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

1.1 Product identifier

Trade name: BELT SC480
Product code (UVP): 06364705

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

Use: Insecticide

1.3 Details of the supplier of the safety data sheet

Supplier: Bayer (Pty) Ltd.
27 Wrench Road, P.O. Box 143
1600 Isando
South Africa

Telephone: +27 (011) 921 5911
Telefax: +27 (011) 921 5766

Responsible Department: QHSE - Nigel, South Africa
+27 (011) 365 8675 (during business hours only)

1.4 Emergency telephone no.

Emergency telephone no.: +27 (0861) 555 777 (Western Cape Poisons Helpline)
Global Incident Response Hotline (24h): +1 (760) 476 3964 (Company 3E for Bayer AG, Crop Science Division)

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification in accordance with Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, as amended.

Acute aquatic toxicity: Category 1
H400 Very toxic to aquatic life.

Chronic aquatic toxicity: Category 1
H410 Very toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling in accordance with Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, as amended.

Hazard label for supply/use required.

Hazardous components which must be listed on the label:

- Flubendiamide

Signal word: Warning

Hazard statements
H410  Very toxic to aquatic life with long lasting effects.
EUH208  Contains 1,2-benzisothiazolin-3-one, reaction mass of:
         5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one (3:1). May
         produce an allergic reaction.
EUH401  To avoid risks to human health and the environment, comply with the instructions for use.

Precautionary statements
P280   Wear protective gloves/ protective clothing/ eye protection/ face protection.
P391   Collect spillage.
P501   Dispose of contents/container in accordance with local regulation.

2.3 Other hazards
No other hazards known.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Chemical nature
Suspension concentrate (=flowable concentrate)(SC)
Flubendiamide 480 g/l

Hazardous components
Hazard statements according to Regulation (EC) No. 1272/2008

<table>
<thead>
<tr>
<th>Name</th>
<th>CAS-No. / EC-No. / REACH Reg. No.</th>
<th>Classification</th>
<th>Conc. [%]</th>
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<td>272451-65-7</td>
<td>Not classified</td>
<td>39,3</td>
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<tr>
<td>Glycerine</td>
<td>56-81-5</td>
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<td>1,2-Benzisothiazol-3(2H)-one</td>
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<td>Acute Tox. 4, H302</td>
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<td>Skin Irrit. 2, H315</td>
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<td></td>
<td>Eye Dam. 1, H318</td>
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<td>Skin Sens. 1, H317</td>
<td></td>
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<td></td>
<td></td>
<td>Aquatic Acute 1, H400</td>
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<td></td>
<td>Aquatic Chronic 2, H411</td>
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<td>and 2-methyl-2H-isothiazolin</td>
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<td>Skin Corr. 1B, H314</td>
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<td>-3-one [EC no. 220-239-6] (3:</td>
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<td>Eye Dam. 1, H318</td>
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</tr>
<tr>
<td>1)</td>
<td></td>
<td>Skin Sens. 1A, H317</td>
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</tr>
<tr>
<td></td>
<td></td>
<td>Aquatic Acute 1, H400</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Aquatic Chronic 1, H410</td>
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</table>

Further information

<table>
<thead>
<tr>
<th>Name</th>
<th>CAS-No. / EC-No. / REACH Reg. No.</th>
<th>M-Factor</th>
<th>(acute)</th>
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<tbody>
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<td>reaction mass of:</td>
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<tr>
<td>5-chloro-2-methyl-4-isothiazol</td>
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<td></td>
<td>on 3- on</td>
</tr>
</tbody>
</table>
For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Move out of dangerous area. Place and transport victim in stable position (lying sideways). Remove contaminated clothing immediately and dispose of safely.

Inhalation
Move to fresh air. Keep patient warm and at rest. Call a physician or poison control center immediately.

Skin contact
Wash off thoroughly with plenty of soap and water, if available with polyethyleneglycol 400, subsequently rinse with water. If symptoms persist, call a physician.

Eye contact
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Get medical attention if irritation develops and persists.

Ingestion
Rinse mouth. Do NOT induce vomiting. Call a physician or poison control center immediately.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms
No symptoms known or expected.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment
Treat symptomatically. In case of ingestion gastric lavage should be considered in cases of significant ingestions only within the first 2 hours. However, the application of activated charcoal and sodium sulphate is always advisable. There is no specific antidote.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable
Water spray, Carbon dioxide (CO2), Foam, Sand

5.2 Special hazards arising from the substance or mixture

In the event of fire the following may be released: Hydrogen cyanide (hydrocyanic acid), Hydrogen fluoride, Carbon monoxide (CO), Sulphur oxides, Nitrogen oxides (NOx)

5.3 Advice for firefighters

Special protective equipment for firefighters
In the event of fire and/or explosion do not breathe fumes. In the event of fire, wear self-contained breathing apparatus.

Further information
Contain the spread of the fire-fighting media. Do not allow run-off from fire fighting to enter drains or water courses.
SECTION 6: ACCIDENTAL RELEASE MEASURES
6.1 Personal precautions, protective equipment and emergency procedures
Precautions
Avoid contact with spilled product or contaminated surfaces. Use personal protective equipment.

6.2 Environmental precautions
Do not allow to get into surface water, drains and ground water.

6.3 Methods and materials for containment and cleaning up
Methods for cleaning up
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Clean contaminated floors and objects thoroughly, observing environmental regulations. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
Information regarding safe handling, see section 7.
Information regarding personal protective equipment, see section 8.
Information regarding waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE
7.1 Precautions for safe handling
Advice on safe handling
Use only in area provided with appropriate exhaust ventilation.

Hygiene measures
Avoid contact with skin, eyes and clothing. Keep working clothes separately. Wash hands before breaks and immediately after handling the product. Remove soiled clothing immediately and clean thoroughly before using again. Garments that cannot be cleaned must be destroyed (burnt).

7.2 Conditions for safe storage, including any incompatibilities
Requirements for storage areas and containers
Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Store in a place accessible by authorized persons only. Keep away from direct sunlight.

Advice on common storage
Keep away from food, drink and animal feedingstuffs.

Suitable materials
HDPE (high density polyethylene)

7.3 Specific end use(s)
Refer to the label and/or leaflet.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION
8.1 Control parameters

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Control parameters</th>
<th>Update</th>
<th>Basis</th>
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<tbody>
<tr>
<td>Flubendiamide</td>
<td>272451-65-7</td>
<td>0,5 mg/m3 (TWA)</td>
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<td>OES BCS*</td>
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<tr>
<td>Glycerine</td>
<td>56-81-5</td>
<td>10 mg/m3 (TWA)</td>
<td>1995</td>
<td>ZA REL</td>
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</tbody>
</table>

*OES BCS: Internal Bayer AG, Crop Science Division "Occupational Exposure Standard"

8.2 Exposure controls
Respiratory protection

Respiratory protection is not required under anticipated circumstances of exposure.
Respiratory protection should only be used to control residual risk of short duration activities, when all reasonably practicable steps have been taken to reduce exposure at source e.g. containment and/or local extract ventilation. Always follow respirator manufacturer's instructions regarding wearing and maintenance.

Hand protection

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.
Wash gloves when contaminated. Dispose of when contaminated inside, when perforated or when contamination on the outside cannot be removed. Wash hands frequently and always before eating, drinking, smoking or using the toilet.

Material: Nitrile rubber
Rate of permeability: > 480 min
Glove thickness: > 0.4 mm

Eye protection

Wear goggles (conforming to EN166, Field of Use = 5 or equivalent).

Skin and body protection

Wear standard coveralls and Category 3 Type 6 suit.
If there is a risk of significant exposure, consider a higher protective type suit.
Wear two layers of clothing wherever possible. Polyester/cotton or cotton overalls should be worn under chemical protection suit and should be professionally laundered frequently.
If chemical protection suit is splashed, sprayed or significantly contaminated, decontaminate as far as possible, then carefully remove and dispose of as advised by manufacturer.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Form: suspension
Colour: white to light beige
Odour: weak, characteristic
pH: 6.5 - 7.5 (100 %) (23 °C)
Flash point: >100 °C
No flash point - Determination conducted up to the boiling point.
Density: ca. 1.22 g/cm³ (20 °C)
Water solubility: miscible
Partition coefficient: n-octanol/water Flubendiamide: log Pow: 4.2 (25 °C)

9.2 Other information
Further safety related physical-chemical data are not known.
SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity
Thermal decomposition Stable under normal conditions.

10.2 Chemical stability Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions No hazardous reactions when stored and handled according to prescribed instructions.

10.4 Conditions to avoid Extremes of temperature and direct sunlight.

10.5 Incompatible materials Store only in the original container.

10.6 Hazardous decomposition products No decomposition products expected under normal conditions of use.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects
Acute oral toxicity LD50 (Rat) > 2,000 mg/kg
Acute inhalation toxicity LC50 (Rat) > 2,564 mg/l
Exposure time: 4 h
Highest attainable concentration.
Determined in the form of a respirable aerosol.
Acute dermal toxicity LD50 (Rat) > 4,000 mg/kg
Skin corrosion/irritation No skin irritation (Rabbit)
Serious eye damage/eye irritation No eye irritation (Rabbit)
Respiratory or skin sensitisation Skin: Non-sensitizing. (Guinea pig)
OECD Test Guideline 406, Buehler test

Assessment STOT Specific target organ toxicity – single exposure
Flubendiamide: Based on available data, the classification criteria are not met.

Assessment STOT Specific target organ toxicity – repeated exposure
Flubendiamide did not cause specific target organ toxicity in experimental animal studies.

Assessment mutagenicity
Flubendiamide was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

Assessment carcinogenicity
Flubendiamide was not carcinogenic in lifetime feeding studies in rats and mice.

Assessment toxicity to reproduction
Flubendiamide did not cause reproductive toxicity in a two-generation study in rats.

Assessment developmental toxicity
Flubendiamide did not cause developmental toxicity in rats and rabbits.
Aspiration hazard
Based on available data, the classification criteria are not met.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity
- Toxicity to fish: LC50 (Oncorhynchus mykiss (rainbow trout)) > 250 mg/l
  Exposure time: 96 h
- Toxicity to aquatic invertebrates: EC50 (Daphnia magna (Water flea)) 0.0065 mg/l
  Exposure time: 48 h
- Toxicity to aquatic plants: IC50 (Raphidocelis subcapitata (freshwater green alga)) > 0.07 mg/l
  Exposure time: 72 h
  The value mentioned relates to the active ingredient.
  No acute toxicity was observed at its limit of water solubility.

12.2 Persistence and degradability
- Biodegradability: Flubendiamide: Not rapidly biodegradable
- Koc: Flubendiamide: Koc: 2197

12.3 Bioaccumulative potential
- Bioaccumulation: Flubendiamide: Bioconcentration factor (BCF) 73
  Does not bioaccumulate.

12.4 Mobility in soil
- Mobility in soil: Flubendiamide: Slightly mobile in soils

12.5 Results of PBT and vPvB assessment
- PBT and vPvB assessment: Flubendiamide: This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB).

12.6 Other adverse effects
- Additional ecological information: No other effects to be mentioned.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods
- Product: In accordance with current regulations and, if necessary, after consultation with the site operator and/or with the responsible authority, the product may be taken to a waste disposal site or incineration plant.
- Contaminated packaging: Not completely emptied packagings should be disposed of as hazardous waste.

SECTION 14: TRANSPORT INFORMATION

SANS 10231
14.1 UN number: 3082
14.2 Proper shipping name  ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (FLUBENDIAMIDE)

14.3 Transport hazard class(es)  9
14.4 Packaging Group  III
14.5 Environm. Hazardous Mark  YES

IMDG
14.1 UN number  3082
14.2 Proper shipping name  ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (FLUBENDIAMIDE)

14.3 Transport hazard class(es)  9
14.4 Packaging Group  III
14.5 Marine pollutant  YES

IATA
14.1 UN number  3082
14.2 Proper shipping name  ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (FLUBENDIAMIDE)

14.3 Transport hazard class(es)  9
14.4 Packaging Group  III
14.5 Environm. Hazardous Mark  YES

14.6 Special precautions for user
See sections 6 to 8 of this Safety Data Sheet.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code
No transport in bulk according to the IBC Code.

SECTION 15: REGULATORY INFORMATION
15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
Further information
WHO-classification: III (Slightly hazardous)

SECTION 16: OTHER INFORMATION
Text of the hazard statements mentioned in Section 3
H301  Toxic if swallowed.
H302  Harmful if swallowed.
H310  Fatal in contact with skin.
H314  Causes severe skin burns and eye damage.
H315  Causes skin irritation.
H317  May cause an allergic skin reaction.
H318  Causes serious eye damage.
H330  Fatal if inhaled.
H400  Very toxic to aquatic life.
H410  Very toxic to aquatic life with long lasting effects.
H411  Toxic to aquatic life with long lasting effects.

Abbreviations and acronyms
SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

BELT SC480

Version 2 / ZA
Print Date: 14.03.2019

The information contained within this Safety Data Sheet is in accordance with the guidelines established by Regulation (EU) 1907/2006 and Regulation (EU) 2015/830 amending Regulation (EU) No 1907/2006 and any subsequent amendments. This data sheet complements the user's instructions, but does not replace them. The information it contains is based on the knowledge available about the product concerned at the time it was compiled. Users are further reminded of the possible risks of using a product for purposes other than those for which it was intended. The required information complies with current EEC legislation. Addressees are requested to observe any additional national requirements.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.