

SECTION 1: Identification

1.1. Identification

Product form : Mixture
 Product name : Amitron® 700WG Herbicide

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

Recommended use : Herbicide
 Restrictions on use : No additional information available

1.3. Details of the supplier of the safety data sheet

Arysta LifeScience Australia Pty Ltd
 c/o Level 3, 70 Hindmarsh Square
 Adelaide, SA 5000 - Australia
 T +61 8 8112 0900

1.4. Emergency telephone number

Emergency number : 1800 033 111 (24-h Emergency Response Service Australia) IXOM
 +61 3 9663 2130 (International)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS classification

Acute Tox. 4 (Oral) H302
 Acute Tox. 4 (Inhalation:dust,mist) H332
 Eye Irrit. 2B H320
 STOT SE 3 H335
 Aquatic Acute 1 H400
 Comb. Dust

Full text of hazard classes and H-statements : see section 16

2.2. Label elements

GHS labelling

Hazard pictograms (GHS) :



GHS07

GHS09

Signal word (GHS) :

Warning

Hazard statements (GHS) :

May form combustible dust concentrations in air
 H302+H332 - Harmful if swallowed or if inhaled
 H320 - Causes eye irritation
 H335 - May cause respiratory irritation.
 H400 - Very toxic to aquatic life.

Precautionary statements (GHS) :

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
 P264 - Wash hands, forearms and face thoroughly after handling.
 P270 - Do not eat, drink or smoke when using this product
 P271 - Use only outdoors or in a well-ventilated area.
 P273 - Avoid release to the environment.
 P301+P312 - If swallowed: Call a poison center/doctor/... if you feel unwell
 P304+P340 - If inhaled: Remove person to fresh air and keep 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.
 P312 - Call a poison center/doctor/... if you feel unwell
 P330 - Rinse mouth.
 P337+P313 - If eye irritation persists: Get medical advice/attention.
 P391 - Collect spillage.
 P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
 P405 - Store locked up.

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P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS)

Not applicable.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % (w/w) | GHS classification |
|---|-----------------------|---------|--|
| Amicarbazone; 4-amino-N-(1,1-dimethylethyl)-4,5-dihydro-3-(1-methylethyl)-5-oxo-1H-1,2,4-triazole-1-carboxamide | (CAS-No.) 129909-90-6 | 71.5 | Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335 Aquatic Acute 1, H400 Comb. Dust |

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
|---------------------------------------|--|
| First-aid measures general | : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). |
| First-aid measures after inhalation | : Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell. |
| First-aid measures after skin contact | : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. |
| First-aid measures after eye contact | : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| First-aid measures after ingestion | : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a POISON CENTER/doctor if you feel unwell. |

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

| | |
|------------------------------------|--|
| Symptoms/effects after inhalation | : Danger of serious damage to health by prolonged exposure through inhalation. Harmful if inhaled. May cause respiratory irritation. |
| Symptoms/effects after eye contact | : Causes eye irritation. |
| Symptoms/effects after ingestion | : Swallowing a small quantity of this material will result in serious health hazard. Harmful if swallowed. |

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

| | |
|--------------------------------|--|
| Suitable extinguishing media | : Foam. Dry powder. Carbon dioxide. Water spray. Sand. |
| Unsuitable extinguishing media | : Do not use a heavy water stream. |

5.2. Special hazards arising from the substance or mixture

| | |
|------------------|---|
| Fire hazard | : Combustible Dust. |
| Explosion hazard | : Dust may form explosive mixture in air. |
| Reactivity | : No dangerous reactions known. |

5.3. Advice for firefighters

| | |
|--------------------------------|---|
| Firefighting instructions | : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment. |
| Protection during firefighting | : Do not enter fire area without proper protective equipment, including respiratory protection. |

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Avoid creating or spreading dust. Avoid contact with skin and eyes.

6.1.1. For non-emergency personnel

Protective equipment : Chemical goggles or safety glasses. Dust impervious gloves.

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Chemical goggles or safety glasses. Dust impervious gloves.

Emergency procedures : Ventilate area.

6.2. Environmental precautions

Notify authorities if product enters sewers or public waters. Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

For containment : Avoid generating dust.

Methods for cleaning up : Absorb and/or contain spill with inert material, then place in suitable container.

6.4. Reference to other sections

Section 13: disposal information. Section 7: safe handling. Section 8: personal protective equipment.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Use only outdoors or in a well-ventilated area. Avoid breathing dust, fume.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash your hands immediately after handling this product, and once again before leaving the workplace.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool well ventilated place. Keep container tightly closed.

Incompatible products : Strong bases. Strong acids. Strong oxidizers.

Incompatible materials : Sources of ignition. Direct sunlight.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| Amitron® 700WG Herbicide | |
|---|----------------|
| ACGIH | Not applicable |
| OSHA | Not applicable |
| Amicarbazone; 4-amino-N-(1,1-dimethylethyl)-4,5-dihydro-3-(1-methylethyl)-5-oxo-1H-1,2,4-triazole-1-carboxamide (129909-90-6) | |
| ACGIH | Not applicable |
| OSHA | Not applicable |

8.2. Exposure controls

Appropriate engineering controls : Avoid dispersal of dust in the air (ie, clearing dust surfaces with compressed air). Use only outdoors or in a well-ventilated area.

Personal protective equipment : Avoid all unnecessary exposure.

Hand protection : Use rubber gloves. PVC. Fluoroelastomer (FKM). Butyl rubber gloves.

Eye protection : In case of dust production: protective goggles.

Respiratory protection : Wear appropriate mask.

Other information : Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid

Appearance : granules.

Colour : Beige

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| | |
|--|--------------------------|
| Odour | : slight characteristic |
| Odour threshold | : No data available |
| pH | : No data available |
| Melting point | : No data available |
| Freezing point | : No data available |
| Boiling point | : No data available |
| Flash point | : No data available |
| Relative evaporation rate (butylacetate=1) | : No data available |
| Flammability (solid, gas) | : No data available |
| Explosive limits | : No data available |
| Explosive properties | : No data available |
| Oxidising properties | : No data available |
| Vapour pressure | : No data available |
| Relative density | : No data available |
| Relative vapour density at 20 °C | : No data available |
| Density | : 0.48 g/cm ³ |
| Solubility | : Dispersible. |
| Log Pow | : No data available |
| Log Kow | : No data available |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Viscosity | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : No data available |

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Heat. Direct sunlight.

10.5. Incompatible materials

Strong oxidizers.

10.6. Hazardous decomposition products

Thermal decomposition generates : Nitrogen oxides. Carbon oxides (CO, CO₂).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

| | |
|---------------------------|---|
| Likely routes of exposure | : Inhalation; Skin and eye contact |
| Acute toxicity | : Oral: Harmful if swallowed. Inhalation:dust,mist: Harmful if inhaled. |

| Amitron® 700WG Herbicide | |
|----------------------------|-------------------------------------|
| LD50 oral rat | 1015 mg/kg female; >2000 mg/kg male |
| LD50 dermal rat | > 5000 mg/kg |
| LC50 inhalation rat (mg/l) | > 2030 mg/m ³ male |
| ATE US (oral) | 1015 mg/kg bodyweight |
| ATE US (dust,mist) | 2.098 mg/l/4h |

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| Amicarbazon; 4-amino-N-(1,1-dimethylethyl)-4,5-dihydro-3-(1-methylethyl)-5-oxo-1H-1,2,4-triazole-1-carboxamide (129909-90-6) | |
|---|------------------------------------|
| LD50 oral rat | 1015 mg/kg female; 1300 mg/kg male |
| LD50 dermal rat | > 2000 mg/kg |
| LC50 inhalation rat (mg/l) | > 2 mg/l/4h |
| ATE US (oral) | 1015 mg/kg bodyweight |
| ATE US (dust,mist) | 1.5 mg/l/4h |

| | |
|--|--|
| Skin corrosion/irritation | : Not classified. |
| Serious eye damage/irritation | : Causes eye irritation. |
| Respiratory or skin sensitisation | : Not classified |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |
| Reproductive toxicity | : Not classified |
| Specific target organ toxicity (single exposure) | : May cause respiratory irritation. |
| Specific target organ toxicity (repeated exposure) | : Not classified |
| Aspiration hazard | : Not classified |
| Symptoms/effects after inhalation | : Danger of serious damage to health by prolonged exposure through inhalation. Harmful if inhaled. May cause respiratory irritation. |
| Symptoms/effects after eye contact | : Causes eye irritation. |
| Symptoms/effects after ingestion | : Swallowing a small quantity of this material will result in serious health hazard. Harmful if swallowed. |

SECTION 12: Ecological information

12.1. Toxicity

Ecology - water : Very toxic to aquatic life.

| Amicarbazon; 4-amino-N-(1,1-dimethylethyl)-4,5-dihydro-3-(1-methylethyl)-5-oxo-1H-1,2,4-triazole-1-carboxamide (129909-90-6) | |
|---|-------------------------------|
| LC50 fish 1 | > 120 mg/l 96 h Bluegill |
| EC50 Daphnia 1 | 40.8 mg/l 48 h |
| EC50 other aquatic organisms 1 | 0.226 mg/l Duckweed |
| LC50 fish 2 | > 128 mg/l 96 h Rainbow trout |

12.2. Persistence and degradability

| Amitron® 700WG Herbicide | |
|---------------------------------|------------------|
| Persistence and degradability | Not established. |

| Amicarbazon; 4-amino-N-(1,1-dimethylethyl)-4,5-dihydro-3-(1-methylethyl)-5-oxo-1H-1,2,4-triazole-1-carboxamide (129909-90-6) | |
|---|-------------------------------|
| Persistence and degradability | Product may persist in water. |

12.3. Bioaccumulative potential

| Amitron® 700WG Herbicide | |
|---------------------------------|------------------|
| Bioaccumulative potential | Not established. |

| Amicarbazon; 4-amino-N-(1,1-dimethylethyl)-4,5-dihydro-3-(1-methylethyl)-5-oxo-1H-1,2,4-triazole-1-carboxamide (129909-90-6) | |
|---|--------------------------------|
| BCF fish 1 | 2 |
| Log Kow | 1.23 |
| Bioaccumulative potential | Not expected to bioaccumulate. |

12.4. Mobility in soil

| Amicarbazon; 4-amino-N-(1,1-dimethylethyl)-4,5-dihydro-3-(1-methylethyl)-5-oxo-1H-1,2,4-triazole-1-carboxamide (129909-90-6) | |
|---|---------------------------------------|
| Ecology - soil | Expected to be highly mobile in soil. |

12.5. Other adverse effects

Other information : Avoid release to the environment.

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

- Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

Department of Transportation (ADG)

In accordance with ADG

- Transport document description : UN3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (amicarbazone), 9, III
UN-No.(ADG) : UN3077
Proper Shipping Name (ADG) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (amicarbazone)
Packing group (ADG) : III - Minor Danger
Hazard labels (ADG) : 9 - Class 9 (Miscellaneous dangerous materials)



- Dangerous for the environment : Yes
Marine pollutant : Yes




Additional information

- Emergency Response Guide (ERG) Number : 171
Other information : No supplementary information available.

Transport by sea

IMDG

- Transport hazard class(es) (IMDG) : 9
:

Marine pollutant : Yes
UN-No. (IMDG) : 3077
Transport document description (IMDG) : UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (amicarbazone), 9, III, MARINE POLLUTANT
Class (IMDG) : 9 - Miscellaneous dangerous substances and articles
Packing group (IMDG) : III - substances presenting low danger
EmS-No. (Fire) : F-A
EmS-No. (Spillage) : S-F

Air transport

IATA

- Transport hazard class(es) (IATA) : 9
:



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| | |
|---------------------------------------|---|
| Marine pollutant | : Yes |
| UN-No. (IATA) | : 3077 |
| Transport document description (IATA) | : UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (amicarbazone), 9, III |
| Class (IATA) | : 9 - Miscellaneous Dangerous Goods |
| Packing group (IATA) | : III - Minor Danger |

SECTION 15: Regulatory information

Amicarbazone; 4-amino-N-(1,1-dimethylethyl)-4,5-dihydro-3-(1-methylethyl)-5-oxo-1H-1,2,4-triazole-1-carboxamide (129909-90-6)

Not listed on the AICS (Australian Inventory of Chemical Substances)

SECTION 16: Other information

| | |
|-------------------|---|
| Data sources | : European Chemicals Agency (ECHA) Registered Substances list. Accessed at http://echa.europa.eu/ . Krister Forsberg and S.Z. Mansdorf, "Quick Selection Guide to Chemical Protective Clothing", Fifth Edition. OSHA 29CFR 1910.1200 Hazard Communication Standard. TSCA Chemical Substance Inventory. Accessed at http://www.epa.gov/oppt/existingchemicals/pubs/tscainventory/howto.html . Australia Worksafe "Preparation of Safety Data Sheets for Hazardous Chemicals". |
| Other information | : None. |

Full text of H-statements:

| | |
|-------------------------------------|--|
| Acute Tox. 4 (Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) Category 4 |
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4 |
| Aquatic Acute 1 | Hazardous to the aquatic environment — Acute Hazard, Category 1 |
| Comb. Dust | Combustible Dust |
| Eye Irrit. 2A | Serious eye damage/eye irritation, Category 2A |
| Eye Irrit. 2B | Serious eye damage/eye irritation, Category 2B |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 |
| STOT SE 3 | Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation |
| H302 | Harmful if swallowed. |
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H320 | Causes eye irritation |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H400 | Very toxic to aquatic life. |

Abbreviations and acronyms:

| | |
|--|---|
| | ACGIH (American Conference of Government Industrial Hygienists) |
| | ATE: Acute Toxicity Estimate |
| | CAS (Chemical Abstracts Service) number |
| | CLP: Classification, Labelling, Packaging. |
| | EC50: Environmental Concentration associated with a response by 50% of the test population. |
| | GHS: Globally Harmonized System (of Classification and Labeling of Chemicals) |
| | LD50: Lethal Dose for 50% of the test population |
| | OSHA: Occupational Safety & Health Administration |
| | STEL: Short Term Exposure Limits |
| | TSCA: Toxic Substances Control Act |
| | TWA: Time Weighted Average |

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product