

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

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP] Mixtures/Substances: SDS EU 2015: According to Regulation (EU) 2015/830 (REACH Annex II)

Not classified

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]

Signal word (CLP) : None
 Hazard statements (CLP) : None.
 Precautionary statements (CLP) : None.
 EUH-statements : EUH210 - Safety data sheet available on request.
 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

Name	Product identifier	Conc (% w/w)	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Flonicamid	(EC-No.) 158062-67-0	50 - 80	Acute Tox. 4 (Oral), H302
Sodium dioctyl sulphosuccinate	(CAS-No.) 577-11-7 (REACH-no) 01-2119491296-29	1 - 5	Skin Irrit. 2, H315 Eye Irrit. 2, H319
Naphthalenesulfonic acid, methyl-, polymer with formaldehyde, sodium salt	(CAS-No.) 81065-51-2	1 - 5	Eye Dam. 1, H318
Isotridecanol, ethoxylated	(CAS-No.) 69011-36-5 (EC-No.) 500-241-6	1 - 5	Aquatic Chronic 3, H412
2,5-Furandione, polymer with 2,4,4-trimethylpentene, sodium salt	(CAS-No.) 37199-81-8	1 - 5	Eye Irrit. 2, H319

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

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	: Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell.
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	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Do not apply (chemical) neutralizing agents.
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	: Water spray. ABC-powder. Polyvalent foam. Carbon dioxide.
Unsuitable extinguishing media	: None.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire	: Toxic and corrosive vapours may be released. Hydrogen cyanide. Hydrofluoric Acid. Carbon monoxide. Carbon dioxide. Nitrogen oxides.
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5.3. Advice for firefighters

Firefighting instructions	: Cool tanks/drums with water spray/remove them into safety. Dilute toxic gases with water spray.
Protection during firefighting	: Complete protective clothing. Gloves. Protective non-flammable clothing. Dust cloud production: compressed air/oxygen apparatus. Gas-tight suit.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Avoid dust production.
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6.1.1. For non-emergency personnel

Protective equipment	: Concerning personal protective equipment to use, see section 8.
Emergency procedures	: Ventilate spillage area. Avoid contact with skin and eyes.
Measures in case of dust release	: Do not breathe dust.

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". Protective gloves. Protective clothing. Dust cloud production: compressed air/oxygen apparatus.
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6.2. Environmental precautions

Avoid release to the environment. Prevent soil and water pollution. Do not flush into surface water or sewer system. 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 absorbent material, e.g.: sand/earth. Sweep or shovel spills into appropriate container for disposal. Store in tightly closed, leak-proof containers.
Methods for cleaning up	: Mechanically recover the product. Clean contaminated surfaces with an excess of water.
Other information	: Dispose of materials or solid residues at an authorized site. 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

Additional hazards when processed	: Avoid formation of dust. Do not discharge waste into drains.
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Precautions for safe handling	: Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment.
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Handle in accordance with good industrial hygiene and safety practice. If on skin, take off contaminated clothing. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	: Keep container tightly closed. 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

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Device	Filter type	Condition	Standard
	Type P1		

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Granulate.
Colour	: brown.
Odour	: slight. ammonia odour.
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	: Not applicable
Boiling point	: No data available
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not flammable, Not self-igniting
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

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Viscosity, dynamic	: No data available
Explosive properties	: Not explosive.
Oxidising properties	: Non oxidizing.
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). Avoid dust formation.

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)

Teppeki	
LD50 oral rat	> 2000 mg/kg (female/male; OECD 423)
LD50 dermal rat	> 2000 mg/kg (female/male; OECD 402)
LC50 inhalation rat (mg/l)	> 5.36 mg/l/4h

Flonicamid	
LD50 oral rat	884 - 1768 mg/kg (male - female)
LD50 dermal rat	> 5000 mg/kg
LC50 inhalation rat (mg/l)	> 4.9 mg/l/4h

Skin corrosion/irritation	: 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	: Based on available data, the classification criteria are not met
Additional information	: (OECD 405 method) Not irritating to rabbits on ocular application
Respiratory or skin sensitisation	: 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	: Based on available data, the classification criteria are not met
Carcinogenicity	: Based on available data, the classification criteria are not met

Flonicamid	
NOAEL (chronic, oral, animal/male, 2 years)	7.32 mg/kg bodyweight

Reproductive toxicity	: Based on available data, the classification criteria are not met
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Flonicamid	
NOAEL (animal/male, F0/P)	18 mg/kg bodyweight (rat; OECD 416)
NOAEL (animal/male, F1)	30 mg/kg bodyweight (rat; OECD 416)
NOAEL, oral, rat, male	109 mg/kg bw/day (18 months, OECD 414)
NOAEL, oral, rat, female	100 mg/kg bw/day (OECD 414)

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NOAEL, oral, rabbit, female	7.5 mg/kg bw/day ((OECD 414))
NOAEL, Developmental toxicity, oral, rat, female	100 mg/kg bw/day (OECD 414)
NOAEL, Developmental toxicity, oral, rabbit, female	> 25 mg/kg bw/day (OECD 414)

STOT-single exposure : Based on available data, the classification criteria are not met

STOT-repeated exposure : Based on available data, the classification criteria are not met

Flonicamid	
NOAEL (subchronic, oral, animal/male, 90 days)	60 mg/kg bodyweight (rat; OECD 408)
NOAEL, mouse, male, female	15.3 mg/kg bw/day
NOAEL, Dog, male, female	8 mg/kg bw/day

Isotridecanol, ethoxylated (69011-36-5)	
NOAEL (oral, rat, 90 days)	500 mg/kg bodyweight/day

Aspiration hazard : 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.

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

Chronic aquatic toxicity : Not classified (Based on available data, the classification criteria are not met)

Teppeki	
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	
LC50 fish 1	> 100 mg/kg (96 H; Oncorhynchus mykiss (Rainbow trout); Lepomis macrochirus (Bluegill); OECD 203)
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	
Persistence and degradability	Not readily biodegradable.

Isotridecanol, ethoxylated (69011-36-5)	
Persistence and degradability	Readily biodegradable.

12.3. Bioaccumulative potential

Flonicamid	
Log Pow	-0.24 (20 °C)
Bioaccumulative potential	Not potentially bioaccumulable.

Isotridecanol, ethoxylated (69011-36-5)	
BCF fish 1	99.4 - 130 l/kg/d
Log Pow	4.73 (25%)
Bioaccumulative potential	Negligible.

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12.4. Mobility in soil

Flonicamid	
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

Regional legislation (waste)	: waste instructions.
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.
Ecology - waste materials	: Do not discharge into drains or rivers.

SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.2. UN proper shipping name				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.4. Packing group				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental hazards				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information available				

14.6. Special precautions for user

Overland transport

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

Inland waterway transport

Not regulated

Rail transport

Not regulated

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

Directive 2012/18/EU (SEVESO III)

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15.1.2. National regulations

National regulation

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

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
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
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.
H412	Harmful to aquatic life with long lasting effects.
EUH210	Safety data sheet available on request.
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