

SDS REVISIONS: ALL SECTIONS DATE OF ISSUE: 03/26/2018

**CAPTAN 80 WDG** SUPERSEDES: 02/11/2015

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product identifier** 

**Product Name CAPTAN 80 WDG** 

Other means of identification

**Product Code** PST-0052 UN/ID no 3077 **Synonyms** None Registration Number(s) 34704-1075

Recommended use of the chemical and restrictions on use

**Recommended Use** Fungicide.

No information available Uses advised against

Details of the supplier of the safety data sheet

Manufacturer Address

LOVELAND PRODUCTS, INC.

P.O. Box 1286

Greeley, CO 80632-1286

Emergency telephone number

**Company Phone Number Emergency Telephone** 

1-888-LPI-CUST (574-2878) Chemtrec 1-800-424-9300

Medical Emergencies: 1-866-944-8565

US regulations require reporting spills of this material that could reach any surface waters. The toll-free phone number for the US Coast Guard National Response Center is

1-800-424-8802

# 2. HAZARDS IDENTIFICATION

## Classification

# **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Dermal	Category 4 - (H312)
Acute toxicity - Inhalation (Dusts/Mists)	Category 3 - (H331)
Serious eye damage/eye irritation	Category 1 - (H318)
Skin sensitization	Category 1 - (H317)

#### Label elements



**DANGER** Signal word

**Hazard statements** H312 - Harmful in contact with skin

H317 - May cause an allergic skin reaction

H318 - Causes serious eye damage

H331 - Toxic if inhaled



SDS REVISIONS: ALL SECTIONS DATE OF ISSUE: 03/26/2018

**CAPTAN 80 WDG** SUPERSEDES: 02/11/2015

**Precautionary Statements -**P280 - Wear protective gloves/protective clothing/eye protection/face protection

Prevention P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

P271 - Use only outdoors or in a well-ventilated area

P272 - Contaminated work clothing should not be allowed out of the workplace

**Precautionary Statements -**P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position Response

comfortable for breathing

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing P310 - Immediately call a POISON CENTER or doctor/physician

P311 - Call a POISON CENTER or doctor/physician

P312 - Call a POISON CENTER or doctor/physician if you feel unwell P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention

P363 - Wash contaminated clothing before reuse

**Precautionary Statements -**P403 + P233 - Store in a well-ventilated place. Keep container tightly closed

Storage P405 - Store locked up

**Precautionary Statements -**P501 - Dispose of contents/ container to an approved waste disposal plant

Disposal

Hazards not otherwise classified (HNOC)

Not applicable

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Mixture

Chemical Name	CAS No	Weight-%	GHS Classification	Trade Secret
Captan Technical (95.9 %AI)	133-06-2	60 - 100	Acute Tox. 3 (H331) Eye Dam. 1 (H318) Skin Sens. 1 (H317) Carc. 2 (H351) Aquatic Acute 1 (H400)	*
Stepwet DF-95	Proprietary	5 - 10		*
Kaolin Clay	1332-58-7	1 - 5		*
Amorphous Silicon Dioxide	7631-86-9	1 - 5		*

If CAS number is "proprietary", the specific chemical identity and percentage of composition has been withheld as a trade secret. OSHA Hazard Communication 29 CFR 1910.1200



CAPTAN 80 WDG SDS REVISIONS: ALL SECTIONS DATE OF ISSUE: 03/26/2018 SUPERSEDES: 02/11/2015

4. FIRST AID MEASURES

Description of first aid measures

General advice Get medical attention if symptoms occur.

Eve contact Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Get medical

attention. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing

eye. Call a poison control center or doctor for treatment advice.

Skin contact Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20

minutes. Call a poison control center or doctor for treatment advice.

Inhalation Remove to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial

respiration, preferable by mouth-to-mouth, if possible. Call a poison control center or doctor

for treatment advice.

Call a poison control center or doctor for treatment advice. Have person sip a glass of water Ingestion

if able to swallow. Do NOT induce vomiting unless directed to do so by medical personnel.

Never give anything by mouth to an unconscious person.

Self-protection of the first aider Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

Most important symptoms and effects, both acute and delayed

No information available. **Symptoms** 

Indication of any immediate medical attention and special treatment needed

Treatment: Treat symptomatically. Symptoms may be delayed. Have the product container or label with

you when calling a poison control center or doctor or going for treatment. You may also call

1-866-944-8565 for emergency medical treatment information.

Note to physicians No specific antidote. Treat symptomatically.

**Antidotes** No data available

#### 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use extinguishing agent suitable for type of surrounding fire, Use CO<sub>2</sub>, dry chemical, or foam

Specific hazards arising from the chemical

In the event of fire and/or explosion do not breathe fumes. May cause sensitization in susceptible persons. Thermal decomposition can lead to release of irritating and toxic gases and vapors.

**Explosion data** 

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

Protective equipment and precautions for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.



CAPTAN 80 WDG SUPERSEDES: 02/11/2015

SDS REVISIONS: ALL SECTIONS DATE OF ISSUE: 03/26/2018

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Use personal protective equipment as required. Keep people away from and upwind of

spill/leak. Evacuate personnel to safe areas.

Environmental precautions

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

Do not flush into surface water or sanitary sewer system. See Section 12 for additional

ecological information.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so. Cover powder spill with plastic sheet or

tarp to minimize spreading. Dike far ahead of liquid spill for later disposal.

Methods for cleaning up

Use personal protective equipment as required. Cover powder spill with plastic sheet or tarp

to minimize spreading and keep powder dry. Take up mechanically, placing in appropriate containers for disposal. Avoid creating dust. Clean contaminated surface thoroughly. Soak up with inert absorbent material. Dam up. Pick up and transfer to properly labeled

containers. Sweep up and shovel into suitable containers for disposal. After cleaning, flush

away traces with water. Take precautionary measures against static discharges.

## 7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Avoid contact with skin, eyes or clothing. Wash contaminated clothing before reuse. Do not

eat, drink or smoke when using this product. Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray. Use with local exhaust

ventilation.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of

children. Keep containers tightly closed in a cool, well-ventilated place. Keep in properly

labeled containers.

Incompatible materials Alkaline materials. Acidic materials.



CAPTAN 80 WDG SUPERSEDES: 02/11/2015

SDS REVISIONS: ALL SECTIONS DATE OF ISSUE: 03/26/2018

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

**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. Face protection shield.

**Skin and body protection** Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls,

as appropriate, to prevent skin contact.

Respiratory protection Dependent on job function. If vapors or dusts exceed acceptable levels, wear a

MSHA/NIOSH approved air-purifying respirator with any cartridges/filters approved for pesticides. If respirators are used, a program should be in place to assure compliance with 29 CFR 1910.134, the OSHA Respiratory Protection Standard. Wear a supplied air

respirator if exposure concentrations are unknown.

General Hygiene Considerations When using do not eat, drink or smoke. Regular cleaning of equipment, work area and

clothing is recommended. Avoid contact with skin, eyes or clothing. Wash hands thoroughly

after handling. Keep away from food, drink and animal feeding stuffs.



CAPTAN 80 WDG SUPERSEDES: 02/11/2015

SDS REVISIONS: ALL SECTIONS DATE OF ISSUE: 03/26/2018

# 9. PHYSICAL AND CHEMICAL PROPERTIES

## Information on basic physical and chemical properties

Physical stateSolid PowderAppearancePowderColorOff-white to tanOdorPungent OrganicOdor thresholdNo data available

Property Values (Remarks - Method)

**pH** 5.5

Melting point / freezing pointNo data availableBoiling pointNo data availableFlash pointNo data availableEvaporation rateNo data availableFlammability (solid, gas)No data available

Flammability Limit in Air

No data available Upper flammability limit: Lower flammability limit: No data available No data available Vapor pressure Vapor density No data available **Specific Gravity** 0.562 g/ml Water solubility Insoluble in water Solubility in other solvents No data available Partition coefficient No data available **Autoignition temperature** No data available No data available **Decomposition temperature** Kinematic viscosity No data available No data available Dynamic viscosity No data available **Explosive properties** No data available **Oxidizing properties** 

Other Information

VOC Content (%) No data available

**Density** 35lbs/ft3

**Note:** These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.



CAPTAN 80 WDG SUPERSEDES: 02/11/2015

SDS REVISIONS: ALL SECTIONS DATE OF ISSUE: 03/26/2018

10. STABILITY AND REACTIVITY

# Reactivity

No data available

#### **Chemical stability**

Stable under recommended storage conditions.

## **Possibility of Hazardous Reactions**

None under normal processing.

# **Conditions to avoid**

Moisture.

#### Incompatible materials

Alkaline materials. Acidic materials.

# **Hazardous Decomposition Products**

Hydrogen chloride. Carbon oxides. Nitrogen oxides (NOx). Hydrogen cyanide.



**CAPTAN 80 WDG** SUPERSEDES: 02/11/2015

SDS REVISIONS: ALL SECTIONS DATE OF ISSUE: 03/26/2018

## 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity of the formulated product:

Chemical Name	Oral LD50	Dermal LD <sub>50</sub>	Inhalation LC50
Captan Technical (95.9 %AI)	= 3573 mg/kg (Rat) = 9 g/kg (Rat	> 5000 mg/kg (Rat) > 5 g/kg (Rat	= 0.72 mg/L (Rat) 4 h
	)	)	
Stepwet DF-95	= 1288 mg/kg (Rat)	= 200 mg/kg ( Rabbit )	> 3900 mg/m³ (Rat) 1 h
Amorphous Silicon Dioxide	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 2.2 mg/L (Rat) 1 h

Chemical Name	Skin corrosion/irritation	Eye damage/irritation	Respiratory sensitization	Skin sensitization
Captan Technical (95.9 %AI)		Category 1		Category 1
133-06-2				

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

Germ cell mutagenicity No information available.

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

Chemical Name	ACGIH	IARC	NTP	OSHA
Captan Technical (95.9 %AI) 133-06-2	А3	Group 3	-	-
Amorphous Silicon Dioxide 7631-86-9	-	Group 3	-	-

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Not classifiable as a human carcinogen

Reproductive toxicity No information available. STOT - single exposure No information available. STOT - repeated exposure No information available.

**Chronic toxicity** Repeated contact may cause allergic reactions in very susceptible persons. Avoid repeated

exposure. May cause adverse liver effects.

**Target Organ Effects** Eye damage/irritation, Gastrointestinal tract (GI), kidney, liver, Respiratory system, Skin.

**Aspiration hazard** No information available.

#### Information on likely routes of exposure

**Product Information** No data available

No data available. Inhalation

**Eve contact** No data available.

Skin contact No data available.

No data available. Ingestion



**CAPTAN 80 WDG** SUPERSEDES: 02/11/2015

SDS REVISIONS: ALL SECTIONS DATE OF ISSUE: 03/26/2018

# 12. ECOLOGICAL INFORMATION

# **Ecotoxicity**

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Captan Technical (95.9 %AI)	-	LC50 0.168 - 0.238 mg/L 96 h	EC50 7 - 9.9 mg/L 48 h Daphnia
133-06-2		Pimephales promelas LC50 0.059 -	magna
		0.070 mg/L 96 h Pimephales	_
		promelas LC50 0.0666 - 0.0804	
		mg/L 96 h Oncorhynchus mykiss	
		LC50 0.3 mg/L 96 h Oncorhynchus	
		mykiss LC50 0.075 mg/L 96 h	
		Oncorhynchus mykiss LC50 126	
		mg/L 96 h Oncorhynchus mykiss	
		LC50 0.119 - 0.167 mg/L 96 h	
		Lepomis macrochirus LC50 0.047 -	
		0.111 mg/L 96 h Lepomis	
		macrochirus LC50 0.16 mg/L 96 h	
		Lepomis macrochirus	
Stepwet DF-95	EC50 53 mg/L 72 h Desmodesmus	LC50 8 - 12.5 mg/L 96 h	EC50 1.8 mg/L 48 h Daphnia
	subspicatus EC50 30 - 100 mg/L 96		magna
	h Desmodesmus subspicatus EC50		
	117 mg/L 96 h Pseudokirchneriella	promelas LC50 22.1 - 22.8 mg/L 96	
	subcapitata EC50 3.59 - 15.6 mg/L	h Pimephales promelas LC50 4.3 -	
	96 h Pseudokirchneriella	8.5 mg/L 96 h Oncorhynchus	
	subcapitata	mykiss LC50 4.62 mg/L 96 h	
		Oncorhynchus mykiss LC50 4.2	
		mg/L 96 h Oncorhynchus mykiss	
		LC50 10.2 - 22.5 mg/L 96 h	
		Pimephales promelas LC50 6.2 -	
		9.6 mg/L 96 h Pimephales promelas	
		LC50 13.5 - 18.3 mg/L 96 h Poecilia	
		reticulata LC50 10.8 - 16.6 mg/L 96 h Poecilia reticulata LC50 1.31 mg/L	
		96 h Cyprinus carpio LC50 7.97	
		mg/L 96 h Brachydanio rerio LC50	
		9.9 - 20.1 mg/L 96 h Brachydanio	
		rerio LC50 4.06 - 5.75 mg/L 96 h	
		Lepomis macrochirus LC50 4.2 - 4.8	
		mg/L 96 h Lepomis macrochirus	
		LC50 4.5 mg/L 96 h Lepomis	
		macrochirus LC50 5.8 - 7.5 mg/L 96	
		h Pimephales promelas	
Amorphous Silicon Dioxide	EC50 440 mg/L 72 h		EC50 7600 mg/L 48 h Ceriodaphnia
7631-86-9	Pseudokirchneriella subcapitata	rerio	dubia

# Persistence and degradability No information available.

#### **Bioaccumulation**

No information available.

Other adverse effects

No information available



CAPTAN 80 WDG SUPERSEDES: 02/11/2015

SDS REVISIONS: ALL SECTIONS DATE OF ISSUE: 03/26/2018

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes Wastes may be disposed of on site or at an approved waste disposal facility. Triple rinse (or

equivalent), adding rinse water to spray tank. Offer container for recycling or dispose of in a sanitary landfill or by other procedures approved by appropriate authorities. Recycling decontaminated containers is the best option of container disposal. The Agricultural Container Recycling Council (ACRC) operates the national recycling program. To contact your state and local ACRC recycler visit the ACRC web page at http://www.acrecycle.org/.

Do not contaminate water, food or feed by storage or disposal.

**Contaminated packaging** Do not reuse container.

## 14. TRANSPORT INFORMATION

DOT

UN/ID no 3077

Proper shipping name

RQ Environmentally hazardous substance, solid, n.o.s. (Captan)

U.S. Surface Freight Classification:

INSECTICIDES OR FUNGICIDES, INSECT OR ANIMAL

INSECTICIDES OR FUNGICIDES, INSECT OR ANIMAL REPELLENTS, NOI, OTHER THAN POISON (NMFC 102120;

CLASS: 60)

Hazard Class 9
Packing Group III
Emergency Response Guide Number 171



**CAPTAN 80 WDG** 

SDS REVISIONS: ALL SECTIONS DATE OF ISSUE: 03/26/2018

SUPERSEDES: 02/11/2015

# 15. REGULATORY INFORMATION

NFPA Health hazards 2 Flammability 0 Instability 0 Physical and Chemical

Properties -

HMIS Health hazards 2 Flammability 0 Physical hazards 0 Personal protection X

0 - Least 1 - Slight 2 - Moderate 3 - High 4 - Severe

# **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 Technical (95.9 %AI) - 133-06-2	1.0
SARA 311/312 Hazard Categories	
Acute health hazard	Yes
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

#### CWA (Clean Water Act)

This product contains the following substances which are regulated 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 Technical (95.9 %AI)	10 lb	-	-	X
133-06-2				

# 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	CERCLA/SARA RQ	Reportable Quantity (RQ)
Captan Technical (95.9 %AI)	10 lb	-	RQ 10 lb final RQ
133-06-2			RQ 4.54 kg final RQ

#### **US State Regulations**

#### **California Proposition 65**

This product contains the following Proposition 65 chemicals

Chemical Name	California Proposition 65
Captan Technical (95.9 %AI) - 133-06-2	Carcinogen

#### U.S. EPA Label Information

**EPA Registration Number** 34704-1075

# **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:

**DANGER - PELIGRO** 

#### Difference between SDS and EPA Pesticide label

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.



CAPTAN 80 WDG SUPERSEDES: 02/11/2015

SDS REVISIONS: ALL SECTIONS DATE OF ISSUE: 03/26/2018

**16. OTHER INFORMATION** 

Prepared By Product Stewardship and Regulatory Affairs

Reviewed By Environmental Health and Safety

 Issue Date
 03/26/2018

 Revision Date
 11/05/2018

**Revision Note** 

16 SDS sections updated

CAPTAN 80 WDG is a trademark of Loveland Products, Inc.

#### Disclaimer

This safety data sheet was developed from information on the constituent materials identified herein and does not relate to the use of such materials in combination with any other material or process. No warranty is expressed or implied with respect to the completeness or ongoing accuracy of the information contained in this data sheet, and LOVELAND PRODUCTS, INC. disclaims all liability for reliance on such information. This data sheet is not a guarantee of safety. Users are responsible for ensuring that they have all current information necessary to safely use the product described by this data sheet for their specific purpose.

**End of Safety Data Sheet**