SAFETY DATA SHEET



Revision date 19-Jan-2021 Revision Number 1

1. Identification

Product identifier

Product Name Captan 80 WDG

Other means of identification

Product Code(s) 42750-231

UN/ID no. UN 3077

Synonyms None

EPA Registration Number(s) 42750-231

Recommended use of the chemical and restrictions on use

Recommended use Fungicide

Restrictions on use Follow label instructions

Details of the supplier of the safety data sheet

Company Address

ALBAUGH LLC 1525 NE 36th St, Ankeny, IA 50211

Emergency telephone number

For Chemical Emergency Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night

- Within USA and Canada: 1-800-424-9300
- Outside USA and Canada: +1 703-741-5970 (collect calls accepted)

This product is an EPA FIFRA registered pesticide. Some classifications on this SDS are not the same as the FIFRA label. Certain sections of this SDS are superseded by federal law governed by US EPA for a registered pesticide. Please see Section 15. REGULATORY INFORMATION for explanation.

2. Hazard(s) identification

Classification

Acute toxicity - Dermal	Category 4***
Acute toxicity - Inhalation (Dusts/Mists)	Category 3***
Serious eye damage/eye irritation	Category 1***
Skin sensitization	Category 1***
Carcinogenicity	Category 2***

Hazards not otherwise classified (HNOC)

Not applicable

Label elements

Danger***

Hazard statements

Harmful in contact with skin

Toxic if inhaled

Causes serious eye damage

May cause an allergic skin reaction

Suspected of causing cancer***



Appearance granules

Physical state Solid

Odor Pungent

Precautionary Statements - Prevention

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Wear protective gloves/protective clothing/eye protection/face protection

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***

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention

Specific treatment (see .? on this label)

Specific treatment (see .? on this label)***

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***

IF ON SKIN: Wash with plenty of water and soap

Call a POISON CENTER or doctor if you feel unwell

Take off contaminated clothing and wash it before reuse

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

IF INHALED: Remove person to fresh air and keep comfortable for breathing

Call a POISON CENTER or doctor***

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***

Unknown acute toxicity ***

15.43 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity***

15.43 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)***

Other information

Toxic to aquatic life with long lasting effects. Very toxic to aquatic life.***

3. Composition/information on ingredients

Substance

Not applicable.***

Mixture ***

Chemical name	CAS No	Weight-%	Trade secret	Active Ingredient
Captan	133-06-2	77.6-82.4	*	
Sodium Lauryl Sulfate	151-21-3	6.7-7.4	*	
Kaolin Clay	1332-58-7	2.3-2.5	*	
Hi-Sil 233	112926-00-8	0.9-1.1	*	

^{*}The exact percentage (concentration) of composition has been withheld as a trade secret.

4. First-aid measures

Description of first aid measures

General advice Show this safety data sheet to the doctor in attendance. Immediate medical attention is

required. IF exposed or concerned: Get medical advice/attention.***

Inhalation Remove to fresh air. Get medical attention immediately if symptoms occur. If breathing has

stopped, give artificial respiration. Get medical attention immediately. Do not breathe dust. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, (trained personnel should) give

oxygen.***

Eye contact Get immediate medical advice/attention. 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. Keep eye wide open while rinsing. Do not rub affected area.***

Skin contact Wash off immediately with soap and plenty of water for at least 15 minutes. May cause an

allergic skin reaction. If symptoms persist, call a physician.***

Ingestion Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water.

Never give anything by mouth to an unconscious person. Call a physician or poison control

center immediately.***

Self-protection of the first aider Ensure that medical personnel are aware of the material(s) involved, take precautions to

protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Do not breathe dust. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Use personal protective

equipment as required. See section 8 for more information.***

Most important symptoms and effects, both acute and delayed

Symptoms Burning sensation. Itching. Rashes. Hives. Coughing and/ or wheezing. Difficulty in

breathing.***

Indication of any immediate medical attention and special treatment needed

Note to physicians May cause sensitization in susceptible persons. Treat symptomatically.***

5. Fire-fighting measures

surrounding environment.

Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing media

Do not scatter spilled material with high pressure water streams.

Specific hazards arising from the

chemical

Product is or contains a sensitizer. May cause sensitization by skin contact.***

Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge

Special protective equipment for

fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout

gear. Use personal protection equipment.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin, eyes or clothing. Ensure adequate ventilation, Use personal

protective equipment as required. Evacuate personnel to safe areas. Keep people away

from and upwind of spill/leak. Avoid generation of dust. Do not breathe dust.***

Other information Refer to protective measures listed in Sections 7 and 8.***

Methods and material for containment and cleaning up

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

Methods for cleaning up Pick up and transfer to properly labeled containers.

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. Do not eat, drink or smoke when using this product. In case of insufficient ventilation, wear suitable respiratory equipment. Take off contaminated clothing and wash before reuse. Do not breathe dust. Avoid generation of dust. Handle product only

in closed system or provide appropriate exhaust ventilation.***

Conditions for safe storage, including any incompatibilities

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

Keep out of the reach of children.***

8. Exposure controls/personal protection

Control parameters

The following ingredients are the only ingredients of the product above the cut-off level (or **Exposure Limits**

level that contributes to the hazard classification of the mixture) which have an exposure

limit applicable in the region for which this safety data sheet is intended or other

recommended limit. At this time, the other relevant constituents have no known exposure

limits from the sources listed here.***

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Captan	dermal sensitizer	(vacated) TWA: 5 mg/m ³	TWA: 5 mg/m ³
133-06-2	TWA: 5 mg/m³ inhalable particulate matter		
Kaolin Clay	TWA: 2 mg/m³ particulate	TWA: 15 mg/m ³ total dust	TWA: 10 mg/m³ total dust
1332-58-7	matter containing no asbestos	TWA: 5 mg/m ³ respirable	TWA: 5 mg/m ³ respirable dust
	and <1% crystalline silica,	fraction	-
	respirable particulate matter	(vacated) TWA: 10 mg/m ³ total	
		dust	
		(vacated) TWA: 5 mg/m ³	
		respirable fraction	
Hi-Sil 233	-	(vacated) TWA: 6 mg/m ³	-
112926-00-8		TWA: 20 mppcf	
		: (80)/(% SiO2) mg/m ³ TWA	

Biological occupational exposure limits

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

Appropriate engineering controls

Engineering controls Showers

Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection Tight sealing safety goggles.***

Hand protection Wear suitable gloves.***

Skin and body protection Wear suitable protective clothing. Long sleeved clothing.***

Respiratory protectionNo protective equipment is needed under normal use conditions. If exposure limits are

exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do

not eat, drink or smoke when using this product. Wash hands before breaks and

immediately after handling the product. Do not breathe dust. Take off contaminated clothing and wash before reuse. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended.***

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical stateSolidAppearancegranulesColorlight brownOdorPungent

Odor threshold No information available

Property Values Remarks • Method

pH 5.0 6.0

Melting point / freezing pointNo data availableBoiling point / boiling rangeNo data availableFlash pointNo data available

Evaporation rate No data available

Flammability (solid, gas)

No data available

Flammability Limit in Air

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

Vapor pressureNo data availableVapor densityNo data availableRelative densityNo data availableWater solubilityNo data availableSolubility(ies)No data availablePartition coefficientNo data availableAutoignition temperatureNo data available

Decomposition temperature

Kinematic viscosity

No data available

No data available

No data available

Other information

Explosive properties

Oxidizing properties

No information available

Liquid Density 0.54-0.58

Bulk density No information available

10. Stability and reactivity

Reactivity No information available.

Chemical stability Stable under normal conditions.

Possibility of hazardous reactions None under normal processing.

Conditions to avoid Excessive heat.***

Incompatible materials Strong acids. Strong bases. Strong oxidizing agents.***

Hazardous decomposition products None known based on information supplied.

11. Toxicological information

Information on likely routes of exposure

Product Information ***

Inhalation Specific test data for the substance or mixture is not available. Toxic by inhalation. (based

on components).***

Eye contact Specific test data for the substance or mixture is not available. Causes serious eye

damage. May cause irreversible damage to eyes.***

Skin contact Specific test data for the substance or mixture is not available. May cause irritation. May

cause sensitization by skin contact. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components). May be absorbed through the

skin in harmful amounts. Harmful in contact with skin.***

Ingestion Specific test data for the substance or mixture is not available. Ingestion may cause

gastrointestinal irritation, nausea, vomiting and diarrhea.***

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Redness. Burning. May cause blindness. Itching. Rashes. Hives. Coughing and/ or

wheezing. Difficulty in breathing.***

Acute toxicity

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document ***

ATEmix (oral) 14,313.70*** mg/kg***
ATEmix (dermal) 1,643.50*** mg/kg***
ATEmix (inhalation-dust/mist) 0.507*** mg/l***

Unknown acute toxicity

15.43 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity***

15.43 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)***

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Captan 133-06-2	= 3573 mg/kg (Rat) = 9 g/kg (Rat)	> 5000 mg/kg (Rat) > 5 g/kg (Rat)	= 0.72 mg/L (Rat)4 h
Sodium Lauryl Sulfate 151-21-3	= 1288 mg/kg (Rat)	= 200 mg/kg (Rabbit)	> 3900 mg/m³ (Rat)1 h
Kaolin Clay 1332-58-7	> 5000 mg/kg (Rat)	> 5000 mg/kg (Rat)	-

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

Skin corrosion/irritation May cause skin irritation.***

Serious eye damage/eye irritation Classification based on data available for ingredients. Causes burns. Risk of serious

damage to eyes.***

Respiratory or skin sensitization May cause sensitization by skin contact.***

Germ cell mutagenicity No information available.

Carcinogenicity Contains a known or suspected carcinogen. Classification based on data available for

ingredients. Suspected of causing cancer.***

The table below indicates whether each agency has listed any ingredient as a carcinogen.***

I	Chemical name	ACGIH	IARC	NTP	OSHA
Ī	Captan	A3	Group 3	-	-
	133-06-2				
	Hi-Sil 233	-	Group 3	-	-
	112926-00-8		•		

Legend

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen***

IARC (International Agency for Research on Cancer)

Group 3 - Not Classifiable as to Carcinogenicity in Humans***

Reproductive toxicity No information available.

STOT - single exposure No information available.

STOT - repeated exposureNo information available.

Target organ effects liver, kidney, Respiratory system, Eyes, Skin, Gastrointestinal tract (GI).***

Aspiration hazard No information available.

Other adverse effects No information available.

Interactive effects No information available.

12. Ecological information

Ecotoxicity

Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.***

Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
Captan	-	LC50: 0.119 - 0.167mg/L	-	EC50: 7 - 9.9mg/L (48h,
133-06-2		(96h, Lepomis		Daphnia magna)
		macrochirus)		
		LC50: 0.0666 -		
		0.0804mg/L (96h,		
		Oncorhynchus mykiss)		
		LC50: 0.168 - 0.238mg/L		
		(96h, Pimephales		
		promelas)		
		LC50: 0.059 - 0.070mg/L		
		(96h, Pimephales		
		promelas)		
		LC50: =0.3mg/L (96h,		
		Oncorhynchus mykiss)		
		LC50: =0.075mg/L (96h,		
		Oncorhynchus mykiss)		
		LC50: >126mg/L (96h,		
		Oncorhynchus mykiss)		
		LC50: 0.047 - 0.111mg/L		
		(96h, Lepomis		
		macrochirus)		
		LC50: =0.16mg/L (96h,		
		Lepomis macrochirus)		
Sodium Lauryl Sulfate	EC50: =53mg/L (72h,	LC50: 15 - 18.9mg/L	-	EC50: =1.8mg/L (48h,
151-21-3	Desmodesmus	(96h, Pimephales		Daphnia magna)
	subspicatus)	promelas)		
	EC50: 30 - 100mg/L (96h,			
	Desmodesmus	Pimephales promelas)		
	subspicatus)	LC50: 22.1 - 22.8mg/L		
	EC50: =117mg/L (96h,	(96h, Pimephales		
	Pseudokirchneriella	promelas)		
	subcapitata)	LC50: 4.3 - 8.5mg/L (96h,		
	EC50: 3.59 - 15.6mg/L	Oncorhynchus mykiss)		
	(96h, Pseudokirchneriella	LC50: =4.62mg/L (96h,		
	subcapitata)	Oncorhynchus mykiss)		
		LC50: =4.2mg/L (96h,		
		Oncorhynchus mykiss)		
		LC50: 10.2 - 22.5mg/L		
		(96h, Pimephales		
		promelas)		
		LC50: 6.2 - 9.6mg/L (96h,		
		Pimephales promelas)		
		LC50: 13.5 - 18.3mg/L		
		(96h, Poecilia reticulata)		
		LC50: 10.8 - 16.6mg/L		
		(96h, Poecilia reticulata)		
		LC50: =1.31mg/L (96h,		
		Cyprinus carpio)		

LC50: =7.97mg/L (96h,
Brachydanio rerio)
LC50: 9.9 - 20.1mg/L
(96h, Brachydanio rerio)
LC50: 4.06 - 5.75mg/L
(96h, Lepomis
macrochirus)
LC50: 4.2 - 4.8mg/L (96h,
Lepomis macrochirus)
LC50: =4.5mg/L (96h,
Lepomis macrochirus)
LC50: =4.5mg/L (96h,
Lepomis macrochirus)
LC50: 5.8 - 7.5mg/L (96h,
Pimephales promelas)

Persistence and degradability No information available.

Bioaccumulation There is no data for this product.

Component Information **

Chemical name	Partition coefficient
Sodium Lauryl Sulfate	1.6
151-21-3	

Other adverse effects No information available.

13. Disposal considerations

Waste treatment methods

Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

Contaminated packaging Do not reuse empty containers.

14. Transport information

DOT Regulated***

Notes UN 3077, Environmentally Hazardous Substance, Solid, N.O.S., 9, PG III, RQ (captan)***

UN/ID no. UN 3077***

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.***

Transport hazard class(es) 9*

Packing group

DOT reportable quantity - lbs 10*

9***

III*** 10***

TDG Not regulated***

MEX Not regulated***

ICAO (air) Not regulated***

IATA Not regulated***

IMDG Not regulated***

RID Not regulated***

ADR Not regulated***

ADN Not regulated***

15. Regulatory information

U.S. EPA Label Information

EPA Pesticide Registration Number 42750-231

EPA Pesticide Label DANGER. Causes irreversible eye damage. Harmful if swallowed or inhaled. Prolonged or

frequently repeated skin contact may cause allergic reactions in some individuals.

International Inventories

TSCA	Does not comply
DSL/NDSL	Does not comply
EINECS/ELINCS	Does not comply
ENCS	Does not comply
IECSC	Does not comply
KECL	Does not comply
PICCS	Does not comply
AICS	Does not comply

Legend:

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

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.***

Chemical name	SARA 313 - Threshold Values %
Captan - 133-06-2	1.0

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Captan 133-06-2	10 lb	-	-	Х

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).***

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Captan	10 lb	-

133-06-2	

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 133-06-2	Х	X	Х
Kaolin Clay 1332-58-7	Х	X	Х
Hi-Sil 233 112926-00-8	Х	X	Х

16. Other information

NFPA Health hazards 3*** Flammability 0 Instability 0 Physical and chemical properties -

HMIS Health hazards 3 **** Flammability 0 Physical hazards 0 Personal protection X

Chronic Hazard Star Legend * = Chronic Health Hazard***

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value * Skin designation

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications

Organization for Economic Co-operation and Development High Production Volume Chemicals Program

Organization for Economic Co-operation and Development Screening Information Data Set

World Health Organization

Revision date 19-Jan-2021

Revision Note No information available.

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.

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End of Safety Data Sheet