

ROLF C. HAGEN INC., 20500 TRANSCANDA HWY, BAIE D'URFÉ, QUEBEC, H9X 0A2 CANADA

Fluval	
Plant Grow	
A8359, A8360	

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Section 1. Product and company Information		
Product Name	Fluval Plant Grow	
Product Code	A8359, A8360	
Recommended Use		
and restrictions on	Aquarium plant fertilizer.	
Use		
Supplier	Rolf C. Hagen Inc., 20 500 Trans Canada Hwy, Baie d'Urfé, H9X 0A2	
Emergency		
Telephone Number	Call your local poison control center	

Section 2. Hazard Iden	tification
Classification	Skin Irritant (Category 3)
GHS Label Elements	Hazard Pictograms
	None
	Signal Word
	Warning
	Hazard Statements
	Cause mild skin irritation
	Precautionary Statement(s)
	If skin irritation occurs: Get medical advice/ attention
Other Hazards	Not classified, No Hazard

Section 3. Composition and Information on Ingredients				
Chemic	al Name	CAS #	Concentration (%)	EC #
Acetic a	acid	64-19-7	0.1-1.0	200-580-7
Notes Concentrations are expressed in % weight/weight.				

Section 4. First-Aid Measures		
Inhalation	Supply fresh air. Rinse mouth and nose with water. If symptoms develop seek	
	medical attention.	
Skin Contact	May cause mild skin irritation, flush with plenty of water and soap. If symptoms	
	develop seek medical attention.	
Eye Contact	Immediately flush with copious quantities of water for at least 15 minutes	
	holding lids apart to ensure flushing of the entire surface. Remove contact	
	lenses if present. If symptoms develop seek medical attention.	
Ingestion	Do NOT induce vomiting. Rinse mouth with water. Have conscious person drink	
	several glasses of water. Never give anything by mouth if the victim is	
	unconscious or convulsing. If vomiting occurs spontaneously, keep victim's head	



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	lowered (forward) to reduce risk of aspiration. Seek medical attention.
Most Important	If inhaled: No data available.
Symptoms and	If on skin: Estimated to be a mild skin irritant.
Effects, Acute and	If in eyes: No data available
Delayed	If swallowed: No data available.
Immediate Medical	Special Instructions: For any symptoms, consult with physician.
Attention and	Notes to physician: No data available.
Special Treatment	Specific treatments: No data available.
	Protection of first aiders: No action shall be taken involving any personal risk or
	without suitable training. Direct contact with the product should be prevented
	or minimized. Wear gloves in a suitable material such as PVC, Neoprene or
	Natural Rubber.

Section 5. Fire-Fighting Measures		
Suitable Extinguishing	Use extinguishing measures that are appropriated to local circumstances and	
Media	to the surrounding environment.	
Unsuitable	No data available.	
Extinguishing Media	NO UALA AVAIIADIE.	
Specific Hazards		
Arising from the	No data available.	
Product		
Special Protective		
Equipment and	Wear self-contained breathing apparatus for firefighting if necessary.	
Precautions for Fire-		
Fighters		

Section 6. Accidental Release Measures		
Personal Precautions, Protective Equipment,	Recommended: Safety glasses	
and Emergency Procedures	Rubber gloves and other protective clothing, to protect skin.	
Environmental Precautions	Do not let product enter drains.	
Methods for	Recycle if possible; if not, dike and absorb spill with inert materials such as	
Containment and	clays, sand, earth, or other commercially available dry sweeping compound.	
Cleaning Up	Must be disposed of in accordance with local and national regulation.	

Section 7. Handling and Storage	
Precautions for Safe	The workplace and work methods shall be organized in such a way that direct
Handling	contact with the product is prevented or minimized. Use protective equipment,
	see section IV. Please observe the instructions regarding permeability and



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	breakthrough time which are provided by supplier of the gloves. Also, consider the specific local conditions under which the product is used such as the danger of cuts, abrasion and the contact time. Material should be transferred in ways that do not create mists or aerosols. Wash hands after handling.
Conditions for Safe	Store at temperatures > 0 °C < 60 °C.
Storage	Keep containers closed when not in use.

Section 8. Exposure Controls and Personal Protection							
Control Parameters							
	ACGIH	ACGIH [®] TLV [®]		OSHA PEL		AIHA® WEEL [™]	
Chemical Name	TWA	STEL	TWA	STEL	8-hr TWA	Short-term TWA [C]	
Acetic acid	10 ppm	15 ppm	10 ppm 25 mg/m3	15 ppm 37 mg/m3	Not available	40 ppm	
Notes	Consult local	Consult local authorities for provincial or state exposure limits.					
Appropriate Engineering	General vent	General ventilation is recommended.					
Controls							
Individual	Eye/Face Pro	Eye/Face Protection: Tightly fitted safety glasses.					
Protection	Skin Protecti	Skin Protection: Rubber gloves and protective clothing.					
Measures	• •	Respiratory Protection: Dust mask. In the absence of local exhaust ventilation approved respirator are recommended.					

Section 9. Physical and Chemical Properties	
Appearance, Physical State and Colour	Liquid, opaque, red
Odour	Vinegar-like
Odour Threshold	No information available
рН	4.0-5.0
Melting Point and Freezing Point	Data not available
Initial Boiling Point and Boiling Range	Data not available
Flash Point	Data not available
Evaporation Rate	No information available
Flammability (solid, gas)	No information available
Upper and Lower Flammability or Explosive Limit	No information available
Vapour Pressure	No information available
Vapour Density (air = 1)	No information available
Relative Density (water = 1)	1.032 - 1.037
Solubility in Water	Soluble in water
Solubility in Other Liquids	No information available
Partition Coefficient, n-Octanol / Water	No information available
Auto-Ignition Temperature	No information available



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Decomposition Temperature	No information available	
Viscosity	Less than 2.5 cP	

Section 10. Stability and Reactivity		
Reactivity	Product does not polymerize	
Chemical Stability	Stable under recommended storage conditions.	
Possibility of	None.	
Hazardous Reactions	None.	
Conditions to Avoid	None.	
Incompatible	None.	
Materials	None.	
Hazardous		
Decomposition	None.	
Products		

Section 11. Toxicologic	al Information	
Likely Routes of	Skin contact.	
Exposure	Skill contact.	
Acute Toxicity		
LC50	No data found for this product.	
LD50 (oral)	No data found for this product.	
	Acetic Acid CAS 64-19-7	
	LC₅₀ rat: 4,653 ppm (4H)	
	LC ₅₀ mouse: 2,813 ppm (4H)	
LD50 (dermal)	No data found for this product.	
TWA	No data found for this product.	
Skin Corrosion /	Estimated to be a mild skin irritant (Category 3)	
Irritation	Estimated to be a mild skill initialit (Category S)	
Serious Eye Damage	Not estimated to cause eye damage or irritation	
/ Irritation	Not estimated to cause eye damage of initiation	
STOT (Specific Target		
Organ Toxicity) -	Not estimated to cause specific organ toxicity – single exposure	
Single Exposure		
Aspiration Hazard	No data found for this product.	
STOT (Specific Target		
Organ Toxicity) -	Not estimated to cause specific organ toxicity – repeated exposure	
Repeated Exposure		
Respiratory and/or	Not estimated to cause respiratory or skin sensitization.	
Skin Sensitization	Not estimated to cause respiratory of skill selisitization.	
Other	To the best of our knowledge, the chemical physical and toxicological properties	



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	have not been thoroughly investigated.				
Carcinogenicity	Carcinogenicity				
Chemical Name	IARC	ACGIH®	OSHA	NTP	
Acetic Acid	No data found	No data found	No data found	No data found	
ALELIC ALIU	for this product.	for this product.	for this product.	for this product.	
Reproductive Toxicity					
Development of	Not established				
Offspring					
Sexual Function and	Not established				
Fertility	Not established				
Effects on or via	Not established				
Lactation	NULESLADIISTIEU				
Germ Cell	Not established				
Mutagenicity					
Interactive Effects	Not established				

Section 12. Ecological Information		
Ecotoxicity	No data found for this product.	
Persistence and	No data found for this product	
Degradability	No data found for this product.	
Bioaccumulative	No data found for this product	
Potential	No data found for this product.	
Mobility in Soil	No data found for this product.	
Other Adverse Effects	No data found for this product.	

Section 13. Disposal Considerations		
Disposal	Absorb in inert absorbent and send for disposal.	
Recommendations	Dispose of in accordance with federal, provincial and local regulations.	
Disposal of damaged packaging	Follow all SDS and label precautions even after container is emptied.	

Section 14. Transport Information				
Regulation	UN No.	Proper Shipping Name	Transport Hazard Class(es)	Packing Group
Canada TDG	Not applicable (PIN and PG)	Not regulated	Not regulated	Not regulated
US DOT	Not applicable (PIN and PG)	Not regulated	Not regulated	Not regulated
ΙΑΤΑ	Not applicable (PIN and PG)	Not regulated	Not regulated	Not regulated
IMDG	Not applicable	Not regulated	Not regulated	Not regulated



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(PIN and PG)
Special Precautions None

Section 15. Regulatory	y Information
Safety, Health and	Canada
Environmental	
Regulations	Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)
	All ingredients are listed on the DSL list.
	USA
	Toxic Substances Control Act (TSCA) Section 8(b) All ingredients are listed
	California Proposition 65: This product does not contain any chemical known to State of California to cause cancer, birth defects, or any other reproductive harm.

Section 16. Other information								
HMIS RATINGS Not available			NFPA RATINGS Not available					
	1	HEALTH			0	HEALTH HAZARD		
	0	FLAMMABILITY			0	FIRE HAZARD		
	0	PHYSICAL HAZARD			0	REACTIVITY		
		PERSONAL PROTECTION				SPECIFIC HAZARD		

Key to abbreviations

ACGIH[®] = American Conference of Governmental Industrial Hygienists. TLV[®] = Threshold Limit Value. TWA = Time-Weighted Average. STEL = Short-term Exposure Limit. OSHA = US Occupation Safety and Health Administration. PEL = Permissible Exposure Limits. AIHA[®] = AIHA Guideline Foundation. WEEL[™] = Workplace Environmental Exposure Limit. IARC = International Agency for Research on Cancer. NTP = National Toxicology Program.

While the company believes the data set forth herein are accurate as the date hereof, the company makes no warranty with respect thereto and expressly disclaims all liability for reliance thereon. Such data are offered solely for your consideration and verification.

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