Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Captan 80 WDG

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended Use: Fungicide
Uses advised against: No information available

1.3. Details of the supplier of the safety data sheet

Supplier Address: ADAMA Agricultural Solutions UK Ltd
Unit 15, Thatcham Buisness Village Colthrop Way,
Thatcham Berkshire RG19 4LW, UK: 01635 860555
Fax: 01635 861555

For further information, please contact

Email address: ukenquiries@adama.com

1.4. Emergency telephone number

Emergency Telephone: National Chemical Emergency Centre (UK):
Tel: 01865 407333 (24 hours)

Section 2: HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]
Serious eye damage/eye irritation: Category 2 - (H319)
Skin sensitization: Category 1 - (H317)
Carcinogenicity: Category 2 - (H351)
Acute aquatic toxicity: Category 1 - (H400)
Hazardous to the Aquatic: Category 3 - (H412)
Environment - Chronic Hazard

Classification according to Directive 67/548/EEC or 1999/45/EC
Full text of R-phrases: see section 16

Carc. cat. 3; R40 - Xi; R36 - R43 - N; R50
2.2. Label elements

Labeling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms

![Hazard pictograms]

**Signal word**

Warning

**Hazard Statements**

- H317 - May cause an allergic skin reaction
- H319 - Causes serious eye irritation
- H351 - Suspected of causing cancer
- H400 - Very toxic to aquatic life
- H412 - Harmful to aquatic life with long lasting effects

**Precautionary Statements**

- P102 - Keep out of reach of children
- P201 - Obtain special instructions before use
- P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
- P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- P501 - Dispose of contents/container to an approved waste disposal plant
- P280 - Wear protective gloves/protective clothing/eye protection/face protection

**Precautionary Statements**

- P102 - Keep out of reach of children
- P201 - Obtain special instructions before use
- P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
- P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- P501 - Dispose of contents/container to an approved waste disposal plant
- P280 - Wear protective gloves/protective clothing/eye protection/face protection

**EU Specific Hazard Statements**

EUH401 - To avoid risks to human health and the environment, comply with the instructions for use

**Additional phrases for PPP**

- SP1 - Do not contaminate water with the product or its container

2.3. Other hazards

No information available

---

### Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Weight- %</th>
<th>CAS No</th>
<th>EC No</th>
<th>Index No</th>
<th>Classification according to Regulation (EC) No. 1272/2008 [CLP]</th>
<th>Classification according to 67/548/EEC</th>
<th>M-Factor</th>
<th>REACH Registration Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Captan</td>
<td>75 - 85</td>
<td>133-06-2</td>
<td>205-087-0</td>
<td>613-044-00-6</td>
<td>Acute Tox. 3 (H331) Eye Dam. 1 (H316) Skin Sens. 1 (H317) Carc. 2 (H351) Aquatic Acute 1 (H400)</td>
<td>T; R23 Xi; R41 R43 Carc.Cat.3; R40 N; R50</td>
<td>10</td>
<td>-</td>
</tr>
<tr>
<td>Sulfonated aromatic polymer, sodiumsalt</td>
<td>3.0 - 4.0</td>
<td>N/A</td>
<td>-</td>
<td>-</td>
<td>Eye Irrit. 2 (H319)</td>
<td>Xi; R36</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>phenolsulfonic acid-formaldehyde-pol ycondensate as sodium salt</td>
<td>2.0-3.0</td>
<td>N/A</td>
<td>-</td>
<td>-</td>
<td>Aquatic Chronic 3 (H412)</td>
<td>R52/53</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>
### Section 4: FIRST AID MEASURES

#### 4.1. Description of first aid measures

**General advice**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). First aider: Pay attention to self-protection!

**Inhalation**

Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Call a physician.

**Skin Contact**

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Consult a physician if necessary.

**Eye contact**

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.

**Ingestion**

Rinse mouth. Drink plenty of water. If symptoms persist, call a physician.

**Self-protection of the first aider**

Use personal protective equipment as required.

#### 4.2. Most important symptoms and effects, both acute and delayed

**Symptoms**

None known

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

**Note to physicians**

Treat symptomatically.

### Section 5: FIRE-FIGHTING MEASURES

#### 5.1. Extinguishing media

**Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media**

No information available.

#### 5.2. Special hazards arising from the substance or mixture

No specific hazard known.

#### 5.3. Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

### Section 6: ACCIDENTAL RELEASE MEASURES

#### 6.1. 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.

For emergency responders
Use personal protection recommended in Section 8.

6.2. 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.

6.3. Methods and material for containment and cleaning up
Methods for cleaning up
Take up mechanically, placing in appropriate containers for disposal.

6.4. Reference to other sections
Other Information
See also section 8,13

---

Section 7: HANDLING AND STORAGE

7.1. 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.

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. Wash contaminated clothing before reuse.

7.2. 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.

7.3. Specific end use(s)
Risk Management Methods (RMM)
The information required is contained in this Material Safety Data Sheet.

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Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>European Union</th>
<th>United Kingdom</th>
<th>France</th>
<th>Spain</th>
<th>Germany</th>
</tr>
</thead>
<tbody>
<tr>
<td>Captan 133-06-2</td>
<td>STEL 15 mg/m³</td>
<td>TWA: 5 mg/m³</td>
<td>TWA: 5 mg/m³</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>TWA: 5 mg/m³</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chemical Name</td>
<td>Italy</td>
<td>Portugal</td>
<td>Netherlands</td>
<td>Finland</td>
<td>Denmark</td>
</tr>
<tr>
<td>Captan 133-06-2</td>
<td>TWA: 5 mg/m³</td>
<td></td>
<td>TWA: 5 mg/m³</td>
<td>TWA: 5 mg/m³</td>
<td></td>
</tr>
<tr>
<td>Chemical Name</td>
<td>Austria</td>
<td>Switzerland</td>
<td>Poland</td>
<td>Norway</td>
<td>Ireland</td>
</tr>
<tr>
<td>Captan 133-06-2</td>
<td>STEL 10 mg/m³</td>
<td>TWA: 5 mg/m³</td>
<td>TWA: 5 mg/m³</td>
<td>TWA: 5 mg/m³</td>
<td>STEL: 15 mg/m³</td>
</tr>
</tbody>
</table>
8.2. Exposure controls

Engineering Controls
Ensure adequate ventilation, especially in confined areas.

Personal protective equipment
Eye/face protection
Tight sealing safety goggles.

Body Protection
Suitable protective clothing, Gloves made of plastic or rubber, Suitable protective clothing, Apron.

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. Wash contaminated clothing before reuse.

Environmental exposure controls
Do not allow into any sewer, on the ground or into any body of water. Local authorities should be advised if significant spillages cannot be contained. Prevent product from entering drains.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Method</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Physical state</td>
<td>granules</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Color</td>
<td>beige</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Odor</td>
<td>Aromatic</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No data available</td>
<td>CIPAC MT 75.3</td>
<td>solution (1 %)</td>
</tr>
<tr>
<td>pH</td>
<td>8.9 - 9.9</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Melting point/freezing point °C</td>
<td>No data available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Boiling point/boiling range °C</td>
<td>No data available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flash point °C</td>
<td>No data available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not Applicable</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not flammable</td>
<td>EEC A.10</td>
<td></td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits</td>
<td>No data available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vapor pressure kPa</td>
<td>No data available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vapor density</td>
<td>No data available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Relative density</td>
<td>No data available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Solubility(ies) mg/l</td>
<td>No data available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Partition Coefficient (n-octanol/water) Log Pow</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Autoignition temperature °C</td>
<td>174</td>
<td>EEC A.16</td>
<td></td>
</tr>
<tr>
<td>Decomposition temperature °C</td>
<td>No data available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kinematic viscosity mm²/s 40 °C</td>
<td>Not Applicable</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Not an explosive</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>No data available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bulk density g/ml</td>
<td>0.70</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Surface tension mN/m</td>
<td>Not Applicable</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity
No data available.

10.2. Chemical stability
Stable under normal conditions.

10.3. Possibility of hazardous reactions

None under normal processing.

10.4. Conditions to avoid

Heat, flames and sparks.

10.5. Incompatible materials

No information available

10.6. Hazardous decomposition products

None under normal use conditions.

Section 11: TOXICOLOGY INFORMATION

11.1. Information on toxicological effects

<table>
<thead>
<tr>
<th>Acute toxicity</th>
<th>Values</th>
<th>Species</th>
<th>Method</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral LD50 mg/kg</td>
<td>&gt; 2000</td>
<td>Rat</td>
<td>OECD 401</td>
<td></td>
</tr>
<tr>
<td>Dermal LD50 mg/kg</td>
<td>&gt; 5000</td>
<td>Rat</td>
<td>OPPTS 870.1200</td>
<td></td>
</tr>
<tr>
<td>Inhalation LC50 mg/l/4h</td>
<td></td>
<td></td>
<td></td>
<td>Not Applicable; granules;</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>Non-irritating to the skin</td>
<td>Rabbit</td>
<td>OECD 404</td>
<td></td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>Irritating to eyes</td>
<td>Rabbit</td>
<td>OECD 405</td>
<td></td>
</tr>
<tr>
<td>Respiratory/skin sensitization</td>
<td>Skin sensitizer</td>
<td>Guinea pig</td>
<td>OECD 406</td>
<td></td>
</tr>
</tbody>
</table>

Chronic toxicity

Germ cell mutagenicity
Chemical Name: Captan
- Not classified

Carcinogenicity
Chemical Name: Captan
- Carcinogenic category 2

Reproductive toxicity
Chemical Name: Captan
- Not toxic for the reproductive system

STOT - single exposure
Chemical Name: Captan
- No information available

STOT - repeated exposure
Chemical Name: Captan
- Not available

Aspiration hazard
Chemical Name: Captan
- No information available

Section 12: ECOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>Values</th>
<th>Species</th>
<th>Method</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral LD50 mg/kg</td>
<td>Rat</td>
<td>OECD 401</td>
<td></td>
</tr>
<tr>
<td>Dermal LD50 mg/kg</td>
<td>Rat</td>
<td>OPPTS 870.1200</td>
<td></td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>Non-irritating to the skin</td>
<td>Rabbit</td>
<td>OECD 404</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>Irritating to eyes</td>
<td>Rabbit</td>
<td>OECD 405</td>
</tr>
<tr>
<td>Respiratory/skin sensitization</td>
<td>Skin sensitizer</td>
<td>Guinea pig</td>
<td>OECD 406</td>
</tr>
</tbody>
</table>
12.1. Toxicity

Aquatic toxicity

<table>
<thead>
<tr>
<th>Acute toxicity</th>
<th>Values</th>
<th>Species</th>
<th>Method</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fish 96-hour LC50 mg/l</td>
<td>0.17</td>
<td>Oncorhynchus mykiss</td>
<td>OECD 203</td>
<td>Static</td>
</tr>
<tr>
<td>Crustacea 48-hour EC50 mg/l</td>
<td>6.48</td>
<td>Daphnia magna</td>
<td>OECD 202</td>
<td>semi-static</td>
</tr>
<tr>
<td>Algae 72-hour EC50 mg/l</td>
<td>63.7</td>
<td>Scenedesmus subspicatus</td>
<td>OECD 201</td>
<td></td>
</tr>
<tr>
<td>Other plants EC50 mg/l</td>
<td></td>
<td></td>
<td>OECD 221</td>
<td></td>
</tr>
</tbody>
</table>

Terrestrial Toxicity

Birds Oral LD50 mg/kg

Chemical Name

Captan : >2000 Mallard duck

Bees Oral LD50 μg/bee

Chemical Name

Captan : >100

12.2. Persistence and degradability

Abiotic Degradation

Water DT50 days

Chemical Name

Captan : <1 25 °C

Soil DT50 days

Chemical Name

Captan : 0.44 - 1.09 aerobic 25 °C

Biodegradation

Chemical Name

Captan : No information available

12.3. Bioaccumulative potential

Partition Coefficient (n-octanol/water) Log Pow

Chemical Name

Captan : 2.57 pH 7; 25 °C

Bioconcentration factor (BCF)

Chemical Name

Captan : 140

12.4. Mobility in soil

Adsorption/Desorption

Chemical Name

Captan : No information available No data available

12.5. Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB

12.6. Other adverse effects

No information available.
Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from residues/unused products
Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging
Improper disposal or reuse of this container may be dangerous and illegal.

Other Information
Waste codes should be assigned by the user based on the application for which the product was used.

Section 14: TRANSPORTATION INFORMATION

IMDG/IMO
14.1  UN/ID No 3077
14.2  Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Captan)
14.3  Hazard Class 9
14.4  Packing Group III
14.5  Marine pollutant Yes
14.6  Special precautions for user

RID/ADR
14.1  UN/ID No 3077
14.2  Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Captan)
14.3  Hazard Class 9
14.4  Packing Group III
14.5  Environmental hazard Yes
14.6  Special precautions for user

ICAO/IATA
14.1  UN/ID No 3077
14.2  Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Captan)
14.3  Hazard Class 9
14.4  Packing Group III
14.5  Environmental hazard Yes
14.6  Special precautions for user
14.7  Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not Applicable

Section 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.2. Chemical safety assessment
A chemical safety assessment according to regulation (EC) No. 1907/2006 is not required. A risk assessment was performed according to directive (EC) No. 91/414 or according to regulation (EC) No. 1107/2009.
Section 16: OTHER INFORMATION

Full text of R-phrases referred to under sections 2 and 3
- R23 - Toxic by inhalation
- R40 - Limited evidence of a carcinogenic effect
- R41 - Risk of serious damage to eyes
- R43 - May cause sensitization by skin contact
- R50 - Very toxic to aquatic organisms
- R36/38 - Irritating to eyes and skin
- R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Full text of H-Statements referred to under sections 2 and 3
- H315 - Causes skin irritation
- H317 - May cause an allergic skin reaction
- H318 - Causes serious eye damage
- H319 - Causes serious eye irritation
- H351 - Suspected of causing cancer
- H331 - Toxic if inhaled
- H400 - Very toxic to aquatic life
- H412 - Harmful to aquatic life with long lasting effects

Revision Note
*** - Change from previous version.

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Disclaimer
The information provided in this Material 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