

## Syngenta Crop Protection, LLC Post Office Box 18300 Greensboro, NC 27419

In Case of Emergency, Call 1-800-888-8372

## **1. PRODUCT IDENTIFICATION**

Product Name:	SUBDUE GR	Product No.:	A9603A
EPA Signal Word:	Caution		
Active Ingredient(%):	Mefenoxam (1.0%)	CAS No.:	70630-17-0 & 69516-34-3
Chemical Name:	(R,S)-2-[(2,6-dimethylphenyl)-methoxyacetylamino]-prop	pionic acid meth	yl ester
Chemical Class:	Phenylamide Fungicide		

EPA Registration Number(s): 100-794

Section(s) Revised: 3

## 2. HAZARDS IDENTIFICATION

#### Health and Environmental

Toxic if inhaled. May be harmful in contact with skin. Causes mild eye and skin irritation.

Hazardous Decomposition Products

None known.

**Physical Properties** 

Appearance: Reddish-brown granules

Odor: Sweet aromatic

Unusual Fire, Explosion and Reactivity Hazards

During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Material	OSHA PEL	ACGIH TLV	Other	NTP/IARC/OSHA Carcinogen
Crystalline Silica, Quartz and Cristobalite	10 mg/m <sup>3</sup> /(%SiO2+2) (respirable dust)	0.025 mg/m <sup>3</sup> (respirable silica)	0.05 mg/m <sup>3</sup> (respirable dust) **	IARC 1; ACGIH 1
Attapulgite Clay	Not Established	Not Established	2 mg/m <sup>3</sup> TWA *	IARC 2B
n-Methylpyrrolidone (< 5%)	Not Established	Not Established	10 ppm TWA, Skin ****	No
Mefenoxam (1.0%)	Not Established	Not Established	10 mg/m <sup>3</sup> TWA ***	No
* recommended by ma	anufacturer			
** recommended by NI	OSH			
*** Syngenta Occupation	nal Exposure Limit (OEL)			
**** Recommended by A Hygiene Associatior				

Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications. Syngenta Hazard Category: C, S

## **4. FIRST AID MEASURES**

Product Name: SUBDUE GR

Have the product container, label or Material Safety Data Sheet with you when calling Syngenta (800-888-8372), a poison contol center or doctor, or going for treatment.

Ingestion:	If swallowed: Call Syngenta (800-888-8372), a poison control center or doctor immediately for treatment advice. Have the person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so after calling 800-888-8372 or by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
Eye Contact:	If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eye. Call Syngenta (800-888-8372), a poison control center or doctor for treatment advice.
Skin Contact:	If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call Syngenta (800-888-8372), a poison control center or doctor for treatment advice.
Inhalation	If inhaled. Move person to fresh air. If person is not breathing call 911 or an ambulance, then give artificial

Inhalation: If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call Syngenta (800-888-8372), a poison control center or doctor for further treatment advice.

Notes to Physician

There is no specific antidote if this product is ingested.

Treat symptomatically.

Medical Condition Likely to be Aggravated by Exposure

None known.

## **5. FIRE FIGHTING MEASURES**

#### Fire and Explosion

Flash Point (Test Method):	203°F (Pensky-Martens CC)	
Flammable Limits (% in Air):	Lower: Not Applicable	Upper: Not Applicable
Autoignition Temperature:	500°F	
Flammability:	Not Applicable	

#### Unusual Fire, Explosion and Reactivity Hazards

During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

In Case of Fire

Use dry chemical, foam or CO2 extinguishing media. Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion. Prevent use of contaminated buildings, area, and equipment until decontaminated. Water runoff can cause environmental damage. If water is used to fight fire, dike and collect runoff.

## 6. ACCIDENTAL RELEASE MEASURES

#### In Case of Spill or Leak

Control the spill at its source. Contain the spill to prevent from spreading or contaminating soil or from entering sewage and drainage systems or any body of water. Clean up spills immediately, observing precautions in Protective Equipment Section. Sweep up material and place in a compatible disposal container. Scrub area with hard water detergent (e.g. commercial products such as Tide, Joy, Spic and Span). Pick up wash liquid with additional absorbent and place into compatible disposal container. Once all material is cleaned up and placed in a disposal container, seal container and arrange for disposition.

## 7. HANDLING AND STORAGE

Store the material in a well-ventilated, secure area out of reach of children and domestic animals. Do not store food, beverages or tobacco products in the storage area. Prevent eating, drinking, tobacco use, and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Product Name: SUBDUE GR

# THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION AND PACKAGING OF THIS PRODUCT.

#### FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.

Ingestion:	Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.
Eye Contact:	Where eye contact is likely, use dust-proof chemical goggles.
Skin Contact:	Where contact is likely, wear chemical-resistant gloves (such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyethylene, polyvinyl chloride [PVC] or Viton), coveralls, socks and chemical-resistant footwear.
Inhalation:	A particulate filter respirator may be necessary until effective engineering controls are installed to comply with occupational exposure limits. Use a NIOSH certified respirator with any R, P or HE filter.
	Use a self-contained breathing apparatus in cases of emergency spills, when exposure levels are unknown, or under any circumstances where air-purifying respirators may not provide adequate protection.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Reddish-brown granules
Odor:	Sweet aromatic
Melting Point:	Not Available
Boiling Point:	Not Applicable
Specific Gravity/Density:	38 lbs/ft <sup>3</sup>
pH:	7 - 9 (1% solution in H2O @ 77°F (25°C))
Solubility in H2O	
Mefenoxam:	26 g/l @ 77°F (25°C)
Vapor Pressure	
Mefenoxam:	2.5 x 10(-5) mmHg @ 77°F (25°C)
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## **10. STABILITY AND REACTIVITY**

Stable under normal use and storage conditions.
Will not occur.
None known.
None known.
None known.

## **11. TOXICOLOGICAL INFORMATION**

Acute Toxicity/Irritation Studies (Finished Product)

Derrueli	Oral (LD50 Rabbit) :	> 5000  mg/kg body weight
Dermal:	Dermal (LD50 Rat) :	> 2000 mg/kg body weight
Inhalation:		
	Inhalation (LC50 Rat) :	0.776 mg/l air - 4 hours
Eye Contact:	Minimally Irritating (Rabbit)	
Skin Contact:	Slightly Irritating (Rabbit)	
Skin Sensitization:	Not a Sensitizer (Guinea Pig)	

## Reproductive/Developmental Effects Mefenoxam: None observed.

Ingestion:

#### Chronic/Subchronic Toxicity Studies

Mefenoxam: Liver effects at high dose animal tests.

#### Carcinogenicity

Mefenoxam: None observed.

#### Other Toxicity Information

None

#### Toxicity of Other Components

#### Attapulgite Clay

Repeated and prolonged inhalation may cause delayed injury to lungs (silicosis). Exposure may result in shortness of breath, cough, and sputum production.

#### Crystalline Silica, Quartz and Cristobalite

Chronic inhalation exposure to crystalline silica is known to cause silicosis and pulmonary fibrosis in humans. Experimental animals exposed to crystalline silica developed respiratory tract cancers.

#### n-Methylpyrrolidone (< 5%)

Harmful if absorbed through the skin. May cause respiratory tract irritation. Repeated or prolonged exposure may cause drying and cracking of the skin. Possible developmental hazard.

#### Target Organs

Active Ingredients Mefenoxam: Liver <u>Inert Ingredients</u> Attapulgite Clay: Respiratory tract Crystalline Silica, Quartz and Cristobalite: Respiratory tract n-Methylpyrrolidone: Eye, skin

#### **12. ECOLOGICAL INFORMATION**

#### Ecotoxicity Effects

Mefenoxam: Fish (Rainbow Trout) 96-hour LC50 > 121 ppm Invertebrate (Water Flea) Daphnia Magna 48-hour EC50 > 113 ppm Bird (Bobwhite Quail) 14-day LD50 981 mg/kg

#### Environmental Fate

#### Mefenoxam:

The information presented here is for the active ingredient, mefenoxam. Does not bioaccumulate. Not persistent in soil or water. Moderate mobility in soil. Mixes/sinks (after 24 h).

## **13. DISPOSAL CONSIDERATIONS**

#### **Disposal**

Do not reuse product containers. Dispose of product containers, waste containers, and residues according to local, state, and federal health and environmental regulations.

Characteristic Waste: Not Applicable

Listed Waste: Not Applicable

## **14. TRANSPORT INFORMATION**

**DOT Classification** 

Ground Transport - NAFTA Not regulated.

#### Comments

Water Transport - International Not regulated.

Air Transport Not regulated.

## **15. REGULATORY INFORMATION**

EPCRA SARA Title III Classification Section 311/312 Hazard Classes:	Acute Health Hazard			
Section 313 Toxic Chemicals:	n-Methylpyrrolidone	(<5%)	(CAS No.	872-50-4)
California Proposition 65 Not Applicable				
CERCLA/SARA 302 Reportable Quant None	ity (RQ)			
RCRA Hazardous Waste Classification Not Applicable	(40 CFR 261)			
TSCA Status Exempt from TSCA, subject to FIFF	RA			
<b>16. OTHER INFORMATION</b>				

<u>NFPA Hazard Ratings</u> Health: Flammability: Instability:	2 1 0	<u>HMIS Hazard Ratin</u> Health: Flammability: Reactivity:	ngs 1 1 0	0 1 2 3 4	Minimal Slight Moderate Serious Extreme
	For non-e	mergency questions	about this product call:		
		1-800-334-	9481		
Original Issued Date:	9/2/1997				
Revision Date:	7/20/2011	Replaces:	7/14/2010		

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein.

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