



SAFETY DATA SHEET

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) Annex II

THROTTLE

Revision Date 01-Feb-2015

Version 2

Product No FNG56797-44/3

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R-18156 MCW-432 EW

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

1.1. Product identifier

THROTTLE

Pure substance/mixture Mixture

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]

Acute toxicity - Oral Category 4 - (H302)
Serious eye damage/eye irritation Category 2 - (H319)
Reproductive Toxicity Category 2 - (H361d)
Acute aquatic toxicity Category 1 - (H400)
Hazardous to the Aquatic Environment - Chronic Hazard Category 1 - (H410)

Classification according to Directive 67/548/EEC or 1999/45/EC

Full text of R-phrases: see section 16

Xn;R22 - Xi;R36 - Repr. cat. 3;R63 - N;R50-53

2.2. Label elements

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

Hazard pictograms**Signal word**

Warning

Hazard Statements

H302 - Harmful if swallowed
 H319 - Causes serious eye irritation
 H361d - Suspected of damaging the unborn child
 H410 - Very toxic to aquatic life with long lasting effects

Precautionary Statements

P102 - Keep out of reach of children
 P201 - Obtain special instructions before use
 P270 - Do not eat, drink or smoke when using this product
 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
 EUH208 - Contains Propanoic acid, 2-hydroxy-, 2-ethylhexyl ester. May produce an allergic reaction***

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**3.2 Mixture**

| Chemical Name | Weight-% | CAS No | EC No | Index No | Classification according to Regulation (EC) No. 1272/2008 [CLP] | Classification according to 67/548/EEC | M-Factor | REACH Registration Number |
|--|----------|-------------|--------------|--------------|---|---|----------------|---------------------------|
| Tebuconazole | 11-13.5 | 107534-96-3 | 403-640-2*** | 603-197-00-7 | Acute Tox. 4 (H302) Repr. 2 (H361d) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)*** | Xn; R22 Repr.Cat.3; R63 N; R50-53*** | M=1 M=10*** | - |
| Prochloraz | 22-27 | 67747-09-5 | 266-994-5 | 613-128-00-2 | Acute Tox. 4 (H302) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) | Xn; R22 N; R50-53 | M=1 M=10*** | - |
| Propanoic acid, 2-hydroxy-, 2-ethylhexyl ester | 40-45 | 186817-80-1 | - | - | Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1 (H317) | Xi;R36/38 R43 | | - |

| | | | | | | | | |
|--------------------------------|-------|----------|-----------|---|--|-------------|--|---|
| Sodium dioctyl sulphosuccinate | 1.5-3 | 577-11-7 | 209-406-4 | - | Skin Irrit. 2 (H315) Eye Dam. 1 (H318) *** | Xi; R38-R41 | | - |
|--------------------------------|-------|----------|-----------|---|--|-------------|--|---|

Full text of R-phrases: see section 16

Full text of H- and EUH-phrases: see section 16

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

In the event of fire, wear self-contained breathing apparatus
In the event of fire and/or explosion do not breathe fumes

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions

Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

For emergency responders

Use personal protection recommended in Section 8.

6.2. Environmental precautions

Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

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

Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse. When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended.

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.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1. Control parameters**

Derived No Effect Level (DNEL) No information available

Predicted No Effect Concentration (PNEC) No information available.

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

General Hygiene Considerations Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse. When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended.

Environmental exposure controls Do not allow into any sewer, on the ground or into any body of water.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

| <u>Property</u> | <u>Values</u> | <u>Method</u> | <u>Remarks</u> |
|--|----------------------------|---------------|-------------------------------------|
| Appearance | | | |
| Physical state | : Liquid | | |
| Color | : orange light brown | | |
| Odor | : No information available | | |
| Odor threshold | : No data available | | |
| pH | : 6.8-7.8 | CIPAC MT 75.3 | solution (1 %) |
| Melting point/freezing point °C | : No data available | | |
| Boiling point/boiling range °C | : No data available | | |
| Flash point °C | : 154 | EEC A.9 | |
| Evaporation rate | : Not Applicable | | |
| Flammability (solid, gas) | : Not Applicable | | |
| Upper/lower flammability or explosive limits | : No data available | | |
| Vapor pressure kPa | : No data available | | |
| Vapor density | : No data available | | |
| Relative density | : 1.04-1.12 | EEC A.3 | |
| Solubility(ies) mg/l | : No data available | | |
| Partition Coefficient (n-octanol/water) Log Pow | : | | See Section 12 for more information |
| Autoignition temperature °C | : 275 | EEC A.15 | |
| Decomposition temperature °C | : No data available | | |
| Kinematic viscosity mm²/s 40 °C | : 43.469 | OECD 114 | |
| Explosive properties | : Not an explosive | | |
| Oxidizing properties | : No data available | | |

9.2. Other information

| | | | |
|-----------------------------|--------|------------------|--|
| Bulk density g/ml | : | | |
| Surface tension mN/m | : 35.6 | OECD 115 EEC A.5 | |

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

Not 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

Acute toxicity

| | <u>Values</u> | <u>Species</u> | <u>Method</u> | <u>Remarks</u> |
|-----------------------------------|------------------------------|----------------|---------------|----------------|
| Oral LD50 mg/kg | : 2000 | Rat | OECD 423 | |
| Dermal LD50 mg/kg | : >2000 | Rat | OECD 402 | |
| Inhalation LC50 mg/l/4h | : >5.35 | Rat | OECD 403 | |
| Skin corrosion/irritation | : Non-irritating to the skin | Rabbit | OECD 404 | |
| Serious eye damage/eye irritation | : Irritating to eyes | Rabbit | OECD 405 | |
| Respiratory/skin sensitization | : Not a skin sensitizer*** | Guinea pig | OECD 406 | |

Chronic toxicity

Germ cell mutagenicity

Chemical Name

Tebuconazole : Not classified
Prochloraz : Not classified***

Carcinogenicity

Chemical Name

Tebuconazole : Not classified
Prochloraz : Not classified***

Reproductive toxicity

Chemical Name

Tebuconazole : H361d - Suspected of damaging the unborn child
Prochloraz : Not classified***

STOT - single exposure

Chemical Name

Tebuconazole : No information available
Prochloraz : No data available***

STOT - repeated exposure

Chemical Name

Tebuconazole : No information available
Prochloraz : No data available***

Aspiration hazard

Chemical Name

Tebuconazole : No information available
Prochloraz : No data available***

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Aquatic toxicity

| | <u>Values</u> | <u>Species</u> | <u>Method</u> | <u>Remarks</u> |
|------------------------------------|---------------|---------------------------|---------------|----------------|
| Acute toxicity | | | | |
| Fish 96-hour LC50 mg/l | : 1.77 | Oncorhynchus mykiss | OECD 203 | Static |
| Crustacea 48-hour EC50 mg/l | : 12 | Daphnia magna | OECD 202 | |
| Algae 72-hour EC50 mg/l | : 0.41 | Selenastrum capricornutum | OECD 201 | Static |
| Other plants EC50 mg/l | : | | *** | *** |

Terrestrial Toxicity**Birds Oral LD50 mg/kg****Chemical Name**

| | | | | |
|--------------|----------|-------------------|----------------|--|
| Tebuconazole | : 1988 | Bobwhite quail | | |
| Prochloraz | : 624*** | Bobwhite quail*** | US EPA 71-1*** | |

Bees Oral LD50 µg/bee**Chemical Name**

| | | | | |
|--------------|----------|--|--|---------|
| Tebuconazole | : 83.05 | | | Oral*** |
| Prochloraz | : 684*** | | | |

12.2. Persistence and degradability**Abiotic Degradation****Water DT50 days****Chemical Name**

| | <u>Values</u> | <u>Method</u> | <u>Remarks</u> |
|--------------|---------------|---------------|----------------|
| Tebuconazole | : 365 | | |
| Prochloraz | : 11.7*** | | |

Soil DT50 days**Chemical Name**

| | | | |
|--------------|-------------|--|--|
| Tebuconazole | : 34.8 | | |
| Prochloraz | : 223.62*** | | |

Biodegradation**Chemical Name**

| | | | |
|--------------|--------------------------------|---------------|--|
| Tebuconazole | : Not readily biodegradable | OECD 301B | |
| Prochloraz | : Not readily biodegradable*** | OECD 301 D*** | |

12.3. Bioaccumulative potential**Partition Coefficient****(n-octanol/water) Log Pow****Chemical Name**

| | <u>Values</u> | <u>Method</u> | <u>Remarks</u> |
|--------------|---------------|---------------|----------------|
| Tebuconazole | : 3.7 | | |
| Prochloraz | : 4.3*** | EEC A.8*** | 20-25 ° C*** |

Bioconcentration factor (BCF)**Chemical Name**

| | | | |
|--------------|--------------|--|--|
| Tebuconazole | : 78 | | |
| Prochloraz | : 150-247*** | | |

12.4. Mobility in soil**Adsorption/Desorption****Chemical Name**

| | <u>Values</u> | <u>Method</u> | <u>Remarks</u> |
|--------------|----------------|---------------|----------------|
| Tebuconazole | : 769 | | Koc |
| Prochloraz | : 1222-8654*** | | Koc*** |

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 | 3082 |
| 14.2 Proper shipping name | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Tebuconazole, Prochloraz) |
| 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 | 3082 |
| 14.2 Proper shipping name | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Tebuconazole, Prochloraz) |
| 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 | 3082 |
| 14.2 Proper shipping name | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Tebuconazole, Prochloraz) |
| 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

R43 - May cause sensitization by skin contact

R22 - Harmful if swallowed

R63 - Possible risk of harm to the unborn child

R36/38 - Irritating to eyes and skin

R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

R51/53 - Toxic 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

H302 - Harmful if swallowed

H361d - Suspected of damaging the unborn child

H411 - Toxic to aquatic life with long lasting effects

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H317 - May cause an allergic skin reaction

H318 - Causes serious eye damage

H400 - Very toxic to aquatic life

H410 - Very toxic 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