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

1.1. Product identifier
Product form: Mixture
Trade name: Teppeki
Product code: IKI-220 500WG; IKI-220 50% WG; IBE-3894
Type of product: WG (Water dispersible granule)

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: Insecticide

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]
Serious eye damage/eye irritation, Category 2 H319
Full text of H statements: see section 16

Adverse physicochemical, human health and environmental effects
To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]
Hazard pictograms (CLP): GHS07
Signal word (CLP): Warning
Hazard statements (CLP): H319 - Causes serious eye irritation.
Precautionary statements (CLP): P264 - Wash hands, forearms and face thoroughly after handling.
P280 - Wear protective clothing, eye protection, face protection, protective gloves.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 - IF eye irritation persists: Get medical advice/attention.
EUH-statements: EUH208 - Contains Disodium maleate(371-47-1). May produce an allergic reaction.
EUH401 - To avoid risks to human health and the environment, comply with the instructions for use.

2.3. Other hazards
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substances
Not applicable
3.2. Mixtures

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>Conc. (% w/w)</th>
<th>Classification according to Regulation (EC) No. 1272/2008 [CLP]</th>
</tr>
</thead>
<tbody>
<tr>
<td>flonicamid (ISO); N-(cyanomethyl)-4-(trifluoromethyl)pyridine-3-carboxamide</td>
<td>(CAS-No.) 158062-67-0 (EC Index-No.) 616-216-00-9</td>
<td>50 - 80</td>
<td>Acute Tox. 4 (Oral), H302</td>
</tr>
<tr>
<td>Methyl/naphthalenesulfonic acid/formaldehyde, copolymer, sodium salt</td>
<td>(CAS-No.) 81065-51-2 (EC-No.) 500-241-6</td>
<td>1 - 5</td>
<td>Eye Irrit. 2, H319, Aquatic Chronic 3, H412</td>
</tr>
<tr>
<td>Isotridecanol, ethoxylated</td>
<td>(CAS-No.) 69011-36-5 (EC-No.) 500-241-6</td>
<td>1 - 5</td>
<td>Aquatic Chronic 3, H412</td>
</tr>
<tr>
<td>2,5-Furandione, polymer with 2,4,4-trimethylpentene, sodium salt</td>
<td>(CAS-No.) 37199-81-8 (EC-No.) 500-241-6</td>
<td>1 - 5</td>
<td>Eye Irrit. 2, H319</td>
</tr>
<tr>
<td>Docusate sodium</td>
<td>(CAS-No.) 577-11-7 (EC-No.) 209-406-4 (REACH-no) 01-2119491296-29</td>
<td>1 - 5</td>
<td>Skin Irrit. 2, H315, Eye Dam. 1, H318</td>
</tr>
<tr>
<td>Disodium maleate</td>
<td>(CAS-No.) 371-47-1 (EC-No.) 206-738-1</td>
<td>0.1 - 0.5</td>
<td>Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT SE 3, H335</td>
</tr>
<tr>
<td>Toluene</td>
<td>(CAS-No.) 108-88-3 (EC-No.) 203-625-9 (EC Index-No.) 601-021-00-3</td>
<td>&lt; 0.2</td>
<td>Flam. Liq. 2, H225 Repr. 2, H361d Asp. Tox. 1, H304 STOT RE 2, H373 Skin Irrit. 2, H315 STOT SE 3, H336</td>
</tr>
</tbody>
</table>

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures
First-aid measures general:
Consult a doctor/medical service if you feel unwell.
First-aid measures after inhalation:
Move the affected person to the fresh air. Respiratory problems: consult a doctor/medical service.
First-aid measures after skin contact:
Remove contaminated clothing. Wash skin with mild soap and water. If case of redness or irritation, call a doctor.
First-aid measures after eye contact:
Immediately rinse with plenty of water. Do not apply (chemical) neutralizing agents. Consult an ophthalmologist if irritation persists.
First-aid measures after ingestion:
Rinse mouth out with water. Do not give anything to drink. Do not induce vomiting. Get immediate medical advice/attention.

4.2. Most important symptoms and effects, both acute and delayed
Symptoms/effects:
Dust of the product, if present, may cause respiratory irritation after an excessive inhalation exposure.
Symptoms/effects after eye contact:
Eye irritation.

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:
Unsuitable extinguishing media:
None.

5.2. Special hazards arising from the substance or mixture
Hazardous decomposition products in case of fire:

5.3. Advice for firefighters
Firefighting instructions:
Cool tanks/drum with water spray/remove them into safety. Dilute toxic gases with water spray.
Protection during firefighting:

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
General measures:
Avoid dust production.
6.1.1. For non-emergency personnel
Protective equipment: Concerning personal protective equipment to use, see section 8.
Emergency procedures: Avoid contact with eyes. Do not breathe dust.

6.1.2. For emergency responders

6.2. Environmental precautions
Prevent soil and water pollution. Do not flush down sewers. Stop leak if safe to do so. Contain the spilled material by bunding. Knock down/dilute dust cloud with water spray.

6.3. Methods and material for containment and cleaning up
For containment: Knock down/dilute dust cloud with water spray. Take up liquid spill into inert absorbent material. Sweep or shovel spills into appropriate container for disposal. Store in tightly closed, leak-proof containers.
Methods for cleaning up: Clean contaminated surfaces with an excess of water.
Other information: Dispose of contaminated materials in accordance with current regulations. Wash clothing and equipment after handling.

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: Avoid dust formation. Do not discharge the waste into the drain.
Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. If on skin, take off contaminated clothing. Always wash hands after handling the product. Wash clothing and equipment after handling.

7.2. Conditions for safe storage, including any incompatibilities
Storage conditions: Keep the container hermetically sealed. Store at ambient temperature.
Heat and ignition sources: Protect from heat and direct sunlight. Keep away from ignition sources.
Special rules on packaging: Keep only in original container.

7.3. Specific end use(s)
No additional information available

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. Breakthrough time: refer to the recommendations of the supplier. The protective gloves to be used must comply with the specifications of the regulation 2016/425 and the resultant standard EN 374

Eye protection:
Safety glasses. If dust are formed: Safety glasses with side shields

Skin and body protection:
Wear suitable protective clothing

Respiratory protection:
Dust production: dust mask with filter type P1

<table>
<thead>
<tr>
<th>Device</th>
<th>Filter type</th>
<th>Condition</th>
<th>Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type P1</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

SECTION 9: Physical and chemical properties
9.1. Information on basic physical and chemical properties
Physical state: Solid
Appearance: Granulate.
Colour: brown.
Odour: Faint odour of ammonia.
Odour threshold: No data available
pH: No data available
pH solution: 8.3 (1%; 22 °C)
Relative evaporation rate (butylacetate=1): No data available
Melting point: No data available
Freezing point: No data available
Boiling point: Not applicable
Flash point: Not applicable
Auto-ignition temperature: Not self-igniting
Decomposition temperature: No data available
Flammability (solid, gas): Not flammable
Vapour pressure: No data available
Relative vapour density at 20 °C: No data available
Relative density: Not applicable
Density: 0.543 - 0.582 g/ml (Before - After compaction)
Solubility: No data available.
Log Pow: No data available
Viscosity, kinematic: No data available
Viscosity, dynamic: Not applicable
Explosive properties: Not explosive.
Oxidising properties: Non oxidizing.
Explosive limits: No data available

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
The product is stable at normal handling and storage conditions.

10.3. Possibility of hazardous reactions
No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid
Avoid dust production.

10.5. Incompatible materials
None to our knowledge.

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

<table>
<thead>
<tr>
<th>Teppeki</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>&gt; 2000 mg/kg bodyweight (OECD 423 method)</td>
</tr>
<tr>
<td>LD50 dermal rat</td>
<td>&gt; 2000 mg/kg bodyweight (OECD 402 method)</td>
</tr>
<tr>
<td>LC50 inhalation rat (mg/l)</td>
<td>&gt; 5.36 mg/l</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation: Not classified (Based on available data, the classification criteria are not met)
Additional information: Not irritating to rabbits on cutaneous application (OECD 404 method)

Serious eye damage/irritation: Causes serious eye irritation.
Additional information: Irritating to rabbits on ocular application (OECD 405 method)

Respiratory or skin sensitisation: Not classified (Based on available data, the classification criteria are not met)
Additional information: Does not cause cutaneous sensitisation for guinea-pigs (OECD 406 method)

Germ cell mutagenicity: Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity: Not classified (Based on available data, the classification criteria are not met)
### Teppeki Safety Data Sheet

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

**flonicamid (ISO); N-(cyanomethyl)-4-(trifluoromethyl)pyridine-3-carboxamide (158062-67-0)**

<table>
<thead>
<tr>
<th>Reproductive toxicity</th>
<th>NOAEL (chronic, oral, animal/male, 2 years)</th>
<th>7.32 mg/kg bodyweight</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>NOAEL (animal/male, F0/P)</td>
<td>18 mg/kg bodyweight (OECD 416 method)</td>
</tr>
<tr>
<td></td>
<td>NOAEL (animal/male, F1)</td>
<td>30 mg/kg bodyweight (OECD 416 method)</td>
</tr>
<tr>
<td></td>
<td>NOAEL, oral, rat, male</td>
<td>109 mg/kg bw/day (18 months, OECD 414)</td>
</tr>
<tr>
<td></td>
<td>NOAEL, oral, rat, female</td>
<td>100 mg/kg bw/day (OECD 414)</td>
</tr>
<tr>
<td></td>
<td>NOAEL, oral, rabbit, female</td>
<td>7.5 mg/kg bw/day (OECD 414)</td>
</tr>
<tr>
<td></td>
<td>NOAEL, Developmental toxicity, oral, rat, female</td>
<td>100 mg/kg bw/day (OECD 414)</td>
</tr>
<tr>
<td></td>
<td>NOAEL, Developmental toxicity, oral, rabbit, female</td>
<td>&gt; 25 mg/kg bw/day (OECD 414)</td>
</tr>
<tr>
<td></td>
<td>NOAEL (subchronic, oral, animal/male, 90 days)</td>
<td>60 mg/kg bodyweight (OECD 408 method)</td>
</tr>
<tr>
<td></td>
<td>NOAEL, mouse, male, female</td>
<td>15.3 mg/kg bw/day</td>
</tr>
<tr>
<td></td>
<td>NOAEL, Dog, male, female</td>
<td>8 mg/kg bw/day</td>
</tr>
</tbody>
</table>

Aspiration hazard: Not classified (Technical impossibility to obtain the data)

**SECTION 12: Ecological information**

**12.1. Toxicity**

Ecology - general: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Hazardous to the aquatic environment, short-term (acute): Not classified (Based on available data, the classification criteria are not met)

Hazardous to the aquatic environment, long-term (chronic): Not classified (Based on available data, the classification criteria are not met)

**Teppiki**

| LC50 fish 1    | > 100 mg/l (96 H; Oncorhynchus mykiss) |
| EC50 Daphnia 1 | > 100 mg/l (48 H; Daphnia magna)       |
| ErC50 (algae)  | > 100 mg/l (72 H; Pseudokirchneriella subcapitata) |

**flonicamid (ISO); N-(cyanomethyl)-4-(trifluoromethyl)pyridine-3-carboxamide (158062-67-0)**

| NOEC chronic fish     | 10 mg/l (33 d; Pimephales promelas; OECD 210) |
| NOEC chronic crustacea| 3.1 mg/l (21 d; Daphnia magna; OECD 211) |
| NOEC chronic algae    | 46 mg/l (72 H; Pseudokirchneriella subcapitata; OECD 201) |

**12.2. Persistence and degradability**

**flonicamid (ISO); N-(cyanomethyl)-4-(trifluoromethyl)pyridine-3-carboxamide (158062-67-0)**

Persistence and degradability: Not readily biodegradable.

**Methylnaphtalenesulfonic acid/formaldehyde, copolymer, sodium salt (81065-51-2)**

Persistence and degradability: Not rapidly degradable.

**Isotridecanol, ethoxylated (69011-36-5)**

Persistence and degradability: Readily biodegradable.

Biodegradation: > 60 % CO2 (28d)
### Teppeki Safety Data Sheet

**Docusate sodium (577-11-7)**

**Persistence and degradability**

Readily biodegradable.

**12.3. Bioaccumulative potential**

**flonicamid (ISO); N-(cyanomethyl)-4-(trifluoromethyl)pyridine-3-carboxamide (158062-67-0)**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Log Pow</td>
<td>-0.24 (20 °C)</td>
</tr>
<tr>
<td>Bioaccumulative potential</td>
<td>Not potentially bioaccumulable.</td>
</tr>
</tbody>
</table>

**Isotridecanol, ethoxylated (69011-36-5)**

Bioaccumulative potential

Negligible.

**12.4. Mobility in soil**

**flonicamid (ISO); N-(cyanomethyl)-4-(trifluoromethyl)pyridine-3-carboxamide (158062-67-0)**

Log Koc

0.77

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

**Teppeki**

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

**12.6. Other adverse effects**

No additional information available

---

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

Waste treatment methods

Do not dispose of with domestic waste.

Product/Packaging disposal recommendations

Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber. Dispose of in accordance with relevant local regulations.

Ecology - waste materials

Do not discharge into drains or rivers.

### SECTION 14: Transport information

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

<table>
<thead>
<tr>
<th>ADR</th>
<th>IMDG</th>
<th>IATA</th>
<th>ADN</th>
<th>RID</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.1. UN number</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td>14.2. UN proper shipping name</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td>14.3. Transport hazard class(es)</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td>14.4. Packing group</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td>14.5. Environmental hazards</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

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
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

15.2. Chemical safety assessment
No chemical safety assessment has been carried out

SECTION 16: Other information

Table:

<table>
<thead>
<tr>
<th>Section</th>
<th>Changed item</th>
<th>Change</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.1</td>
<td>Additional information</td>
<td>Added</td>
<td></td>
</tr>
<tr>
<td>14.1</td>
<td>Additional information</td>
<td>Added</td>
<td></td>
</tr>
</tbody>
</table>

Abbreviations and acronyms:

- **PBT**: Persistent Bioaccumulative Toxic
- **ADR**: European Agreement concerning the International Carriage of Dangerous Goods by Road
- **vPvB**: Very Persistent and Very Bioaccumulative
- **LC50**: Median lethal concentration
- **LD50**: Median lethal dose
- **EC50**: Median effective concentration
- **NOEC**: No-Observed Effect Concentration
- **IMDG**: International Maritime Dangerous Goods
- **IATA**: International Air Transport Association
- **ADN**: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
- **RID**: Regulations concerning the International Carriage of Dangerous Goods by Rail

Data sources:
- SDS of suppliers.
- ECHA (European Chemicals Agency).

Full text of H- and EUH-statements:

- **Acute Tox. 4 (Oral)**: Acute toxicity (oral), Category 4
- **Aquatic Chronic 3**: Hazardous to the aquatic environment — Chronic Hazard, Category 3
- **Asp. Tox. 1**: Aspiration hazard, Category 1
- **Eye Dam. 1**: Serious eye damage/eye irritation, Category 1
- **Eye Irrit. 2**: Serious eye damage/eye irritation, Category 2
- **Flam. Liq. 2**: Flammable liquids, Category 2
- **Repr. 2**: Reproductive toxicity, Category 2
- **Skin Irrit. 2**: Skin corrosion/irritation, Category 2
- **Skin Sens. 1**: Skin sensitisation, Category 1
- **STOT RE 2**: Specific target organ toxicity — Repeated exposure, Category 2
- **STOT SE 3**: Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
<table>
<thead>
<tr>
<th>STOT SE 3</th>
<th>Specific target organ toxicity — Single exposure, Category 3, Narcosis</th>
</tr>
</thead>
<tbody>
<tr>
<td>H225</td>
<td>Highly flammable liquid and vapour.</td>
</tr>
<tr>
<td>H302</td>
<td>Harmful if swallowed.</td>
</tr>
<tr>
<td>H304</td>
<td>May be fatal if swallowed and enters airways.</td>
</tr>
<tr>
<td>H315</td>
<td>Causes skin irritation.</td>
</tr>
<tr>
<td>H317</td>
<td>May cause an allergic skin reaction.</td>
</tr>
<tr>
<td>H318</td>
<td>Causes serious eye damage.</td>
</tr>
<tr>
<td>H319</td>
<td>Causes serious eye irritation.</td>
</tr>
<tr>
<td>H335</td>
<td>May cause respiratory irritation.</td>
</tr>
<tr>
<td>H336</td>
<td>May cause drowsiness or dizziness.</td>
</tr>
<tr>
<td>H361d</td>
<td>Suspected of damaging the unborn child.</td>
</tr>
<tr>
<td>H373</td>
<td>May cause damage to organs through prolonged or repeated exposure.</td>
</tr>
<tr>
<td>H412</td>
<td>Harmful to aquatic life with long lasting effects.</td>
</tr>
<tr>
<td>EUH208</td>
<td>Contains ISK Disodium maleate(371-47-1). May produce an allergic reaction.</td>
</tr>
<tr>
<td>EUH401</td>
<td>To avoid risks to human health and the environment, comply with the instructions for use.</td>
</tr>
</tbody>
</table>

**SDS EU (REACH Annex II) BCP**

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.