

# IKF-1216 500SC

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830  
Date of issue: 6/17/2002 Revision date: 11/29/2018 Supersedes: 8/28/2018 Version: 10.0

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

#### 1.1. Product identifier

Product form : Mixture  
Trade name : Winner; Shirlan; Ohayo; Frowncide; Winby; Ibiza SC; Boyano; Shirlan 500SC; Altima 500SC; Dirango; Ibiza 500; Ohayo 50SC; Altima; Altima 500s.k.; Sirlans 500s.k.; Ohayo 500s.k.; Winby 500s.k.; Frowncide 500s.k.; Ohayo 500SC; Winby 500SC; Legacy; Shirlan Programme; Mapro; Sekoya  
Product code : IKF-1216 500SC, IBE 3876

#### 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 : Fungicide

##### 1.2.2. Uses advised against

No additional information available

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

ISK Biosciences Europe N.V.  
Pegasus Park, De Kleetlaan 12B - box 9  
B-1831 Diegem - Belgium  
T +32 2 627 86 11 - F +32 2 627 86 00  
[isk-msds@isk.be](mailto:isk-msds@isk.be)

#### 1.4. Emergency telephone number

Emergency number : +32 14 58 45 45

### 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
Repr. 2	H361d
Aquatic Acute 1	H400
Aquatic Chronic 1	H410

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

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

May cause an allergic skin reaction. Suspected of damaging the unborn child. Very toxic to aquatic life with long lasting effects.

#### 2.2. Label elements

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

Hazard pictograms (CLP) :



GHS07

GHS08

GHS09

Signal word (CLP) :

Warning

Hazardous ingredients

: Fluazinam (ISO); 1,2-benzisothiazol-3(2H)-one

Hazard statements (CLP)

: H317 - May cause an allergic skin reaction.  
H361d - Suspected of damaging the unborn child.  
H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements (CLP)

: P201 - Obtain special instructions before use.  
P202 - Do not handle until all safety precautions have been read and understood.  
P261 - Avoid breathing vapours.  
P272 - Contaminated work clothing should not be allowed out of the workplace.  
P273 - Avoid release to the environment.  
P280 - Wear eye protection, face protection, protective clothing, protective gloves.  
P302+P352 - IF ON SKIN: Wash with plenty of water/...  
P308+P313 - IF exposed or concerned: Get medical advice/attention.  
P321 - Specific treatment (see supplemental first aid instruction on this label).  
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.  
P362+P364 - Take off contaminated clothing and wash it before reuse.  
P391 - Collect spillage.  
P405 - Store locked up.  
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

# IKF-1216 500SC

## Safety Data Sheet

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

### 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	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Fluazinam (ISO)	(CAS-No.) 79622-59-6 (EC Index-No.) 612-287-00-5	25 - 50	Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1A, H317 Repr. 2, H361d Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)
Poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-[2,4,6-tris(1-phenylethyl)phenoxy]-, ammonium salt	(CAS-No.) 119432-41-6	1 - 5	Eye Irrit. 2, H319 Aquatic Chronic 3, H412
1,2-benzisothiazol-3(2H)-one	(CAS-No.) 2634-33-5 (EC-No.) 220-120-9 (EC Index-No.) 613-088-00-6	< 0,05	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400
Quartz (SiO <sub>2</sub> ) substance with a Community workplace exposure limit	(CAS-No.) 14808-60-7 (EC-No.) 238-878-4	< 0.1	Not classified

### Specific concentration limits:

Name	Product identifier	Specific concentration limits
1,2-benzisothiazol-3(2H)-one	(CAS-No.) 2634-33-5 (EC-No.) 220-120-9 (EC Index-No.) 613-088-00-6	(C >= 0.05) Skin Sens. 1, H317

Comments

: Contains :< 0.1 % Silica, respirable crystalline

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	: Wash skin with mild soap and water. If case of redness or irritation, get medical advice/attention.
First-aid measures after eye contact	: 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 induce vomiting. Do not give an unconscious person anything to drink. Consult a doctor/medical service if you feel unwell.

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

Symptoms/effects after skin contact	: May cause an allergic skin reaction.
Symptoms/effects after eye contact	: May cause slight 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	: All extinguishing agents can be used.
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### 5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire	: Toxic and corrosive vapours may be released : Nitrous fumes. Hydrogen chloride. Hydrofluoric acid. Carbon monoxide (CO). Carbon dioxide (CO <sub>2</sub> ). Sulphur oxides.
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### 5.3. Advice for firefighters

Firefighting instructions	: Dilute toxic gases with water spray. Contain the extinguishing fluids by bunding (the product is hazardous for the environment).
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# IKF-1216 500SC

## Safety Data Sheet

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

Protection during firefighting	: Gloves. Full protective flameproof clothing. Heat/fire exposure: compressed air/oxygen apparatus. Gas-tight suit.
Other information	: Do not dispose of fire-fighting water in the environment.

### SECTION 6: Accidental release measures

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

General measures : Evacuate area.

##### 6.1.1. For non-emergency personnel

Protective equipment : For further information refer to section 8: "Exposure controls/personal protection".  
Emergency procedures : Avoid contact with skin and eyes. Do not breathe vapours.

##### 6.1.2. For emergency responders

Protective equipment : Protective gloves. Protective clothing.

#### 6.2. Environmental precautions

Stop leak if safe to do so. Contain leaking substance, pump over in suitable containers. Contain the spilled material by bunding. Do not flush into surface water or sewer system. Do not allow uncontrolled discharge of product into the environment.

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

For containment : Take up liquid spill into absorbent material. Shovel into suitable and closed container for disposal. Carefully collect remainder.  
Methods for cleaning up : Clean contaminated surfaces with an excess of water.  
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 : Do not get in eyes, on skin, or on clothing. 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 during use. Separate working clothes from town clothes. Launder separately.

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

Technical measures : The floor of the depot should be impermeable and designed to form a water-tight basin.  
Storage conditions : Store in a dry, cool area. Protect from heat and direct sunlight. Keep the container hermetically sealed. Keep out of the reach of children. Keep away from food, drink and animal feeding stuffs.  
Special rules on packaging : Store in original container.

#### 7.3. Specific end use(s)

No additional information available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

Quartz (SiO <sub>2</sub> ) (14808-60-7)		
EU	Local name	Silica crystalline (Quartz)
EU	IOELV TWA (mg/m <sup>3</sup> )	< 0.05 mg/m <sup>3</sup> Silica, respirable crystalline
EU	Notes	(Year of adoption 2003)
EU	Regulatory reference	SCOEL Recommendations

#### 8.2. Exposure controls

##### Appropriate engineering controls:

Provide local exhaust or general room ventilation.

##### Materials for protective clothing:

Rubber. Plastic. Polyvinylchloride (PVC)

##### Hand protection:

Protective gloves. The protective gloves to be used must comply with the specifications of Regulation (EC) No. 2016/425. PVC or other plastic material or natural rubber gloves. Breakthrough time : refer to the recommendations of the supplier

##### Eye protection:

Safety goggles or face shield

# IKF-1216 500SC

## Safety Data Sheet

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

### Skin and body protection:

Protective clothing

### Respiratory protection:

In the event of exposure to high concentrations : Gas mask with filter type A

### 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	: Liquid
Appearance	: Suspension.
Colour	: Light yellow.
Odour	: Odourless.
Odour threshold	: No data available
pH	: No data available
pH solution	: 5.4 - 6.56 (1% w/v)
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: Not applicable
Auto-ignition temperature	: Not self-igniting
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: 1.228 (20 °C) ; 1.29 (ambient temperature)
Density	: 1.228 g/cm <sup>3</sup> (20 °C) ; 1.29 g/cm <sup>3</sup> (ambient temperature)
Solubility	: No data available
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: 123 - 61.8 mPa.s (shear rate: 64.5-258/s) (20 °C); 92.8 - 43.8 mPa.s (shear rate: 64.5-258/s) (40 °C)
Explosive properties	: Not explosive.
Oxidising properties	: Non oxidizing.
Explosive limits	: No data available

### 9.2. Other information

Surface tension	: 53.1 mN/m (Aqueous solution of Fluazinam 500SC (1 g/l) (20 °C))
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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No dangerous reactions known under normal conditions of use.

### 10.2. Chemical stability

Stable at ambient temperature and under normal conditions of use.

### 10.3. Possibility of hazardous reactions

None to our knowledge.

### 10.4. Conditions to avoid

Avoid formation of vapours.

### 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)

# IKF-1216 500SC

## Safety Data Sheet

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

### IKF-1216 500SC

LD50 oral rat	> 2000 mg/kg bodyweight
LD50 dermal rat	> 2000 mg/kg bodyweight
LC50 inhalation rat (mg/l)	> 1.15 mg/l/4h (OECD 403 method)

### 1,2-benzisothiazol-3(2H)-one

LD50 dermal rat	> 2000 mg/kg bodyweight
Skin corrosion/irritation	: Not classified. (Based on available data, the classification criteria are not met)
Additional information	: Not irritating to rabbits on cutaneous application
Serious eye damage/irritation	: Not classified (Based on available data, the classification criteria are not met)
Additional information	: Slightly irritating to rabbits on ocular application
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Additional information	: Guinea pig : Skin sensitisation (EPA FIFRA 82-6 (1984))
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)

### Fluazinam (ISO) (79622-59-6)

NOAEL (chronic, oral, animal/male, 2 years)	1.9 mg/kg bw/day (rat)
NOAEL (chronic, oral, animal/male, 2 years)	1.12 mg/kg bw/day (mouse)

Reproductive toxicity : Suspected of damaging the unborn child.

### Fluazinam (ISO) (79622-59-6)

NOAEL (animal/male, F0/P)	1.5 mg/kg bw/day (rat)
NOAEL (animal/male, F1)	7.26 mg/kg bw/day (rat)
NOAEL (oral, rat, male)	7.26 mg/kg bw/day
NOAEL (maternal/Developmental toxicity, oral, rat, female)	10 mg/kg bw/day
NOAEL (maternal, oral, rabbit, female)	4 mg/kg bw/day
NOAEL (Developmental toxicity, oral, rabbit, female)	1 - 7 mg/kg bw/day

### 1,2-benzisothiazol-3(2H)-one (2634-33-5)

NOAEL (rat, Parental)	112 mg/kg bw/day
NOAEL (rat, F1/F2, Reproductive toxicity)	56.6 mg/kg bw/day

STOT-single exposure : Not classified (Based on available data, the classification criteria are not met)  
STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met)

### Fluazinam (ISO) (79622-59-6)

NOAEL (oral, rat, 90 days)	4.1 mg/kg bw/day
LOAEL (dermal, rat)	10 mg/kg bw/day (28 days)

### 1,2-benzisothiazol-3(2H)-one (2634-33-5)

NOAEL (oral, rat, 90 days)	69 mg/kg bw/day
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Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)

## SECTION 12: Ecological information

### 12.1. Toxicity

Acute aquatic toxicity : Very toxic to aquatic life.  
Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

# IKF-1216 500SC

## Safety Data Sheet

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

### IKF-1216 500SC

LC50 fish	0.16 mg/l (96 Hours) (Oncorhynchus mykiss (Rainbow trout)) (OECD 203 method)
EC50 Daphnia	0.31 mg/l (48 Hours) (Daphnia magna) (OECD 202 method)
ErC50 (algae)	> 5.7 mg/l (72 Hours) (Pseudokirchneriella subcapitata) (OECD 201 method)

### Fluazinam (ISO) (79622-59-6)

NOEC chronic fish	0.0029 mg/l (278 days) (Pimephales promelas)
NOEC chronic crustacea	0.0125 mg/l (21 days) (Daphnia magna)

### 12.2. Persistence and degradability

#### Fluazinam (ISO) (79622-59-6)

Persistence and degradability	Not readily biodegradable. Half-life (in soil): 72.5 days.
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### 1,2-benzisothiazol-3(2H)-one (2634-33-5)

Persistence and degradability	Inherently biodegradable.
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### Poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-[2,4,6-tris(1-phenylethyl)phenoxy]-, ammonium salt (119432-41-6)

Biodegradation	0 % (28 days)
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### 12.3. Bioaccumulative potential

#### Fluazinam (ISO) (79622-59-6)

BCF fish 1	1090 (Lepomis macrochirus)
Log Pow	4.03 (25 °C; pH: 5.5-7.0)

### 12.4. Mobility in soil

#### Fluazinam (ISO) (79622-59-6)

Log Koc	3.29
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### 12.5. Results of PBT and vPvB assessment

#### IKF-1216 500SC

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. Remove to an incinerator for chlorinated waste materials with energy recovery.
Product/Packaging disposal recommendations	: Incinerate at a licensed installation. Dispose of in accordance with relevant local regulations.
European List of Waste (LoW) code	: 02 01 08* - agrochemical waste containing dangerous substances 15 01 10* - packaging containing residues of or contaminated by dangerous substances

## SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number</b>				
3082	3082	3082	3082	3082
<b>14.2. UN proper shipping name</b>				
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fluazinam (ISO))	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fluazinam (ISO))	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fluazinam (ISO))	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fluazinam (ISO))	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fluazinam (ISO))

# IKF-1216 500SC

## Safety Data Sheet

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

### 14.3. Transport hazard class(es)

9	9	9	9	9

### 14.4. Packing group

III	III	III	III	III
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### 14.5. Environmental hazards

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

### 14.6. Special precautions for user

#### Overland transport

Classification code (ADR)	: M6
Special provisions (ADR)	: 274, 335, 601, 375
Limited quantities (ADR)	: 5I
Excepted quantities (ADR)	: E1
Packing instructions (ADR)	: P001, IBC03, LP01, R001
Mixed packing provisions (ADR)	: MP19
Portable tank and bulk container instructions (ADR)	: T4
Portable tank and bulk container special provisions (ADR)	: TP1, TP29
Tank code (ADR)	: LGBV
Vehicle for tank carriage	: AT
Transport category (ADR)	: 3
Special provisions for carriage - Packages (ADR)	: V12
Special provisions for carriage - Loading, unloading and handling (ADR)	: CV13
Hazard identification number (Kemler No.)	: 90
Orange plates	:

Tunnel restriction code (ADR)	: E
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#### Transport by sea

Special provisions (IMDG)	: 274, 335, 969
Limited quantities (IMDG)	: 5 L
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: P001, LP01
Special packing provisions (IMDG)	: PP1
IBC packing instructions (IMDG)	: IBC03
Tank instructions (IMDG)	: T4
Tank special provisions (IMDG)	: TP2, TP29
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-F
Stowage category (IMDG)	: A
MFAG-No	: 171

#### Air transport

PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y964
PCA limited quantity max net quantity (IATA)	: 30kgG
PCA packing instructions (IATA)	: 964
PCA max net quantity (IATA)	: 450L

# IKF-1216 500SC

## Safety Data Sheet

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

CAO packing instructions (IATA)	: 964
CAO max net quantity (IATA)	: 450L
Special provisions (IATA)	: A97, A158, A197
ERG code (IATA)	: 9L

### Inland waterway transport

Classification code (ADN)	: M6
Special provisions (ADN)	: 274, 335, 375, 601
Limited quantities (ADN)	: 5 L
Excepted quantities (ADN)	: E1
Carriage permitted (ADN)	: T
Equipment required (ADN)	: PP
Number of blue cones/lights (ADN)	: 0

### Rail transport

Classification code (RID)	: M6
Special provisions (RID)	: 274, 335, 375, 601
Limited quantities (RID)	: 5L
Excepted quantities (RID)	: E1
Packing instructions (RID)	: P001, IBC03, LP01, R001
Special packing provisions (RID)	: PP1
Mixed packing provisions (RID)	: MP19
Portable tank and bulk container instructions (RID)	: T4
Portable tank and bulk container special provisions (RID)	: TP1, TP29
Tank codes for RID tanks (RID)	: LGBV
Transport category (RID)	: 3
Special provisions for carriage – Packages (RID)	: W12
Special provisions for carriage - Loading, unloading and handling (RID)	: CW13, CW31
Colis express (express parcels) (RID)	: CE8
Hazard identification number (RID)	: 90

### 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

#### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out  
Not subject

## SECTION 16: Other information

### Indication of changes:

This sheet was updated (refer to the date at the top of this page). SDS changed section(s) : 1, 2, 11.

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

### Full text of H- and EUH-statements:

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



# IKF-1216 500SC

## Safety Data Sheet

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

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
Repr. 2	Reproductive toxicity, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1A	Skin sensitisation, category 1A
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H361d	Suspected of damaging 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.

### Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Skin Sens. 1	H317	Calculation method
Repr. 2	H361d	Expert judgment
Aquatic Acute 1	H400	On basis of test data
Aquatic Chronic 1	H410	Calculation method

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*