

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Product form : Mixture  
Product name : AGREE 50 WG  
Product code : CUSA 104 C1076  
Type of formulation : Water dispersible (WG)  
Active Ingredient : *Bacillus thuringiensis*

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

#### 2.1. Relevant identified uses

Main use category : Plant protection product for professional use. Agriculture.  
Use of the substance/mixture : Insecticide.

#### 1.2.2. Uses advised against

No additional information available.

### 1.3. Details of the supplier of the safety data sheet

#### Supplier:

Certis U.S.A., LLC  
9145 Guilford Road, Suite 175  
Columbia, Maryland 21046  
U.S.A

#### Distributor:

CERTIS UK  
Suite 5, 3 Riverside  
Granta Park  
Great Abington  
Cambridgeshire CB21 6AD  
United Kingdom  
Tel: +44 (0)845 373 0305  
Fax: +44 (0)1223 891210  
Email: [certis@certiseurope.co.uk](mailto:certis@certiseurope.co.uk)  
Website: [www.certiseurope.co.uk](http://www.certiseurope.co.uk)

### 1.4. Emergency telephone number

Emergency number : Certis Carechem24 multilingual 24 hours emergency number: +44 (0) 870 190 6777.  
For advice on medical emergencies, fires, spillages or chemical hazards only –phone: 0870 190 6777.  
For further advice for medical professionals - The National Poisons Information Service:  
Tel: 0870 600 6266 (UK only) or Dublin Tel: 0035 3 137 99 64/379966.  
For further advice for veterinary surgeons: 020 7635 9195..

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

Skin Sens. 1 H317

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

### 2.2. Label elements

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

Hazard pictograms (CLP)



GHS07

Signal word (CLP)

: Warning

Hazard statements (CLP)

: H317 - May cause an allergic skin reaction.

Precautionary statements (CLP)

: P101 - If medical advice is needed, have product container or label at hand.  
 P102 - Keep out of reach of children.  
 P261 - Avoid breathing dust.  
 P272 - Contaminated work clothing should not be allowed out of the workplace.  
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
 P302+P352 - IF ON SKIN: Wash with plenty of water.  
 P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.  
 P363 - Wash contaminated clothing before reuse.  
 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

Micro-organisms may have the potential to provoke sensitising reactions.

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Not applicable

### 3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
<i>B.thuringiensis</i> subsp. aizawai strain GC91 (Bta)	(CAS No) 68038-71-1	70 - 90	Not classified.
Sodium polynaphthalenesulfonate	(CAS No) 9084-06-4	10 - 20	Skin Irrit. 2, H315 Eye Irrit. 2, H319

Full text of H-statements: see section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

- First-aid measures after inhalation : IF INHALED: if breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing  
If symptoms persist call a doctor.
- First-aid measures after skin contact : IF ON SKIN: Wash with plenty of soap and water  
Remove contaminated clothing and shoes  
If skin irritation or rash occurs: Get medical advice/attention.
- 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  
Consult an eye specialist.
- First-aid measures after ingestion : IF SWALLOWED: immediately call a POISON CENTER or doctor/physician  
Never give anything by mouth to an unconscious person.

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

- Symptoms/injuries after skin contact : May cause an allergic skin reaction.

### 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 chemical powder  
Alcohol resistant foam  
Carbon dioxide (CO<sub>2</sub>).

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

No additional information available

### 5.3. Advice for firefighters

- Firefighting instructions : Exercise caution when fighting any chemical fire  
Fight fire from safe distance and protected location  
Do not breathe fumes  
Cool closed containers exposed to fire with water spray  
If possible, take the containers out of dangerous zone.  
Contain fire-fighting water with dikes or absorbents to prevent migration and entry into sewers or streams.
- Protection during firefighting : Wear suitable protective clothing, gloves, eye/face protection and respiratory protection  
Wear a self-contained breathing apparatus.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

- Protective equipment : Wear suitable protective clothing, gloves and eye or face protection.
- Emergency procedures : Evacuate area
- Ensure adequate ventilation
- Avoid direct contact with the substance
- Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

### 6.2. Environmental precautions

Prevent entry to sewers and public waters.

### 6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Clean up any spills as soon as possible
- Collect spilled material with shovels, buckets and place in closed containers and label properly
- Remove according to national or local legislation
- In the event of major spillage: Contact an expert.

### 6.4. Reference to other sections

No additional information available

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Precautions for safe handling : Avoid breathing dust, mist or spray.
- Wear suitable protective clothing, gloves and eye/face protection.
- Wear respiratory protection.
- Avoid contact with open wounds.
- Avoid contact with skin.
- Hygiene measures : Always wash your hands immediately after handling this product, and once again before leaving the workplace.
- Contaminated work clothing should not be allowed out of the workplace.
- Do not drink, eat or smoke in the workplace.

### 7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Provide adequate ventilation.
- Storage conditions : Store in a dry place.
- Keep in original containers, tightly closed.
- Keep locked up and out of the reach of children.
- Keep away from food, drink and animal feedingstuffs.

### 7.3. Specific end use(s)

Bioinsecticide. For agricultural use. Refer to the label.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

### 8.2. Exposure controls

Materials for protective clothing	: Impervious protective clothing.
Hand protection	: Nitrile-rubber protective gloves.
Eye protection	: Safety glasses.
Skin and body protection	: Protective clothing with long sleeves, gloves and boots.
Respiratory protection	: Disposable filtering facepiece respirator to at least EN149 FFP3 or equivalent.
Hygiene measures	: Remove and wash contaminated clothing before re-use. Do not eat, drink or smoke while handling the product. Clean gloves with soap and water before removing. Wash hands and face with soap and water before eating, drinking smoking and immediately after handling product. Clean equipment, premises and work clothes regularly. Work clothing should remain on the work area and stored separately from street clothes.
Environmental exposure controls	: Discharge into the environment must be avoided. Do not contaminate surface and groundwater.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Granules.
Colour	: Brown.
Odour	: Fishmeal odour
Odour threshold	: No data available
pH	: 5,5 – 6,5
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: Not relevant
Flash point	: Not relevant
Auto-ignition temperature	: The product is not flammable The temperature of auto-flammability was found to be > 400 °C
Decomposition temperature	: No data available
Flammability (solid, gas)	: Non flammable
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: Negligible.
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: Not applicable.
Viscosity, dynamic	: Not applicable.
Explosive properties	: It is not explosive
Oxidising properties	: No oxidising properties.
Explosive limits	: No data available

**9.2. Other information**

No additional information available

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

The product is stable at normal handling and storage conditions.

**10.2. Chemical stability**

The product is stable at normal handling and storage conditions.

**10.3. Possibility of hazardous reactions**

Is not explosive and does not exhibit oxidant properties.

**10.4. Conditions to avoid**

Avoid exposure to moisture. Exposure to excessive heat or open flame.

**10.5. Incompatible materials**

No additional information available

**10.6. Hazardous decomposition products**

No know hazardous decomposition products.

**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

Acute toxicity : Not classified

AGREE 50 WG	
LD50 oral rat	> 5000 mg/kg

Skin corrosion/irritation : No signs of dermal irritation, no oedema or erythema, were observed even after 24h dermal exposure (rabbit).

Serious eye damage/irritation : Mildly and reversibly irritating to the rabbit eye (*classification criteria are not met*).

Respiratory or skin sensitisation : Serious erythema with eschar was observed (Guinea pig, Magnusson & Kligman modified test).

Germ cell mutagenicity : The Technical Grade Active Ingredient is not mutagenic according to *Salmonella* reverse mutation assay and according to the mutagenicity test run on Chinese hamster ovary cells.

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

**SECTION 12: Ecological information**

**12.1. Toxicity**

<i>Bacillus thuringiensis</i> strain SA-11	
LC50 Fishes ( <i>Oncorhynchus mykiss</i> )	> 41,5 mg/l (30 days semi-static)
EC50 ( <i>Daphnia magna</i> )	> 41,5 mg/l = 1,0 x 10 <sup>6</sup> CFU/mL (48h, static)
ErC50 Algae ( <i>Selenastrum capricornutum</i> )	> 42 mg/l (72h)

AGREE 50 WG	
LC50 ( <i>Eisenia fetida</i> )	> 1000 mg/kg
LD50 oral ( <i>Apis mellifera</i> )	428,66 µg/bee
LD50 contact ( <i>Apis mellifera</i> )	320 µg/bee

#### 12.2. Persistence and degradability

AGREE 50 WG	
Persistence and degradability	<i>Bacillus thuringiensis</i> subspecies <i>kurstaki</i> (Btk) shows a rapid loss of activity in response to UV light.

#### 12.3. Bioaccumulative potential

AGREE 50 WG	
Bioaccumulative potential	Btk is not pathogenic and does not reproduce in living organisms other than target Lepidopteran larvae.

#### 12.4. Mobility in soil

AGREE 50 WG	
Ecology - soil	Low based on scientific data for Btk

#### 12.5. Results of PBT and vPvB assessment

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).

This mixture contains no substance considered to be very persistent and very bioaccumulative (vPvB).

#### 12.6. Other adverse effects

No additional information available

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Waste treatment methods : Dispose in a safe manner in accordance with local/national regulations.

### SECTION 14: Transport information

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

#### 14.1. UN number

Not regulated for transport

#### 14.2. UN proper shipping name

Not applicable

#### 14.3. Transport hazard class(es)

Not applicable

#### 14.4. Packing group

Not applicable

#### 14.5. Environmental hazards

Other information : No supplementary information available.

#### 14.6. Special precautions for user

##### 14.6.1. Overland transport

No additional information available

##### 14.6.2. Transport by sea

No additional information available

##### 14.6.3. Air transport

No additional information available

**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**

**15.1.1. EU-Regulations**

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

**15.1.2. National regulations**

Water hazard class (WGK) : nwg - non-hazardous to water

**15.2. Chemical safety assessment**

No additional information available

**SECTION 16: Other information**

Full text of H- and EUH-statements:

Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Sensitisation — Skin, Category 1
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
EUH401	To avoid risks to human health and the environment, comply with the instructions for use