

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Product form : Mixture
Trade name : Metric
Product code : BCP205H
Type of product : ZC (Mixture of capsule suspension (CS) and suspension concentrate (SC))
Other means of identification : Metribuzin 233 g/L; Clomazone 60 g/l

1.2. Relevant identified uses of the substance or mixture and uses advised against**1.2.1. Relevant identified uses**

Main use category : Professional use
Use of the substance/mixture : Herbicide
Function or use category : Plant protection products

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Belchim Crop Protection NV/SA
Technologielaan 7
1840 Londerzeel - Belgium
T +32 (0)52 30 09 06 - F +32 (0)52 30 11 35
info@belchim.com - www.belchim.com

1.4. Emergency telephone number

Emergency number : +32(0)14584545
24 H/7 days/English/French/German/Dutch

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Hazardous to the aquatic environment — Acute Hazard, Category 1 H400
Hazardous to the aquatic environment — Chronic Hazard, Category 1 H410
Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

Very toxic to aquatic life with long lasting effects.

2.2. Label elements**Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

Hazard pictograms (CLP) :



GHS09

Signal word (CLP) : Warning
Hazard statements (CLP) : H410 - Very toxic to aquatic life with long lasting effects.
Precautionary statements (CLP) : P273 - Avoid release to the environment.
P391 - Collect spillage.
P501 - Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste
EUH-statements : EUH401 - To avoid risks to human health and the environment, comply with the instructions for use.

2.3. Other hazards

PBT: not relevant – no registration required
vPvB: not relevant – no registration required

SECTION 3: Composition/information on ingredients**3.1. Substances**

Not applicable

Metric

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

3.2. Mixtures

| Name | Product identifier | Conc. (% w/w) | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|--|---|---------------|--|
| metribuzin (ISO); 4-amino-6-tert-butyl-3-methylthio-1,2,4-triazin-5(4H)-one; 4-amino-4,5-dihydro-6-(1,1-dimethylethyl)-3-methylthio-1,2,4-triazin-5-one (Pesticide and active ingredients) | (CAS-No.) 21087-64-9 (EC-No.) 244-209-7 (EC Index-No.) 606-034-00-8 | ≈ 19.3 | Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10) |
| Sodium Nitrate | (CAS-No.) 7631-99-4 (EC-No.) 231-554-3 | < 10 | Ox. Sol. 3, H272 Eye Irrit. 2, H319 |
| Calcium Chloride | (CAS-No.) 10043-52-4 (EC-No.) 233-140-8 (EC Index-No.) 017-013-00-2 | < 10 | Eye Irrit. 2, H319 |
| Polymer of Lignosulfonic acid, sodium salt, sulfomethylated | (CAS-No.) 68512-34-5 (EC-No.) 614-547-3 | < 10 | Eye Irrit. 2, H319 |
| Clomazone (active ingredient of capsule suspension) (Pesticide and active ingredients) | (CAS-No.) 81777-89-1 (EC-No.) 617-258-0 | ≈ 5 | Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures general : Call a poison center or a doctor if you feel unwell.
- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
- First-aid measures after skin contact : Wash skin with plenty of water.
- First-aid measures after eye contact : Rinse eyes with water as a precaution.
- First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

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

- Symptoms/effects : There are potential chronic health effects to consider.

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 : Water spray. Dry powder. Foam. Carbon dioxide.
- Unsuitable extinguishing media : Do not use extinguishing media containing water.

5.2. Special hazards arising from the substance or mixture

- Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Advice for firefighters

- Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

- Emergency procedures : Ventilate spillage area.

6.1.2. For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment. Do not discharge into drains or the environment.

6.3. Methods and material for containment and cleaning up

- For containment : Collect spillage.
- Methods for cleaning up : Take up liquid spill into absorbent material.
- Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.
Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool. Keep out of reach of children. Keep away from food, drink and animal feeding stuffs. Keep container closed when not in use.
Maximum storage period : > 2 months
Packaging materials : Polyethylene (high density).

7.3. Specific end use(s)

Herbicide.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station. Ensure good ventilation of the work station.

Personal protective equipment:

Protective clothing. Gloves.

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Personal protective equipment symbol(s):



Environmental exposure controls:

Avoid release to the environment.

Other information:

Do not eat, drink or smoke when using this product. Wash hands with water and soap. Wash hands and face before break and at end of works.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Appearance : Viscous.
Colour : light brown.
Odour : slightly. aromatic.
Odour threshold : No data available
pH : 6
pH solution : ≈ 8.3 (1%; 20°C)
Relative evaporation rate (butylacetate=1) : No data available
Melting point : Not applicable
Freezing point : No data available
Boiling point : No data available
Flash point : No data available
Auto-ignition temperature : 330 °C
Decomposition temperature : No data available

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| | |
|----------------------------------|--|
| Flammability (solid, gas) | : Not applicable, Non flammable. |
| Vapour pressure | : No data available |
| Relative vapour density at 20 °C | : No data available |
| Relative density | : No data available |
| Density | : ≈ 1.207 g/ml (20 °C) |
| Solubility | : No data available |
| Log Pow | : No data available |
| Viscosity, kinematic | : 61.6 - 133.1 mm ² /s (40 °C - 20 °C) |
| Viscosity, dynamic | : No data available |
| Explosive properties | : None. |
| Oxidising properties | : None. Non oxidizing material according to EC criteria. |
| Explosive limits | : No data available |
| 9.2. Other information | |
| Additional information | : Surface tension : 55.2 mN/m (20 °C) |

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

| | |
|-----------------------------|--|
| Acute toxicity (oral) | : Not classified |
| Acute toxicity (dermal) | : Not classified |
| Acute toxicity (inhalation) | : Not classified |
| Additional information | : Based on available data, the classification criteria are not met |

| Metric | |
|-----------------|----------------------------------|
| LD50 oral rat | > 2000 (≤ 5000) mg/kg (OECD 423) |
| LD50 dermal rat | > 2000 mg/kg (OECD 402) |

metribuzin (ISO); 4-amino-6-tert-butyl-3-methylthio-1,2,4-triazin-5(4H)-one; 4-amino-4,5-dihydro-6-(1,1-dimethylethyl)-3-methylthio-1,2,4-triazin-5-one (21087-64-9)

| | |
|----------------------------|-----------------|
| LD50 oral rat | 322 mg/kg |
| LD50 dermal rat | > 5000 mg/kg |
| LC50 inhalation rat (mg/l) | > 2.045 mg/l/4h |

Clomazone (active ingredient of capsule suspension) (81777-89-1)

| | |
|----------------------------|---------------------------|
| LD50 oral rat | 768 mg/kg (OECD 425) |
| LD50 dermal rabbit | > 2000 mg/kg (OECD 402) |
| LC50 inhalation rat (mg/l) | > 5.02 mg/l/4h (OECD 403) |

| | |
|-------------------------------|--|
| Skin corrosion/irritation | : Not classified pH: 6 |
| Additional information | : Based on available data, the classification criteria are not met (OECD 404 method) |
| Serious eye damage/irritation | : Not classified pH: 6 |

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| | |
|-----------------------------------|--|
| Additional information | : Slightly irritating to rabbits on ocular application Based on available data, the classification criteria are not met (OECD 405 method) |
| Respiratory or skin sensitisation | : Not classified |
| Additional information | : Based on available data, the classification criteria are not met (OECD 406 method) |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |
| Reproductive toxicity | : Not classified |
| STOT-single exposure | : Not classified |
| STOT-repeated exposure | : Not classified |
| Aspiration hazard | : Not classified |

| Metric | |
|----------------------|---|
| Viscosity, kinematic | 61.6 - 133.1 mm ² /s (40 °C - 20 °C) |

SECTION 12: Ecological information

12.1. Toxicity

| | |
|--------------------------|---|
| Ecology - general | : Very toxic to aquatic life with long lasting effects. |
| Acute aquatic toxicity | : Very toxic to aquatic life. |
| Chronic aquatic toxicity | : Very toxic to aquatic life with long lasting effects. |

| Metric | |
|--------------------|--|
| LC50 fish 1 | > 100 mg/l (96 H; Oncorhynchus mykiss) |
| EC50 Daphnia 1 | ≈ 72 mg/l (48 H; Daphnia magna) |
| ErC50 (algae) | 0.151 mg/l (72 H; Desmodesmus subspicatus) |
| NOEC chronic algae | 0.05 mg/l (72 H; Desmodesmus subspicatus) |

metribuzin (ISO); 4-amino-6-tert-butyl-3-methylthio-1,2,4-triazin-5(4H)-one; 4-amino-4,5-dihydro-6-(1,1-dimethylethyl)-3-methylthio-1,2,4-triazin-5-one (21087-64-9)

| | |
|----------------|--|
| LC50 fish 1 | 74 mg/l (96 H; Oncorhynchus mykiss) |
| EC50 Daphnia 1 | 49.6 mg/l (48 H; Daphnia magna) |
| ErC50 (algae) | 0.022 mg/l (72 H; Desmodesmus subspicatus) |

Clomazone (active ingredient of capsule suspension) (81777-89-1)

| | |
|------------------------|--|
| LC50 fish 1 | 34 mg/l (96 H; Lepomis macrochirus) |
| EC50 Daphnia 1 | 40.8 mg/l (48 H; Daphnia magna) |
| EC50 72h algae (1) | 2 mg/l (72 H; Selenastrum capricornutum) |
| NOEC chronic fish | 2.3 mg/l (57 d; Oncorhynchus mykiss) |
| NOEC chronic crustacea | 2.2 mg/l (21 d; Daphnia magna) |
| NOEC chronic algae | 0.136 mg/l (120 H; Navicula pelliculosa) |

12.2. Persistence and degradability

| Metric | |
|-------------------------------|---|
| Persistence and degradability | No supplementary information available. |

metribuzin (ISO); 4-amino-6-tert-butyl-3-methylthio-1,2,4-triazin-5(4H)-one; 4-amino-4,5-dihydro-6-(1,1-dimethylethyl)-3-methylthio-1,2,4-triazin-5-one (21087-64-9)

| | |
|-------------------------------|----------------------------|
| Persistence and degradability | Not readily biodegradable. |
|-------------------------------|----------------------------|

Clomazone (active ingredient of capsule suspension) (81777-89-1)

| | |
|-------------------------------|----------------------------|
| Persistence and degradability | Not readily biodegradable. |
|-------------------------------|----------------------------|

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12.3. Bioaccumulative potential

| Metric | |
|---------------------------|------------------|
| Bioaccumulative potential | Not established. |

metribuzin (ISO); 4-amino-6-tert-butyl-3-methylthio-1,2,4-triazin-5(4H)-one; 4-amino-4,5-dihydro-6-(1,1-dimethylethyl)-3-methylthio-1,2,4-triazin-5-one (21087-64-9)

| | |
|---------------------------|---------------------|
| Bioaccumulative potential | No bioaccumulation. |
|---------------------------|---------------------|

Clomazone (active ingredient of capsule suspension) (81777-89-1)

| | |
|---------------------------|--------------------------------|
| Log Kow | 2.58 (pH 7; 20 °C) |
| Bioaccumulative potential | Low bioaccumulation potential. |

12.4. Mobility in soil

metribuzin (ISO); 4-amino-6-tert-butyl-3-methylthio-1,2,4-triazin-5(4H)-one; 4-amino-4,5-dihydro-6-(1,1-dimethylethyl)-3-methylthio-1,2,4-triazin-5-one (21087-64-9)

| | |
|---------|----------|
| Log Koc | 24 - 106 |
|---------|----------|

12.5. Results of PBT and vPvB assessment

| Metric |
|---|
| PBT: not relevant – no registration required |
| vPvB: not relevant – no registration required |

12.6. Other adverse effects

Other adverse effects : No supplementary information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

| ADR | IMDG | IATA | ADN | RID |
|--|---|---|---|---|
| Special provision(s) applied : 375 | Special provision(s) applied : 969 | Special provision(s) applied : A197 | Special provision(s) applied : 375 | Special provision(s) applied : 375 |
| 14.1. UN number | | | | |
| UN 3082 | UN 3082 | UN 3082 | UN 3082 | UN 3082 |
| 14.2. UN proper shipping name | | | | |
| ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Metribuzin, Clomazone) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Metribuzin, Clomazone) | Environmentally hazardous substance, liquid, n.o.s. (Metribuzin, Clomazone) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Metribuzin, Clomazone) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Metribuzin, Clomazone) |
| Transport document description | | | | |
| UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Metribuzin, Clomazone), 9, III, (-) | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Metribuzin, Clomazone), 9, III, MARINE POLLUTANT | UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Metribuzin, Clomazone), 9, III | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Metribuzin, Clomazone), 9, III | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Metribuzin, Clomazone), 9, III |
| 14.3. Transport hazard class(es) | | | | |
| 9 | 9 | 9 | 9 | 9 |

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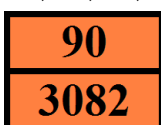
| | | | | |
|--|---|-------------------------------------|-------------------------------------|-------------------------------------|
| | | | | |
| 14.4. Packing group | | | | |
| III | III | III | III | III |
| 14.5. Environmental hazards | | | | |
| Dangerous for the environment : Yes | Dangerous for the environment : Yes Marine pollutant : Yes | Dangerous for the environment : Yes | Dangerous for the environment : Yes | Dangerous for the environment : Yes |
| No supplementary information available | | | | |

14.6. Special precautions for user

Overland transport

Special provisions (ADR) : 274, 335, 375, 601

Orange plates :



Transport by sea

No data available

Air transport

No data available

Inland waterway transport

Classification code (ADN) : M6

Number of blue cones/lights (ADN) : 0

Rail transport

No data available

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

Substance(s) are not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC.

15.1.2. National regulations

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

| Indication of changes: | | | |
|------------------------|-------------------------------|----------|----------|
| Section | Changed item | Change | Comments |
| | Flammability (solid, gas) | Modified | |
| | Revision date | Modified | |
| 1.1 | Other means of identification | Added | |
| 1.2 | Function or use category | Added | |
| 2.2 | UFI | Added | |

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| | | | |
|------|--|----------|--|
| 3 | Composition/information on ingredients | Modified | |
| 7.2 | Maximum storage period | Added | |
| 7.2 | Packaging materials | Added | |
| 9.1 | Oxidising properties | Modified | |
| 9.1 | Viscosity, kinematic | Modified | |
| 9.1 | Odour | Modified | |
| 9.2 | Additional information | Added | |
| 11.1 | Additional information | Added | |
| 11.1 | Additional information | Added | |
| 11.1 | Additional information | Added | |
| 12.1 | ErC50 (algae) | Added | |
| 12.1 | NOEC chronic algae | Added | |
| 12.1 | LC50 fish 1 | Modified | |
| 12.1 | EC50 Daphnia 1 | Modified | |
| 16 | Data sources | Added | |

Data sources

: SDS of suppliers.

ECHA (European Chemicals Agency).

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

| Full text of H- and EUH-statements: | |
|-------------------------------------|---|
| Acute Tox. 4 (Inhalation) | Acute toxicity (inhal.), Category 4 |
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4 |
| Aquatic Acute 1 | Hazardous to the aquatic environment — Acute Hazard, Category 1 |
| Aquatic Chronic 1 | Hazardous to the aquatic environment — Chronic Hazard, Category 1 |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| Ox. Sol. 3 | Oxidising Solids, Category 3 |
| H272 | May intensify fire; oxidiser. |
| H302 | Harmful if swallowed. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| EUH401 | To avoid risks to human health and the environment, comply with the instructions for use. |

SDS EU (REACH Annex II)

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.