

Version	
1.1	

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This version replaces all previous versions.

### **SECTION 1. IDENTIFICATION**

Product name	: MEDALLION FUNGICIDE
Design code	: A17856B
Product Registration number	: 31528
Other means of identification	: No data available

#### Manufacturer or supplier's details

Company name of supplier Address	:	Syngenta Canada Inc. 140 Research Lane, Research Park Guelph ON N1G 4Z3 Canada		
Telephone Telefax	:	1-87-SYNGENTA (1-877-964-3682) 1-519-823-0504		
E-mail address	:			
Emergency telephone num- ber	:	1-800-327-8633 (FAST MED)		
Recommended use of the chemical and restrictions on use				

Recommended use : Fungicide

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

#### GHS classification in accordance with the Hazardous Products Regulations

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

Chemical name	Common Name/Synonym	CAS-No.	Concentration (% w/w)
fludioxonil (ISO)	fludioxonil (ISO)	131341-86-1	11.7925
propane-1,2-diol	propane-1,2-diol	57-55-6	>= 5 - < 10 *
triethylamine	triethylamine	121-44-8	>= 0 - < 0.1 *

\* Actual concentration or concentration range is withheld as a trade secret

#### SECTION 4. FIRST AID MEASURES



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Gene	ral advice	you when ca	duct container, label or Safety Data Sheet with lling the emergency number, a poison control vsician, or going for treatment.		
lf inha	aled	If breathing is tion. Keep patient	tim to fresh air. s irregular or stopped, administer artificial respira- warm and at rest. ian or poison control centre immediately.		
In cas	se of skin contact	: Take off all c Wash off imr If skin irritatio	ontaminated clothing immediately. nediately with plenty of water. on persists, call a physician. ninated clothing before re-use.		
In cas	se of eye contact	: Rinse immed for at least 1 Remove con	<ul> <li>Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.</li> <li>Remove contact lenses.</li> <li>Immediate medical attention is required.</li> </ul>		
lf swa	allowed		seek medical advice immediately and show this label.		
	important symptoms ffects, both acute and ed	: Nonspecific	s known or expected.		
	s to physician	: There is no s Treat sympto	pecific antidote available. matically.		

### **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media	:	Extinguishing media - small fires Use water spray, alcohol-resistant foam, dry chemical or car- bon 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 components, fire will produce dense black smoke containing hazardous prod- ucts 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. Cool closed containers exposed to fire with water spray.
Special protective equipment for firefighters	:	

### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- :	Refer to protective measures listed in sections 7 and 8.
tive equipment and emer-	
gency procedures	



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**Environmental precautions** : Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities. Methods and materials for Contain spillage, and then collect with non-combustible ab-: sorbent material, (e.g. sand, earth, diatomaceous earth, vercontainment and cleaning up miculite) and place in container for disposal according to local / national regulations (see section 13). Clean contaminated surface thoroughly. Clean with detergents. Avoid solvents. Retain and dispose 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

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
fludioxonil (ISO)	131341-86-1	TWA	5 mg/m3	Syngenta
		TWA (Inhal- able particu- late matter)	1 mg/m3	ACGIH
propane-1,2-diol	57-55-6	TWA (Va- pour and aerosols)	50 ppm 155 mg/m3	CA ON OEL
		TWA (aero- sol)	10 mg/m3	CA ON OEL
triethylamine	121-44-8	TWA	1 ppm 4.1 mg/m3	CA AB OEL
		STEL	3 ppm 12 mg/m3	CA AB OEL
		TWA	0.5 ppm	CA BC OEL
		STEL	1 ppm	CA BC OEL
		TWAEV	0.5 ppm	CA QC OEL
		STEV	1 ppm	CA QC OEL
		TWA	0.5 ppm	ACGIH
		STEL	1 ppm	ACGIH

#### Components with workplace control parameters



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Engineering measures :		THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION AND PACKAGING OF THE PRODUCT. FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS 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.
		Maintain air concentrations below occupational exposure standards. Where necessary, seek additional occupational hygiene ad- vice.
Personal protective equipm	nent	
Respiratory protection	:	No personal respiratory protective equipment normally re- quired. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
Hand protection		innit they must use appropriate certified respirators.
Remarks Eye protection Skin and body protection	:	No special protective equipment required. No special protective equipment required. No special protective equipment required. Select skin and body protection based on the physical job requirements.
Protective measures	:	The use of technical measures should always have priority over the use of personal protective equipment. When selecting personal protective equipment, seek appro- priate professional advice.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: suspension
Colour	: beige grey to grey green
Odour	: sweetish
Odour Threshold	: No data available
рН	: 5 - 9 Concentration: 1 % w/v
Melting point/range	: No data available



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Boiling point/boiling range	:	No data available
Flash point	:	Method: Pensky-Martens 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
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	No data available
Relative vapour density	:	No data available
Density	:	1.06 g/cm3 (20 °C)
Solubility(ies) Water solubility	:	No data available
Solubility in other solvents	:	No data available
Partition coefficient: n- octanol/water	:	No data available
Auto-ignition temperature	:	610 °C
Decomposition temperature	:	No data available
Viscosity Viscosity, dynamic		77 - 233 mPa.s ( 20 °C)
viscosity, dynamic	•	64 - 196 mPa.s ( 40 °C)
Viscosity, kinematic	:	No data available
Explosive properties	:	Not explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.
Surface tension	:	39.4 mN/m, 0.1 % w/v, 20 °C
Particle size	:	No data available

## SECTION 10. STABILITY AND REACTIVITY

Reactivity

: None reasonably foreseeable.



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

## SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely route Ingestion Inhalation Skin contact Eye contact	s of	exposure
Acute toxicity		
Product: Acute oral toxicity	:	LD50 (Rat, female): 5,000 mg/kg
Acute inhalation toxicity	:	LC50 (Rat, male and female): > 2.59 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance or mixture has no acute inhala- tion toxicity
Acute dermal toxicity	:	LD50 (Rat, male and female): > 5,000 mg/kg
Components:		
fludioxonil (ISO):		
Acute oral toxicity	:	LD50 (Rat, male and female): > 5,000 mg/kg
Acute inhalation toxicity	:	LC50 (Rat, male and female): > 2.6 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance or mixture has no acute inhala- tion toxicity
Acute dermal toxicity	:	LD50 (Rat, male and female): > 2,000 mg/kg Assessment: The substance or mixture has no acute dermal toxicity
triethylamine:		
Acute oral toxicity	:	LD50 (Rat): 730 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): 7.22 mg/l Exposure time: 4 h Test atmosphere: vapour
Acute dermal toxicity	:	LD50 (Rat): 580 mg/kg



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#### Skin corrosion/irritation

#### Product:

Species:RabbitResult:No skin irritation

### Components:

### fludioxonil (ISO):

Species	:	Rabbit
Result	:	No skin irritation

#### triethylamine:

Species	
Result	

Rabbit Corrosive after 3 minutes or less of exposure

#### Serious eye damage/eye irritation

#### Product:

Species	:	Rabbit
Result	:	No eye irritation

:

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#### **Components:**

#### fludioxonil (ISO):

Species	:	Rabbit
Result	:	No eye irritation

#### triethylamine:

Result

: Risk of serious damage to eyes.

#### Respiratory or skin sensitisation

#### Product:

Test Type	:	Buehler Test
Species	:	Guinea pig
Result	:	Did not cause sensitisation on laboratory animals.

#### **Components:**

fludioxonil (ISO):	
Species Result	<ul><li>Guinea pig</li><li>Did not cause sensitisation on laboratory animals.</li></ul>



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Germ cell mutagenicity		
<u>Components:</u>		
fludioxonil (ISO): Germ cell mutagenicity - Assessment	:	Animal testing did not show any mutagenic effects.
<b>triethylamine:</b> Germ cell mutagenicity - Assessment	:	In vitro tests did not show mutagenic effects
Carcinogenicity		
Components:		
fludioxonil (ISO): Carcinogenicity - Assess- ment	:	No evidence of carcinogenicity in animal studies.
Reproductive toxicity		
<u>Components:</u>		
fludioxonil (ISO): Reproductive toxicity - As- sessment	:	No toxicity to reproduction
<b>triethylamine:</b> Reproductive toxicity - As- sessment	:	No toxicity to reproduction
STOT - single exposure		
Components:		
<b>triethylamine:</b> Assessment	:	The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.

## SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity		
<u>Product:</u> Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 5.4 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 30 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	ErC50 (Raphidocelis subcapitata (freshwater green alga)): 5.4 mg/l Exposure time: 96 h



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		NOEC (Raphidocelis subcapitata (freshwater green alga)): 1 mg/l End point: Growth rate Exposure time: 96 h
		EC10 (Raphidocelis subcapitata (freshwater green alga)): 2.9 mg/l End point: Growth rate Exposure time: 96 h
Components:		
fludioxonil (ISO):		
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 0.23 mg/l Exposure time: 96 h
		LC50 (Pimephales promelas (fathead minnow)): 0.7 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 0.4 mg/l Exposure time: 48 h
		EC50 (Americamysis): 0.27 mg/l Exposure time: 96 h
Toxicity to algae/aquatic plants	:	ErC50 (Raphidocelis subcapitata (freshwater green alga)): 0.259 mg/l Exposure time: 96 h
		EC10 (Raphidocelis subcapitata (freshwater green alga)): 0.077 mg/l End point: Growth rate Exposure time: 96 h
		ErC50 (Skeletonema costatum (marine diatom)): 0.43 mg/l Exposure time: 96 h
		NOEC (Skeletonema costatum (marine diatom)): 0.14 mg/l End point: Growth rate Exposure time: 96 h
Toxicity to fish (Chronic tox- icity)	:	NOEC (Oncorhynchus mykiss (rainbow trout)): 0.04 mg/l Exposure time: 28 d
		NOEC (Pimephales promelas (fathead minnow)): 0.018 mg/l Exposure time: 116 d
Toxicity to daphnia and other aquatic invertebrates (Chron-		NOEC (Daphnia magna (Water flea)): 0.035 mg/l Exposure time: 21 d
ic toxicity)		NOEC (Americamysis): 0.018 mg/l Exposure time: 28 d



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Toxici	ty to microorganisms	: EC50 (activated sludge): > 1,000 mg/l Exposure time: 3 h
triethy	ylamine:	
-	ty to fish	: LC50 (Oncorhynchus mykiss (rainbow trout)): 36 mg/l Exposure time: 96 h
Toxici plants	ty to algae/aquatic	: ErC50 (Raphidocelis subcapitata (freshwater green alga)): 9.8 mg/l Exposure time: 72 h
Persis	stence and degradabi	lity
<u>Comp</u>	onents:	
fludio	xonil (ISO):	
Biode	gradability	: Result: Not readily biodegradable.
Stabili	ty in water	: Degradation half life: 450 - 700 d Remarks: Persistent in water.
triethy	ylamine:	
Biode	gradability	: Result: Readily biodegradable.
Bioac	cumulative potential	
<u>Comp</u>	onents:	
fludio	xonil (ISO):	
Bioaco	cumulation	: Remarks: Does not bioaccumulate.
	on coefficient: n- bl/water	: log Pow: 4.12 (25 °C)
Mobil	ity in soil	
Comp	onents:	
Distrib menta	xonil (ISO): oution among environ- I compartments ty in soil	<ul><li>Remarks: immobile</li><li>Dissipation time: 14 d</li></ul>
		Percentage dissipation: 50 % (DT50) Remarks: Product is not persistent.
Other	adverse effects	
Comp	onents:	
fludio	xonil (ISO):	
	ts of PBT and vPvB	: This substance is not considered to be persistent, bioaccumu- lating and toxic (PBT). This substance is not considered to be



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		very persistent and very bioaccumulating (vPvB).			
trieth	ylamine:				
	Its of PBT and vPvB ssment	: This substance is not considered to be persistent, bioaccumu- lating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).			
SECTION	13. DISPOSAL CONS	ERATIONS			
Dispo	osal methods				
Wast	e from residues	<ul> <li>Refer to the product label for specific disposal/recycling in mation</li> <li>Do not contaminate ponds, waterways or ditches with che cal or used container.</li> <li>Do not dispose of waste into sewer.</li> </ul>	mi-		
		Where possible recycling is preferred to disposal or incine tion. If recycling is not practicable, dispose of in compliance wit			
Conta	aminated packaging	<ul> <li>local regulations.</li> <li>Refer to the product label for specific disposal/recycling information</li> <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

UNRTDG		
UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (FLUDIOXONIL)
Class	:	9
Packing group	:	III
Labels	:	9
IATA-DGR		
UN/ID No.	:	UN 3082
Proper shipping name	:	Environmentally hazardous substance, liquid, n.o.s. (FLUDIOXONIL)
Class	:	9
Packing group	:	III
Labels	:	Miscellaneous
Packing instruction (cargo aircraft)	:	964
Packing instruction (passen- ger aircraft)	:	964
Environmentally hazardous	:	yes



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## IMDG-Code

UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (FLUDIOXONIL)
Class	:	9
Packing group	:	III
Labels	:	9
EmS Code	:	F-A, S-F
Marine pollutant	:	ves

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

Not applicable for product as supplied.

### **National Regulations**

<b>TDG</b> UN number : Proper shipping name :	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (FLUDIOXONIL)
Class Packing group Labels ERG Code Marine pollutant Remarks	9 III 9 171 yes(FLUDIOXONIL) Class 9 Exemption from Part 3, Documentation, and Part 4, Dangerous Goods Safety Marks, if transported solely on land by road vehicle or railway vehicle. 1.45.1. SOR/2008-34

#### 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**

Warning, contains the allergen 1,2-benzisothiazolin-3-one and 2-bromo-2-nitropropane-1,3-diol Read the label, authorised under the Pest Control Products Act, prior to using or handling the pest control product

This chemical is a pest control product registered by Health Canada Pest Management Regulatory Agency and is subject to certain labelling requirements under the Pest Control Products Act. These requirements differ from the classification criteria and hazard information required for GHS-consistent safety data sheets. The following is the hazard information required on the pest control product label: There are Canada-specific environmental requirements for handling, use, and disposal of this pest control product that are indicated on the label.

NPRI Components	: triethylamine ethyl acetate ethanediol
The components of th	is product are reported in the following inventories:
DSL	: This product contains the following components that are not



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on the Canadian DSL nor NDSL. fludioxonil (ISO)

#### **Canadian lists**

No substances are subject to a Significant New Activity Notification.

#### SECTION 16. OTHER INFORMATION

#### Full text of other abbreviations

ACGIH CA AB OEL		USA. ACGIH Threshold Limit Values (TLV) Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
CA BC OEL CA ON OEL	:	Canada. British Columbia OEL Ontario Table of Occupational Exposure Limits made under the Occupational Health and Safety Act.
CA QC OEL	:	Québec. Regulation respecting occupational health and safe- ty, Schedule 1, Part 1: Permissible exposure values for air- borne contaminants
ACGIH / TWA	:	8-hour, time-weighted average
ACGIH / STEL	:	Short-term exposure limit
CA AB OEL / TWA	:	8-hour Occupational exposure limit
CA AB OEL / STEL	:	15-minute occupational exposure limit
CA BC OEL / TWA	:	8-hour time weighted average
CA BC OEL / STEL	:	
CA ON OEL / TWA		Time-Weighted Average Limit (TWA)
CA QC OEL / TWAEV	:	Time-weighted average exposure value
CA QC OEL / STEV	:	Short-term exposure value

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation: DSL - Domestic Substances List (Canada): ECx - Concentration associated with x% response; 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; 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; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; 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 Substanc-



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es; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; 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; WHMIS - Workplace Hazardous Materials Information System

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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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