

# **Safety Data Sheet**

Issue Date: 10-Oct-2012 Revision Date: 17-Sept-2015 Version 2

# 1. IDENTIFICATION

**Product Identifier** 

Product Name Captan GOLD 80 WDG

Other means of identification

SDS # ADAMA-003

Registration Number(s) EPA Reg. No. 66222-58

UN/ID No UN3077

Recommended use of the chemical and restrictions on use

Recommended Use EPA registered fungicide.

Details of the supplier of the safety data sheet

**Manufacturer Address** 

Makhteshim Agan of North America, Inc. (d/b/a ADAMA) 3120 Highwoods Blvd., Suite 100 Raleigh, NC 27604 1-919-256-9300

**Emergency Telephone Number** 

**Emergency Telephone (24 hr)** For fire, spill and/or leak contact INFOTRAC:

1-800-535-5053 (North America) 1-352-323-3500 (International)

For medical emergencies and health/safety inquiries, contact PROSAR:

1-877-250-9291

# 2. HAZARDS IDENTIFICATION

This chemical is a product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-EPA registered chemicals. Please see Section 15 for additional EPA information.

AppearanceLight tan powderPhysical StateSolidOdorOrganic

## Classification

Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Serious eye damage/eye irritation	Category 1
Skin sensitization	Category 1

#### Signal Word Danger

# **Hazard Statements**

Harmful if inhaled
Causes serious eye damage
May cause an allergic skin reaction



## **Precautionary Statements - Prevention**

Use personal protective equipment as required Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area Contaminated work clothing must not be allowed out of the workplace Wear protective gloves

## **Precautionary Statements - Response**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

Immediately call a poison center or doctor/physician IF ON SKIN: Wash with plenty of soap and water

If skin irritation or rash occurs: Get medical advice/attention

Wash contaminated clothing before reuse

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor/physician if you feel unwell

#### **Precautionary Statements - Storage**

Store locked up

Store in a well-ventilated place. Keep container tightly closed

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

## Other Hazards

Very toxic to aquatic life with long lasting effects

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Captan	133-06-2	75.9-80.5

<sup>\*\*</sup>If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.\*\*

## 4. FIRST-AID MEASURES

#### First Aid Measures

General Advice When possible, have the product container or label with you when calling a poison control

center or doctor or going for treatment.

**Eye Contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a

poison center or doctor/physician.

**Skin Contact** Take off immediately all contaminated clothing. Wash skin with soap and water. If skin

irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before

reuse.

**Inhalation** IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for

breathing. Give oxygen if breathing is difficult. If breathing has stopped, call 911, give

artificial respiration. Seek medical advice.

Ingestion Immediately call a poison center or doctor/physician. DO NOT induce vomiting. If

conscious, drink 8-10 oz. of water promptly. Never give anything by mouth to an

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unconscious person. Obtain medical attention. Do not induce vomiting unless directed by

medical personnel.

#### Most important symptoms and effects

**Symptoms** Corrosive - causes irreversible eye damage. May cause an allergic skin reaction.

#### Indication of any immediate medical attention and special treatment needed

**Notes to Physician** Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

## Suitable Extinguishing Media

Foam. Dry chemical. Water spray (fog). Carbon dioxide (CO2). Foam or dry chemical systems are preferred to prevent environmental damage from excessive water runoff.

Unsuitable Extinguishing Media Not determined.

#### **Specific Hazards Arising from the Chemical**

Can burn under fire conditions.

Hazardous Combustion Products Fire will produce irritating, corrosive and/or toxic gases, Hydrogen chloride, Carbon and hydrogen oxides. Nitrogen oxides (NOx), Oxides of sulfur.

#### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Evacuate area of unprotected personnel. Remain upwind of fire to avoid hazardous vapors and decomposition products. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.

#### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

**Personal Precautions** Wear protective clothing as described in Section 8 of this safety data sheet. Isolate hazard

area. Keep unnecessary and unprotected personnel from entering.

**Environmental Precautions** Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See

Section 12, Ecological Information. See Section 13: DISPOSAL CONSIDERATIONS.

# Methods and material for containment and cleaning up

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

**Methods for Clean-Up** Vacuum or sweep up material & place into a suitable disposal container. Avoid generating

dusty conditions. Provide ventilation. Flush spill area with water. Pick up wash liquid with

inert absorbent and place in a chemical waste container for disposal.

# 7. HANDLING AND STORAGE

## Precautions for safe handling

Advice on Safe Handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin, eyes or clothing. Use personal protection recommended in Section 8. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. Do not contaminate water, food or feed by storage, disposal or by cleaning equipment. Wash thoroughly after handling before eating, drinking, smoking, or using toilet facilities.

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#### Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed and store in a cool, dry and well-ventilated place. Store locked

up. Protect from excessive heat. Protect from moisture. Store away from incompatible

materials.

Packaging Materials Do not reuse container.

Incompatible Materials Alkaline materials. Acidic materials.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Captan	TWA: 5 mg/m³ inhalable fraction	(vacated) TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>
133-06-2	_		_

#### **Appropriate engineering controls**

Engineering Controls Please refer to the product label. Use only with adequate ventilation. Use process

enclosures, local exhaust ventilation, or other engineering controls to keep worker exposure

to airborne contaminants below any recommended or statutory limits.

## Individual protection measures, such as personal protective equipment

**Eye/Face Protection** Use chemical safety goggles and/or full-face shield where dusting is possible.

Skin and Body Protection Wear long-sleeved shirt, long pants, and shoes plus socks. Chemical resistant gloves made

of any waterproof material (except applicators driving motorized equipment) such as barrier

laminate, butyl rubber, natural rubber, neoprene rubber, or nitrile rubber >= 14 mils.

**Respiratory Protection** Ensure adequate ventilation, especially in confined areas. Wear an appropriate

NIOSH/MSHA approved respirator if ventilation is inadequate.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice. Contaminated work

clothing should not be allowed out of the workplace. Wash contaminated clothing before

reuse.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

## Information on basic physical and chemical properties

Physical State Solid

AppearanceLight tan powderOdorOrganicColorlight tanOdor ThresholdNot determined

PropertyValuesRemarks • MethodpH9.4(1% solution in water)

Melting Point/Freezing Point
Boiling Point/Boiling Range
Flash Point
Evaporation Rate
Flammability (Solid, Gas)
Upper Flammability Limits
Not determined

Vapor Pressure 2.01 x 10 -4 Pa at 50°C

Vapor DensityNot determinedSpecific GravityNot determinedWater SolubilityInsoluble in water

Solubility in other solvents Not determined **Partition Coefficient** Not determined **Auto-ignition Temperature** 78 °C / 174 °F **Decomposition Temperature** Not determined **Kinematic Viscosity** Not determined **Dynamic Viscosity** Not determined **Explosive Properties** Not an explosive **Oxidizing Properties** None known **Bulk Density** 0.70 g/mL @ 20°C 3.77 ppm at 25°C

## 10. STABILITY AND REACTIVITY

# Reactivity

Not reactive under normal conditions.

#### **Chemical Stability**

Stable under recommended storage conditions.

## **Possibility of Hazardous Reactions**

May decompose if heated.

**Hazardous Polymerization** Hazardous polymerization does not occur.

# **Conditions to Avoid**

Excessive heat. Avoid moisture. Contact with incompatible materials.

# **Incompatible Materials**

Alkaline materials. Acidic materials.

## **Hazardous Decomposition Products**

Fire will produce irritating, corrosive and/or toxic gases. Hydrogen chloride. Carbon and hydrogen oxides. Nitrogen oxides (NOx). Oxides of sulfur.

# 11. TOXICOLOGICAL INFORMATION

# Information on likely routes of exposure

**Product Information** 

**Eye Contact** Causes serious eye damage.

**Skin Contact** May cause an allergic skin reaction.

Inhalation Harmful if inhaled.

Ingestion Do not taste or swallow.

## **Component Information**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Captan	= 9 g/kg (Rat)	> 5 g/kg (Rat)	-
133-06-2			

## Information on physical, chemical and toxicological effects

**Symptoms** Please see section 4 of this SDS for symptoms.

## Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization May cause an allergic skin reaction.

Carcinogenicity Not a human carcinogen when used according to product label.

Chemical Name	ACGIH	IARC	NTP	OSHA
Captan	A3	Group 3		
133-06-2		'		

# **LEGEND**

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 3 IARC components are "not classifiable as human carcinogens"

## <u>Product Information (Numerical measures of toxicity)</u>

Acute Oral LD50 (Rat): >2,000 mg/kg Acute Dermal LD50 (Rabbit): >5,000 mg/kg Acute Inhalation LC50 (Rat): Not available

Eye Irritation: Corrosive

**Dermal Irritation**: Mildly irritating.

Dermal Sensitization: Slight skin sensitizer.

# 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

Very toxic to aquatic life with long lasting effects.

## **Component Information**

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Captan		0.168 - 0.238: 96 h		7 - 9.9: 48 h Daphnia magna
133-06-2		Pimephales promelas mg/L		mg/L EC50 Static
		LC50 static 0.059 - 0.070: 96		
		h Pimephales promelas mg/L		
		LC50 flow-through 0.0666 -		
		0.0804: 96 h Oncorhynchus		
		mykiss mg/L LC50 static 0.3:		
		96 h Oncorhynchus mykiss		
		mg/L LC50 flow-through		
		0.075: 96 h Oncorhynchus		
		mykiss mg/L LC50 126: 96 h		
		Oncorhynchus mykiss mg/L		
		LC50 semi-static 0.119 -		
		0.167: 96 h Lepomis		
		macrochirus mg/L LC50		
		static 0.047 - 0.111: 96 h		
		Lepomis macrochirus mg/L		
		LC50 flow-through 0.16: 96 h		
		Lepomis macrochirus mg/L		
		LC50		

#### Persistence/Degradability

Not determined.

## Bioaccumulation

Not determined.

## **Mobility**

Not determined

## **Other Adverse Effects**

Not determined

# 13. DISPOSAL CONSIDERATIONS

## **Waste Treatment Methods**

Disposal of Wastes END USERS MUST DISPOSE OF ANY UNUSED PRODUCT AS PER THE LABEL

RECOMMENDATIONS.

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Wasterepresentative at the nearest EPA Regional Office for guidance.

Under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste.

Contaminated Packaging Disposal should be in accordance with applicable regional, national and local laws and

regulations.

14. TRANSPORT INFORMATION

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<u>Package size < 12.75 lb. is not regulated by D.O.T. ground</u>

Pack size over 12.75 Lbs.:

UN/ID No UN3077

Proper Shipping Name Environmentally hazardous substance, solid, n.o.s. (captan)

Hazard Class 9
Packing Group III
Reportable Quantity (RQ) 10 Lb.

**IATA** 

UN/ID No UN3077

Proper Shipping Name Environmentally hazardous substance, solid, n.o.s. (captan)

Hazard Class 9
Packing Group III

**IMDG** 

UN3077

Proper Shipping Name Environmentally hazardous substance, solid, n.o.s. (captan)

Hazard Class 9
Packing Group |

Marine Pollutant This product contains a chemical which is listed as a marine pollutant according to

IMDG/IMO

# 15. REGULATORY INFORMATION

**International Inventories** 

TSCA Listed

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

#### **US Federal Regulations**

## **CERCLA**

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Captan	10 lb		RQ 10 lb final RQ
133-06-2			RQ 4.54 kg final RQ

SARA 311/312 Hazard Categories

Acute Health HazardYesChronic Health HazardNoFire HazardNoSudden Release of Pressure HazardNoReactive HazardNo

## **SARA 313**

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
Captan - 133-06-2	133-06-2	75.9-80.5	1.0

## **CWA (Clean Water Act)**

Component	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Captan 133-06-2 ( 75.9-80.5 )	10 lb			Х

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## **US State Regulations**

## **California Proposition 65**

This product contains the following Proposition 65 chemicals.

Chemical Name	California Proposition 65
Captan - 133-06-2	Carcinogen

## U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Captan	X	X	X
133-06-2			

## **EPA Pesticide Registration Number** 66222-58

## **EPA Statement**

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:

#### **EPA Pesticide Label**

Signal Word: Danger

Causes irreversible eye damage. Harmful if swallowed or inhaled. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Do not get in eyes. Avoid contact with skin and clothing. Avoid inhalation of dust or spray mist.

Difference between SDS and EPA pesticide label

	EPA	OSHA
Signal Word	Danger	Danger
Acute toxicity - Oral	Harmful if swallowed	N/A
Acute toxicity - Inhalation (Dusts/Mists)	Harmful if inhaled	Harmful if inhaled
Social and demandation	Causes irreversible	
Serious eye damage/eye irritation	eye damage	Causes serious eye damage
	Prolonged or	
	frequently repeated	
Skin sensitization	skin contact may cause	
	allergic reactions in	May cause an allergic skin
	some individuals	reaction

# **16. OTHER INFORMATION**

NFPA Health Hazards Flammability Instability Special Hazards

1 1 None

<u>HMIS</u> Health Hazards Flammability Physical Hazards Personal Protection

1 See section 8

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**Revision Note:** Updated format from 29-Apr-2014

#### **Disclaimer**

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.

**End of Safety Data Sheet** 

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