	GICAL INFO	DRI	ATION	
Ec	cotoxicity				
	oduct:				
Тс	oxicity to fish		:	Exposure time:	nchus mykiss (rainbow trout)): 2.4 mg/l 96 h d on data from similar materials
	oxicity to daphni		:		magna (Water flea)): 0.47 mg/l
aq	uatic invertebra	ites		Exposure time: Remarks: Base	d on data from similar materials
	oxicity to algae/a ants	aquatic	:	ErC50 (Scened mg/l Exposure time:	esmus capricornutum (fresh water algae)): 2. 120 h
				Remarks: Base	d on data from similar materials
				mg/l End point: Grov	/th rate
				mg/l End point: Grov Exposure time:	/th rate
<u>Cc</u>	omponents:			mg/l End point: Grov Exposure time:	120 h
	omponents: zoxystrobin:			mg/l End point: Grov Exposure time:	/th rate 120 h
Az	-		:	mg/l End point: Grow Exposure time: Remarks: Base	nchus mykiss (rainbow trout)): 0.47 mg/l



rsion )	AGE SC Revision Date: 07/23/2019		9S Number: 0057392757	This version replaces all previous versions.
Toxicit plants	y to algae/aquatic	:	ErC50 (Pseudokir Exposure time: 96	chneriella subcapitata (green algae)): 2 mg/l 5 h
			NOEC (Pseudokir mg/l End point: Growth Exposure time: 96	
			ErC50 (Navicula p Exposure time: 96	belliculosa (Freshwater diatom)): 0.301 mg/l S h
M-Fac icity)	tor (Acute aquatic tox-	:	10	
Toxicit icity)	y to fish (Chronic tox-	:	NOEC (Oncorhyn Exposure time: 28	chus mykiss (rainbow trout)): 0.16 mg/l 3 d
			NOEC (Pimephale Exposure time: 33	es promelas (fathead minnow)): 0.147 mg/l 3 d
	y to daphnia and other c invertebrates (Chron- city)	:	NOEC (Daphnia r Exposure time: 21	nagna (Water flea)): 0.044 mg/l I d
			NOEC (Americam Exposure time: 28	nysis): 0.0095 mg/l 3 d
M-Fac toxicity	tor (Chronic aquatic /)	:	10	
Toxicit	y to microorganisms	:	IC50 (Pseudomor Exposure time: 6	nas putida): > 3.2 mg/l h
Persis	tence and degradabili	ity		
<u>Comp</u>	onents:			
•	<b>strobin:</b> gradability	:	Result: Not readily	y biodegradable.
Stabilit	ty in water	:	Degradation half I Remarks: The sul	ife: 214 d ostance is stable in water.
Bioace	cumulative potential			
Comp	onents:			
-	strobin: cumulation	:	Remarks: Does no	ot bioaccumulate.



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Mobi	lity in soil			
Com	ponents:			
Azox	ystrobin:			
	bution among environ- al compartments	: R	emarks: Azo	oxystrobin has low to very high mobility in soil.
Stabil	ity in soil	P		ne: 80 d issipation: 50 % (DT50) iduct is not persistent.
Othe	r adverse effects			
Com	oonents:			
Azox	ystrobin:			
	Its of PBT and vPvB ssment	la	ting and tox	e is not considered to be persistent, bioaccumu ic (PBT). This substance is not considered to be at and very bioaccumulating (vPvB).

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

## SECTION 14. TRANSPORT INFORMATION

International Regulations		
<b>UNRTDG</b> UN number Proper shipping name	:	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
		N.O.S. (AZOXYSTROBIN)
Class	:	9
Packing group	:	III
Labels	:	9
<b>IATA-DGR</b> UN/ID No.	:	UN 3082



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	Proper	shipping name	:	Environmentall (AZOXYSTRC	y hazardous substance, liquid, n.o.s. BIN)
	Class		:	9	
	Packin	g group	:	III	
	Labels	·	:	Class 9 - Misce	ellaneous dangerous substances and articles
	Packin aircraft	g instruction (cargo )	:	964	
	Packin ger airo	g instruction (passen- craft)	:	964	
	Enviror	nmentally hazardous	:	yes	
	IMDG-	Code			
	UN nur	mber	:	UN 3082	
	Proper	shipping name	:	ENVIRONMEN N.O.S. (AZOXYSTRO	ITALLY HAZARDOUS SUBSTANCE, LIQUID,
	Class			9	DIN)
		g group	:	9 III	
	Labels		:	9	
	EmS C		:	5 F-A, S-F	
		pollutant	:	ves	
	manne	pondian	•	y03	

### 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 : 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. Harmful if inhaled. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Avoid breathing spray mist. Avoid breathing vapors. 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.



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### EPCRA - Emergency Planning and Community Right-to-Know

### **CERCLA Reportable Quantity**

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

\*: Calculated RQ exceeds reasonably attainable upper limit.

### 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 Ha	azards
SARA 313	known CAS	I does not contain any chemical components with numbers that exceed the threshold (De Minimis) els established by SARA Title III, Section 313.
The ingredients of this proc	are reported	in the following inventories:
TSCA	On or in corr inventory	pliance with the active portion of the TSCA

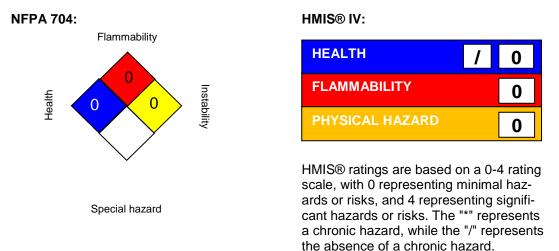
### **TSCA** list

No substances are subject to a Significant New Use Rule.

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

### **SECTION 16. OTHER INFORMATION**

Further information



### Full text of other abbreviations



US WEEL / TWA

US WEEL

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8-hr TWA

USA. Workplace Environmental Exposure Levels (WEEL)

AICS - Australian Inventory of Chemical Substances; 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 Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - 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; 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 Material 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.

US / Z8