

SAFETY DATA SHEET

Based upon Regulation (EC) No. 1907/2006, as amended by Regulation (EC) No. 453/2010

TEPPEKI

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

1.1 Product identifier:

Product name : TEPPEKI
Synonyms : IKI-220 500WG
Registration number REACH : Not applicable (mixture)
Product type REACH : Mixture

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

1.2.1 Relevant identified uses

INSECTICIDE

1.2.2 Uses advised against

No uses advised against known.

1.3 Details of the supplier of the safety data sheet:

Supplier of the safety data sheet

ISK Biosciences Europe N.V.
Pegasus Park, De Kleetlaan 12B - box 9 B-1831 Diegem, Belgium
Tel: +32 2 627 86 11
Fax: +32 2 627 86 00
isk-msds@isk.be

1.4 Emergency telephone number:

24h/24h (Telephone advice: English, French, German, Dutch):
+32 14 58 45 45 (BIG)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture:

2.1.1 Classification according to Regulation EC No 1272/2008

Classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

Class	Category	Hazard statements
NONE	NONE	NONE

2.1.2 Classification according to Directive 67/548/EEC-1999/45/EC

Classified as dangerous in accordance with the criteria of Directives 67/548/EEC and 1999/45/EC
N; R50-53 - Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

2.2 Label elements:

Labelling according to Regulation EC No 1272/2008 (CLP)

Hazard pictograms

No pictogram is used

Signal word NO SIGNAL WORD

H-statements
NO STATEMENTS

P-statements
NO STATEMENTS

2.3 Other hazards:

CLP

No other hazards known.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures:

Name (REACH Registration No)	CAS No EC No	Conc. (C)	Classification according to DSD/DPD	Classification according to CLP	Note	Remark
flonicamid (-)	158062-67-0	50 %	Xn; R22	Acute Tox. 4; H302	(1)	Constituent
methylnaphthalenesulfonic acid/formaldehyde, copolymer, sodium salt (-)	81065-51-2	<5 %	Xi; R41	Eye Dam. 1; H318	(1)	Constituent
docusate sodium (-)	577-11-7 209-406-4	<5 %	Xi; R38 - 41	Skin Irrit. 2; H315 Eye Dam. 1; H318	(1)	Constituent
silicon dioxide (-)	7631-86-9 231-545-4	<10 %			(2)	Constituent
isotridecanol, ethoxylated (-)	69011-36-5 500-241-6	<5 %	Xn; R22 Xi; R41	Acute Tox. 4; H302 Eye Dam. 1; H318	(1)	Constituent
kaolin (-)	1332-58-7 310-194-1	<15 %			(2)	Constituent

(1) For R-phrases and H-statements in full: see heading 16

(2) Substance with a Community workplace exposure limit

SECTION 4: First aid measures

4.1 Description of first aid measures:

General:

If you feel unwell, seek medical advice.

After inhalation:

Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

After skin contact:

Rinse with water. Soap may be used. Take victim to a doctor if irritation persists.

After eye contact:

Rinse with water. Do not apply neutralizing agents. Take victim to an ophthalmologist if irritation persists.

After ingestion:

Rinse mouth with water. Do not induce vomiting. Consult a doctor/medical service if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed:

4.2.1 Acute symptoms

After inhalation:

No effects known.

After skin contact:

Not irritating.

After eye contact:

Not irritating.

After ingestion:

No effects known.

4.2.2 Delayed symptoms

No effects known.

4.3 Indication of any immediate medical attention and special treatment needed:

If applicable and available it will be listed below.

SECTION 5: Firefighting measures

5.1 Extinguishing media:

5.1.1 Suitable extinguishing media:

Water spray. Polyvalent foam. ABC powder. Carbon dioxide.

5.1.2 Unsuitable extinguishing media:

No unsuitable extinguishing media known.

5.2 Special hazards arising from the substance or mixture:

On burning: release of toxic and corrosive gases/vapours (nitrous vapours, hydrofluoric acid, carbon monoxide - carbon dioxide).

Advice for firefighters:

5.3.1 Instructions:

Cool tanks/drums with water spray/remove them into safety. Dilute toxic gases with water spray. Take account of environmentally hazardous firefighting water. Use water moderately and if possible collect or contain it.

5.3.2 Special protective equipment for fire-fighters:

Gloves. Protective clothing. Heat/fire exposure: compressed air/oxygen apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

6.1.1 Protective equipment for non-emergency personnel

See heading 8.2

6.1.2 Protective equipment for emergency responders

Gloves. Protective clothing.

Suitable protective clothing

See heading 8.2

6.2 Environmental precautions:

Contain released substance, pump into suitable containers. Plug the leak, cut off the supply. Dam up the solid spill. Prevent soil and water pollution. Prevent spreading in sewers.

6.3 Methods and material for containment and cleaning up:

Scoop solid spill into closing containers. Carefully collect the spill/leftovers. Clean contaminated surfaces with an excess of water. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling.

6.4 Reference to other sections:

See heading 13.

SECTION 7: Handling and storage

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

7.1 Precautions for safe handling:

Avoid raising dust. Keep away from naked flames/heat. Observe normal hygiene standards. Keep container tightly closed. Do not discharge the waste into the drain.

7.2 Conditions for safe storage, including any incompatibilities:

7.2.1 Safe storage requirements:

Store at room temperature. Keep only in the original container. Meet the legal requirements. Max. storage time: 1095 day(s).

7.2.2 Keep away from:

Heat sources.

7.2.3 Suitable packaging material:

Polyethylene.

7.2.4 Non suitable packaging material:

No data available

7.3 Specific end use(s):

If applicable and available, exposure scenarios are attached in annex. See information supplied by the manufacturer.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters:

8.1.1 Occupational exposure

a) Occupational exposure limit values

If limit values are applicable and available these will be listed below.

The Netherlands

Kaoline	Time-weighted average exposure limit 8 h	10 mg/m ³	Private occupational exposure limit value
---------	--	----------------------	---

Belgium			
Kaolin (fraction alvéolaire)	Time-weighted average exposure limit 8 h	2 mg/m ³	
USA (TLV-ACGIH)			
Kaolin	Time-weighted average exposure limit 8 h	2 mg/m ³ (R,E)	TLV - Adopted Value; R,E: Respirable fraction. The value is for particulate matter containing no asbestos and < 1% crystalline silica
France			
Kaolin	Short time value	- ppm - mg/m ³	
	Time-weighted average exposure limit 8 h	- ppm 10 mg/m ³	VL: Valeur non réglementaire indicative
UK			
Kaolin, respirable dust	Short time value		Workplace exposure limit (EH40/2005)
	Time-weighted average exposure limit 8 h	2 mg/m ³	Workplace exposure limit (EH40/2005)

b) National biological limit values

If limit values are applicable and available these will be listed below.

8.1.2 Sampling methods

Product name	Test	Number
No data available		

8.1.3 Applicable limit values when using the substance or mixture as intended

If limit values are applicable and available these will be listed below.

8.1.4 DNEL/PNEC values

If applicable and available it will be listed below.

8.1.5 Control banding

If applicable and available it will be listed below.

8.2 Exposure controls:

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

8.2.1 Appropriate engineering controls

Avoid raising dust. Keep away from naked flames/heat. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.

8.2.2 Individual protection measures, such as personal protective equipment

Observe normal hygiene standards. Keep container tightly closed. Do not eat, drink or smoke during work.

a) Respiratory protection:

Dust production: dust mask with filter type P1.

b) Hand protection:

Gloves.

c) Eye protection:

Safety glasses. In case of dust production: protective goggles.

d) Skin protection:

Protective clothing.

8.2.3 Environmental exposure controls:

See headings 6.2, 6.3 and 13

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Physical form	Solid
	Grains
Odour	Mild odour
	Ammonia odour
Odour threshold	No data available
Colour	Brown
Particle size	No data available
Explosion limits	Not applicable
Flammability	Non combustible
Log Kow	Not applicable (mixture)
Dynamic viscosity	No data available
Kinematic viscosity	No data available
Melting point	No data available
Boiling point	No data available
Flash point	Not applicable
Evaporation rate	ether ; No data available
Vapour pressure	No data available
Relative vapour density	No data available
Solubility	water ; soluble ; Literature
Relative density	0.543
Decomposition temperature	No data available
Auto-ignition temperature	Not applicable
Explosive properties	No chemical group associated with explosive properties
Oxidising properties	No chemical group associated with oxidising properties
pH	8.3 ; 1 %

Physical hazards

No physical hazard class

9.2 Other information:

Absolute density	543 kg/m ³
------------------	-----------------------

SECTION 10: Stability and reactivity

10.1 Reactivity:

Substance has basic reaction.

10.2 Chemical stability:

Stable under normal conditions.

10.3 Possibility of hazardous reactions:

No data available.

10.4 Conditions to avoid:

Avoid raising dust. Keep away from naked flames/heat.

10.5 Incompatible materials:

No data available.

10.6 Hazardous decomposition products:

On burning: release of toxic and corrosive gases/vapours (nitrous vapours, hydrofluoric acid, carbon monoxide - carbon dioxide).

SECTION 11: Toxicological information

11.1 Information on toxicological effects:

11.1.1 Test results

Acute toxicity

TEPPEKI

Route of exposure	Parameter	Method	Value	Exposure time	Species	Gender	Value determination
Oral	LD50		> 2000 mg/kg		Rat		Experimental value
Dermal	LD50		> 2000 mg/kg		Rat		Experimental value
Inhalation	LC50		> 5.36 mg/l	4 h	Rat		Experimental value

Flonicamid

Route of exposure	Parameter	Method	Value	Exposure time	Species	Gender	Value determination
Oral	LD50		884 mg/kg		Rat	Male	Experimental value
Oral	LD50		1768 mg/kg bw		Rat	Female	Experimental value
Dermal	LD50		> 5000 mg/kg		Rat		Experimental value
Inhalation	LC50		> 4.9 mg/l	4 h	Rat		Experimental value

docusate sodium

Route of exposure	Parameter	Method	Value	Exposure time	Species	Gender	Value determination
Oral	LD50		>2000 mg/kg		Rat		
Dermal	LD50		>10000 mg/kg		Rabbit		

Classification of the mixture is based on test data on the mixture as a whole

Conclusion

Not classified for acute toxicity

Corrosion/irritation

TEPPEKI

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination
Eye	Not irritating				Rabbit	Experimental value

Flonicamid

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination
Eye	Not irritating					Experimental value
Skin	Not irritating					Experimental value

Classification of the mixture is based on test data on the mixture as a whole

Conclusion

Not classified as irritating to the skin

Not classified as irritating to the eyes

Respiratory or skin sensitisation

TEPPEKI

No (test) data on the mixture available

Cyazofamid

Route of exposure	Result	Method	Exposure time	Observation time point	Species	Gender	Value determination
Skin	Not sensitizing						Experimental value

Classification of the mixture is based on test data on the mixture as a whole

Conclusion

Not classified as sensitizing for skin

Specific target organ toxicity

TEPPEKI

No (test)data on the mixture available

Mutagenicity (in vitro)

TEPPEKI

No (test)data on the mixture available

Mutagenicity (in vivo)

TEPPEKI

No (test)data on the mixture available

Carcinogenicity

TEPPEKI

No (test)data on the mixture available

Reproductive toxicity

TEPPEKI

No (test)data on the mixture available

Conclusion CMR

Not classified for mutagenic or genotoxic toxicity

Not classified for carcinogenicity

Not classified for reprotoxic or developmental toxicity

Toxicity other effects

TEPPEKI

No (test)data on the mixture available

Chronic effects from short and long-term exposure

TEPPEKI

No effects known.

11.1.2 Other information

TEPPEKI

No (test)data on the mixture available

kaolin

TLV - Carcinogen	A4
MAK - Krebserzeugend Kategorie	3B

SECTION 12: Ecological information:

12.1 Toxicity:

TEPPEKI

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity other aquatic organisms	LC50		50 - 100mg/l					Experimental value

Flonicamid

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50		> 0.100 mg/l	96 h	Lepomis macrochirus			Experimental value
Acute toxicity invertebrates	EC50		> 100 mg/l	48 h	Daphnia magna			Experimental value
	NOEC		3.1 mg/l	21 day(s)	Daphnia magna			Experimental value
Toxicity algae and other aquatic plants	ErC50		> 100 mg/l	72h	Selenastrum			Experimental value
	EbC50		> 100 mg/l	72 h	Selenastrum capricornutum			Experimental value

docusate sodium

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50		28 mg/l	96 h	Oncorhynchus mykiss			
Acute toxicity invertebrates	EC50		36 mg/l	48 h	Daphnia magna			

Classification of the mixture is based on test data on the mixture as a whole

Conclusion

Harmful to aquatic organisms.

Harmful to aquatic life with long lasting effects.

12.2 Persistence and degradability:TEPPEKI**Half-life soil (t1/2 soil)**

Method	Value	Primary degradation/mineralisation	Value determination
	> 7 day(s)		

docusate sodium**Biodegradation water**

Method	Value	Duration	Value determination
OECD 301D: Closed Bottle Test	66.7 %	28 day(s)	Experimental value

Conclusion

No straightforward conclusion can be drawn based upon the available numerical values.

12.3 Bioaccumulative potential:TEPPEKI**Log Kow**

Method	Remark	Value	Temperature	Value determination
	Not applicable (mixture)			

Flonicamid**Log Kow**

Method	Remark	Value	Temperature	Value determination
		0.3		

methylnaphthalenesulfonic acid/formaldehyde, copolymer, sodium salt**Log Kow**

Method	Remark	Value	Temperature	Value determination
	No data available			

docusate sodium**BCF fishes**

Parameter	Method	Value	Duration	Species	Value determination
BCF		0.9/<9.3		Cyprinus carpio	

Log Kow

Method	Remark	Value	Temperature	Value determination
	No data available			

isotridecanol, ethoxylated

Log Kow

Method	Remark	Value	Temperature	Value determination
	No data available			

kaolin

Log Kow

Method	Remark	Value	Temperature	Value determination
	No data available			

Conclusion

No straightforward conclusion can be drawn based upon the available numerical values

12.4 Mobility in soil:

Flonicamid

(log) Koc

Parameter	Method	Value	Value determination
Koc			No data available

Conclusion

No (test)data on mobility of the components of the mixture available

12.5 Results of PBT and vPvB assessment:

Does not contain component(s) that meet(s) the criteria of PBT and/or vPvB as listed in Annex XIII of Regulation (EC) No. 1907/2006.

12.6 Other adverse effects:

TEPPEKI

Global warming potential (GWP)

None of the known components is included in the list of substances which may contribute to the greenhouse effect (Regulation (EC) No 842/2006)

Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer (Regulation (EC) No. 1272/2008 and 1005/2009)

flonicamid

Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer (Regulation (EC) No. 1272/2008 and 1005/2009)

docusate sodium

Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer (Regulation (EC) No. 1272/2008 and 1005/2009)

kaolin

Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer (Regulation (EC) No. 1272/2008 and 1005/2009)

SECTION 13: Disposal considerations

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

13.1 Waste treatment methods:

13.1.1 Provisions relating to waste

Waste material code (Directive 2008/98/EC, decision 2000/0532/EC).

02 01 08* (agrochemical waste containing dangerous substances). Hazardous waste according to Directive 2008/98/EC.

13.1.2 Disposal methods

Dissolve or mix with a combustible solvent. Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber with energy recovery. Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Use appropriate containment to avoid environmental contamination.

13.1.3 Packaging/Container

Waste material code packaging (Directive 2008/98/EC).

15 01 10* (packaging containing residues of or contaminated by dangerous substances).

SECTION 14: Transport information

Road (ADR)

14.1 UN number:	Transport	Not subject
14.2 UN proper shipping name:		
14.3 Transport hazard class(es):		
Hazard identification number		
Class		
Classification code		
14.4 Packing group:		
Packing group		
Labels		
14.5 Environmental hazards:		
Environmentally hazardous substance mark	no	
14.6 Special precautions for user:		
Special provisions		
Limited quantities		

Rail (RID)

14.1 UN number:	Transport	Not subject
14.2 UN proper shipping name:		
14.3 Transport hazard class(es):		
Class		
Classification code		
14.4 Packing group:		
Packing group		
Labels		
14.5 Environmental hazards:		
Environmentally hazardous substance mark	no	
14.6 Special precautions for user:		
Special provisions		
Limited quantities		

Inland waterways (ADN)

14.1 UN number:	Transport	Not subject
14.2 UN proper shipping name:		
14.3 Transport hazard class(es):		
Class		
14.4 Packing group:		
Packing group		
Labels		
14.5 Environmental hazards:		
Marine pollutant	-	
Environmentally hazardous substance mark	no	
14.6 Special precautions for user:		
Special provisions		
Limited quantities		

Sea (IMDG)

14.1 UN number:	Transport	Not subject
14.2 UN proper shipping name:		
14.3 Transport hazard class(es):		
Class		

Classification code	
14.4 Packing group:	
Packing group	
Labels	
14.5 Environmental hazards:	
Marine pollutant	-
Environmentally hazardous substance mark	no
14.6 Special precautions for user:	
Special provisions	
Limited quantities	
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:	
Annex II of MARPOL 73/78	

Air (ICAO-TI/IATA-DGR)

14.1 UN number:	
Transport	Not subject
14.2 UN proper shipping name:	
14.3 Transport hazard class(es):	
Class	
14.4 Packing group:	
Packing group	
Labels	
14.5 Environmental hazards:	
Environmentally hazardous substance mark	no
14.6 Special precautions for user:	
Special provisions	
Passenger and cargo transport: limited quantities: maximum net quantity per packaging	

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

European legislation:

National legislation

- The Netherlands

Waterbezwaarlijkheid	11
Waste identification other lists of waste materials	LWCA (the Netherlands): KGA category 04

- Germany

WGK	1	Classification water polluting based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 27 July 2005 (Anhang 4)
TA-Luft	kaolin	TA-Luft Klasse 5.2.1

15.2 Chemical safety assessment:

No chemical safety assessment has been conducted.

SECTION 16: Other information

Labelling according to Directive 67/548/EEC-1999/45/EC (DSD/DPD)

R-phrases

52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

S-phrases

61 Avoid release to the environment. Refer to special instructions/safety data sheets.

Full text of any R-phrases referred to under headings 2 and 3:

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

R38 Irritating to skin

R22 Harmful if swallowed

R41 Risk of serious damage to eyes

R52 Harmful to aquatic organisms

R53 May cause long-term adverse effects in the aquatic environment

Full text of any H-statements referred to under headings 2 and 3:

H412 Harmful to aquatic life with long lasting effects.

H302 Harmful if swallowed.

H318 Causes serious eye damage.

H315 Causes skin irritation.

(*) = INTERNAL CLASSIFICATION BY BIG

PBT-substances = persistent, bioaccumulative and toxic substances

DSD Dangerous Substance Directive

DPD Dangerous Preparation Directive

CLP (EU-GHS) Classification, labelling and packaging (Globally Harmonised System in Europe)

The information in this safety data sheet is based on data and samples provided to BIG. The sheet was written to the best of our ability and according to the state of knowledge at that time. The safety data sheet only constitutes a guideline for the safe handling, use, consumption, storage, transport and disposal of the substances/preparations/mixtures mentioned under point 1. New safety data sheets are written from time to time. Only the most recent versions may be used. Old versions must be destroyed. Unless indicated otherwise word for word on the safety data sheet, the information does not apply to substances/preparations/mixtures in purer form, mixed with other substances or in processes. The safety data sheet offers no quality specification for the substances/preparations/mixtures in question. Compliance with the instructions in this safety data sheet does not release the user from the obligation to take all measures dictated by common sense, regulations and recommendations or which are necessary and/or useful based on the real applicable circumstances. BIG does not guarantee the accuracy or exhaustiveness of the information provided and cannot be held liable for any changes by third parties. This safety data sheet is only to be used within the European Union, Switzerland, Iceland, Norway and Liechtenstein. Any use outside of this area is at your own risk. Use of this safety data sheet is subject to the licence and liability limiting conditions as stated in your BIG licence agreement or when this is failing the general conditions of BIG. All intellectual property rights to this sheet are the property of BIG and its distribution and reproduction are limited. Consult the mentioned agreement/conditions for details.