



# DCM MICRO-MIX

## Safety Data Sheet

according to Regulation (EU) 2015/830

Date of issue: 16/08/2017

Version: 17.01

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

#### 1.1. Product identifier

Product form : Article  
Trade name : DCM MICRO-MIX  
Product code : 1001541  
Type of product : Fertilizer

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

##### 1.2.1. Relevant identified uses

Use of the substance/mixture : Fertilizer

##### 1.2.2. Uses advised against

No additional information available

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

DCM - De Ceuster Meststoffen nv/sa  
Bannerlaan 79  
2280 Grobbendonk - Belgium  
T +32 (0)14 25 73 57 - F +32 (0)14 21 76 02  
[dcm@dcm-info.com](mailto:dcm@dcm-info.com) - [www.dcm-info.com](http://www.dcm-info.com)

#### 1.4. Emergency telephone number

| Country        | Organisation/Company                                                                | Address                               | Emergency number | Comment                                                                         |
|----------------|-------------------------------------------------------------------------------------|---------------------------------------|------------------|---------------------------------------------------------------------------------|
| Belgium        | Centre Anti-Poisons/Antigifcentrum<br>c/o Hôpital Central de la Base - Reine Astrid | Rue Bruyn 1<br>1120 Bruxelles/Brussel | +32 70 245 245   | telephone number +32 2 264 96 30 (normal fee) if emergency number not available |
| United Kingdom | National Poisons Information Service (Birmingham Centre)<br>City Hospital           | Dudley Road<br>B18 7QH Birmingham     | 0344 892 0111    |                                                                                 |

### 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 — H412

Chronic Hazard, Category 3

Full text of H statements : see section 16

##### Adverse physicochemical, human health and environmental effects

Harmful to aquatic life with long lasting effects.

#### 2.2. Label elements

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

Signal word (CLP) : -  
Hazard statements (CLP) : H412 - Harmful to aquatic life with long lasting effects  
Precautionary statements (CLP) : P273 - Avoid release to the environment

#### 2.3. Other hazards

No additional information available

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

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| Name                                                                                                                         | Product identifier                                                                                      | %   | Classification according to Regulation (EC) No. 1272/2008 [CLP]                                   |
|------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|-----|---------------------------------------------------------------------------------------------------|
| disodium tetraborate decahydrate, borax decahydrate<br>substance listed as REACH Candidate (Disodium tetraborate, anhydrous) | (CAS-No.) 1303-96-4<br>(EC-No.) 215-540-4<br>(EC Index-No.) 005-011-01-1<br>(REACH-no) 01-2119490790-32 | < 3 | Repr. 1B, H360FD                                                                                  |
| iron (II) sulfate (1:1) heptahydrate, sulfuric acid, iron(II) salt (1:1), heptahydrate, ferrous sulfate heptahydrate         | (CAS-No.) 7782-63-0<br>(EC-No.) 231-753-5<br>(EC Index-No.) 026-003-01-4                                | < 2 | Acute Tox. 4 (Oral), H302<br>Eye Irrit. 2, H319<br>Skin Irrit. 2, H315                            |
| zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate)                                                                     | (CAS-No.) 7446-19-7<br>(EC-No.) 231-793-3<br>(EC Index-No.) 030-006-00-9                                | < 1 | Acute Tox. 4 (Oral), H302<br>Eye Dam. 1, H318<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410 |

### Specific concentration limits:

| Name                                                                                                                 | Product identifier                                                                                      | Specific concentration limits |
|----------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|-------------------------------|
| disodium tetraborate decahydrate, borax decahydrate                                                                  | (CAS-No.) 1303-96-4<br>(EC-No.) 215-540-4<br>(EC Index-No.) 005-011-01-1<br>(REACH-no) 01-2119490790-32 | (C >= 8,5) Repr. 1B, H360FD   |
| iron (II) sulfate (1:1) heptahydrate, sulfuric acid, iron(II) salt (1:1), heptahydrate, ferrous sulfate heptahydrate | (CAS-No.) 7782-63-0<br>(EC-No.) 231-753-5<br>(EC Index-No.) 026-003-01-4                                | (C >= 25) Skin Irrit. 2, H315 |

Full text of H-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

- First-aid measures general : If medical advice is needed, have product container or label at hand.
- 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 : 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 : Call a poison center or a doctor if you feel unwell.

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

No additional information available

### 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.

### 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

- Firefighting instructions : Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
- 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. Avoid contact with skin and eyes.

#### 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.

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

For containment : Collect spillage.

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|                         |                                                                                                                                                                                         |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Methods for cleaning up | : This material and its container must be disposed of in a safe way, and as per local legislation. Mechanically recover the product. On land, sweep or shovel into suitable containers. |
| 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.

## 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. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. |

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

|                    |                                                                                                                                                                                                                                |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Storage conditions | : Store in a dry place. Store in a well-ventilated place. Keep cool. Store in original container. Keep container tightly closed. Keep away from food, drink and animal feeding stuffs. Keep out of reach of children and pets. |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### 7.3. Specific end use(s)

Do not eat or drink the product. Do not use as animal feed.

## 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.

#### 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

#### Environmental exposure controls:

Avoid release to the environment.

#### Other information:

Do not eat, drink or smoke when using this product. Do not eat or drink the product. Do not use as animal feed.

## SECTION 9: Physical and chemical properties

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

|                                            |                                                                                                                             |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Physical state                             | : Solid                                                                                                                     |
| Appearance                                 | : MINIGRAN = microgranules with dimension between 800 and 2500 microns of which at least 80% between 1000 and 2000 microns. |
| Colour                                     | : brown.                                                                                                                    |
| Odour                                      | : characteristic.                                                                                                           |
| Odour threshold                            | : No data available                                                                                                         |
| pH                                         | : No data available                                                                                                         |
| Relative evaporation rate (butylacetate=1) | : No data available                                                                                                         |
| Melting point                              | : No data available                                                                                                         |
| Freezing point                             | : Not applicable                                                                                                            |
| Boiling point                              | : No data available                                                                                                         |
| Flash point                                | : Not applicable                                                                                                            |
| Auto-ignition temperature                  | : Not applicable                                                                                                            |
| Decomposition temperature                  | : No data available                                                                                                         |

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|                                  |                     |
|----------------------------------|---------------------|
| Flammability (solid, gas)        | : Non flammable     |
| Vapour pressure                  | : No data available |
| Relative vapour density at 20 °C | : No data available |
| Relative density                 | : Not applicable    |
| Density                          | : 560 - 700 g/l     |
| Solubility                       | : No data available |
| Log Pow                          | : No data available |
| Viscosity, kinematic             | : Not applicable    |
| Viscosity, dynamic               | : No data available |
| Explosive properties             | : No data available |
| Oxidising properties             | : No data available |
| Explosive limits                 | : Not applicable    |

### 9.2. Other information

No additional information available

## 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 |
| Skin corrosion/irritation         | : Not classified |
| Serious eye damage/irritation     | : Not classified |
| Respiratory or skin sensitisation | : Not classified |
| 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 |

## SECTION 12: Ecological information

### 12.1. Toxicity

|                          |                                                      |
|--------------------------|------------------------------------------------------|
| Ecology - general        | : Harmful to aquatic life with long lasting effects. |
| Acute aquatic toxicity   | : Not classified                                     |
| Chronic aquatic toxicity | : Harmful to aquatic life with long lasting effects. |

### 12.2. Persistence and degradability

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|                               |                                                                                               |
|-------------------------------|-----------------------------------------------------------------------------------------------|
| Persistence and degradability | Fully degrades into CO <sub>2</sub> , water and minerals that are considered plant nutrients. |
|-------------------------------|-----------------------------------------------------------------------------------------------|

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### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

| Component                                                       |                                                                                                                                                                                 |
|-----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| disodium tetraborate decahydrate, borax decahydrate (1303-96-4) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII<br>This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |

### 12.6. Other adverse effects

Additional information : Avoid release to the environment. Prevent entry into public waters, rivers and lakes to avoid oxygen deficiency and eutrofication.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods : Product is used as a fertiliser. Before depositing check the possibility for agricultural use. Dispose of contents/container in accordance with licensed collector's sorting instructions.

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Avoid release to the environment.

Additional information : Do not use the packaging for other purposes.

## SECTION 14: Transport information

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

### 14.1. UN number

UN-No. (ADR) : Not applicable  
UN-No. (IMDG) : Not applicable  
UN-No. (IATA) : Not applicable  
UN-No. (ADN) : Not applicable  
UN-No. (RID) : Not applicable

### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : Not applicable  
Proper Shipping Name (IMDG) : Not applicable  
Proper Shipping Name (IATA) : Not applicable  
Proper Shipping Name (ADN) : Not applicable  
Proper Shipping Name (RID) : Not applicable

### 14.3. Transport hazard class(es)

**ADR**  
Transport hazard class(es) (ADR) : Not applicable

**IMDG**  
Transport hazard class(es) (IMDG) : Not applicable

**IATA**  
Transport hazard class(es) (IATA) : Not applicable

**ADN**  
Transport hazard class(es) (ADN) : Not applicable

**RID**  
Transport hazard class(es) (RID) : Not applicable

### 14.4. Packing group

Packing group (ADR) : Not applicable  
Packing group (IMDG) : Not applicable  
Packing group (IATA) : Not applicable  
Packing group (ADN) : Not applicable

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Packing group (RID) : Not applicable

### 14.5. Environmental hazards

Dangerous for the environment : No  
Marine pollutant : No  
Other information : No supplementary information available

### 14.6. Special precautions for user

#### - Overland transport

Not applicable

#### - Transport by sea

Not applicable

#### - Air transport

Not applicable

#### - Inland waterway transport

Not applicable

#### - Rail transport

Not applicable

### 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 REACH Candidate List substance(s): Disodium tetraborate, anhydrous (EC 215-540-4, CAS 1303-96-4)

#### 15.1.2. National regulations

##### Germany

VwVwS Annex reference : Water hazard class (WGK) nwg, Non-hazardous to water (Classification according to VwVwS, Annex 4)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

##### Netherlands

SZW-lijst van kankerverwekkende stoffen : None of the components are listed

SZW-lijst van mutagene stoffen : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : disodium tetraborate decahydrate, borax decahydrate is listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : disodium tetraborate decahydrate, borax decahydrate is listed

##### Denmark

Recommendations Danish Regulation : Pregnant/breastfeeding women working with the product must not be in direct contact with the product  
The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

Other information : None.

Full text of H- and EUH-statements:

|                     |                                                                 |
|---------------------|-----------------------------------------------------------------|
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4                               |
| Aquatic Acute 1     | Hazardous to the aquatic environment — Acute Hazard, Category 1 |

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|                   |                                                                   |
|-------------------|-------------------------------------------------------------------|
| Aquatic Chronic 1 | Hazardous to the aquatic environment — Chronic Hazard, Category 1 |
| Eye Dam. 1        | Serious eye damage/eye irritation, Category 1                     |
| Eye Irrit. 2      | Serious eye damage/eye irritation, Category 2                     |
| Repr. 1B          | Reproductive toxicity, Category 1B                                |
| Skin Irrit. 2     | Skin corrosion/irritation, Category 2                             |
| H302              | Harmful if swallowed                                              |
| H315              | Causes skin irritation                                            |
| H318              | Causes serious eye damage                                         |
| H319              | Causes serious eye irritation                                     |
| H360FD            | May damage fertility. May damage the unborn child                 |
| H400              | Very toxic to aquatic life                                        |
| H410              | Very toxic to aquatic life with long lasting effects              |
| H412              | Harmful to aquatic life with long lasting effects                 |

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*