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ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier Product Name Product code

Acriflavine EA0022 & EA0023

Medication for Koi carp

Evolution Aqua Ltd.

United Kingdom

01942 216 554

Not available.

Only to be used with Koi

info@evolutionaqua.com

Kellet Close, Wigan, Lancashire

- 1.2 Relevant identified uses of the substance or mixture and uses advised against Identified Use(s) Uses Advised Against
- **1.3 Details of the supplier of the safety data sheet** Company Identification

Telephone Fax E-Mail (competent person)

1.4 Emergency telephone number Languages spoken +44 (0) 1942 216554 (Monday - Friday, GMT 08:30 - 17:00) English

SECTION 2: HAZARDS IDENTIFICATION

2.1 2.1.1	Classification of the substance or mixture Regulation (EC) No. 1272/2008 (CLP)	Eye Dam. 1; H318
2.2	Label elements Product Name Contains:	According to Regulation (EC) No. 1272/2008 (CLP) Acriflavine Acriflavine Hydrochloride
	Hazard Pictogram(s)	
	Signal Word(s)	DANGER
	Hazard Statement(s)	H318: Causes serious eye damage.
	Precautionary Statement(s)	 P101: If medical advice is needed, have product container or label at hand. P102: Keep out of reach of children. P280: Wear protective gloves/protective clothing/eye protection/face protection. P264: Wash hands and exposed skin thoroughly after handling. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310: Immediately call a POISON CENTER/doctor.
2.3	Other hazards	None known.

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances Not applicable

3.2 Mixtures Substances in preparations / mixtures

EC Classification Regulation (EC) No. 1272/2008 (CLP)

Chemical identity of the substance	%W/W	CAS No.	EC No.	REACH Registration No.	Hazard classification
Acriflavine Hydrochloride	1-2	8063-24-9	617-132-5	Not yet assigned in the supply chain	Acute Tox. 4; H302 Eye Dam. 1; H318 Aq. Chronic 2; H411

For full text of H/P Statements see section 16.

SECTION 4: FIRST AID MEASURES



4.1	Description of first aid measures	
	Self-protection of the first aider	Wear suitable protective clothing and gloves. Ensure adequate ventilation. Do not breathe vapour. Avoid all contact. Take off immediately all contaminated clothing and wash it before reuse. Do not get in eyes, on skin, or on clothing. Eyewash facilities should be stationed close to workplace where possible.
	Inhalation	IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.
	Skin Contact	IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention.
	Eye Contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Hold eye open and rinse slowly and gently with water for 15-20 minutes. Get medical attention immediately. Treatment by an ophthalmologist due to possible caustic burn of the eyes may be required.
	Ingestion	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Get medical advice/attention if you feel unwell.
4.2	Most important symptoms and effects, both acute and delayed	Causes serious eye damage.
4.3	Indication of any immediate medical attention and special treatment needed	Treat symptomatically.
	IF IN EYES:	After rinsing affected eyes must be seen by an ophthalmologist

SECTION 5: FIRE-FIGHTING MEASURES

5.1	Extinguishing media	
	Suitable Extinguishing Media	As appropriate for surrounding fire. In case of fire use water spray or fog, alcohol resistant foam, dry chemical or carbon dioxide.
	Unsuitable extinguishing Media	Direct water jet may spread the fire.
5.2	Special hazards arising from the substance or mixture	Combustion may cause toxic fumes. (Carbon monoxide, Carbon dioxide).
5.3	Advice for fire-fighters	Fight fire with normal precautions from a reasonable distance. Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Keep containers cool by spraying with water if exposed to fire. Avoid run off to waterways and sewers.

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6.1	Personal precautions, protective equipment and	Ensure adequate ventilation. Do not breathe vapour. Avoid all contact. Take off
	emergency procedures	immediately all contaminated clothing and wash it before reuse. Do not get in eyes, on skin, or on clothing. Wear appropriate personal protective equipment, avoid direct contact.
6.2	Environmental precautions	Avoid the environment. Do not allow to enter drains, sewers or watercourses.
6.3	Methods and material for containment and cleaning up	Wash away spilled liquid (remainder) with plenty of water. Wipe up remainder then remove to safe place. Wash spill site with water and detergent. Ventilate the area and wash spill site after material pick-up is complete.
6.4	Reference to other sections	See Section: 8, 13
SECTI	ON 7: HANDLING AND STORAGE	
7.1	Precautions for safe handling	Wear appropriate personal protective equipment, avoid direct contact. Do not breathe vapour. Avoid all contact. Take off immediately all contaminated clothing and wash it before reuse. Do not get in eyes, on skin, or on clothing. Wash hands and exposed skin thoroughly after handling. Good hygiene practices and housekeeping measures. Do not eat, drink or smoke during work.
7.2	Conditions for safe storage, including any incompatibilities Storage temperature	Keep container tightly closed and in a well-ventilated place. Keep away from food, drink and animal feeding stuffs. Keep out of reach of children. Keep in a cool, dry place.
	Incompatible materials	None known.
7.3	Specific end use(s)	See Section: 1.2
SECTI	ON 8: EXPOSURE CONTROLS/PERSONAL F	PROTECTION
8.1	Control parameters	
8.1.1	Occupational Exposure Limits	Not established.
8.1.2	Biological limit value	Not established.
8.1.3	PNECs and DNELs	Not established.
8.2	Exposure controls	
8.2.1	Appropriate engineering controls	Ensure adequate ventilation. Good hygiene practices and housekeeping measures. A washing facility/water for eye and skin cleaning purposes should be present.
8.2.2	Individual protection measures, such as personal protective equipment (PPE)	Use personal protective equipment as required. Do not breathe vapour. Avoid all contact. Take off immediately all contaminated clothing and wash it before reuse. Do not get in eyes, on skin, or on clothing. Ensure adequate ventilation. Wash hands and exposed skin thoroughly after handling. Do not eat, drink or smoke

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

Eye/face protection



Skin protection

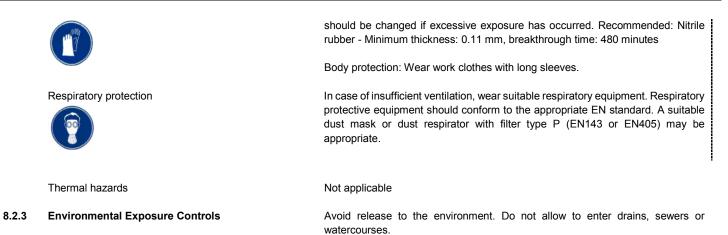
Eye Protection: Wear eye protection with side protection (EN166). Have available eyewash bottle with clean water.

Hand protection: Wear impervious gloves (EN374). Breakthrough time of the glove material: refer to the information provided by the gloves' producer. Gloves

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1	Information on basic physical and chemical properties		
	Appearance	Yellow/Orange solution	
	Odour	Not determined	
	Odour Threshold	Not determined	
	рН	1.30 Measured neat	
	Melting Point/Freezing Point	Not determined	•
	Initial boiling point and boiling range	Not determined	
	Flash Point	Not determined	
	Evaporation Rate	Not determined	
	Flammability (solid, gas)	Not determined	
	Upper/lower flammability or explosive limits	Not determined	
	Vapour pressure	Not determined	
	Vapour density (Air = 1)	Not determined	
	Relative density	Not determined	
	Solubility(ies)	Not determined	
	Partition coefficient: n-octanol/water	Not determined	
	Auto-ignition temperature	Not determined	
	Decomposition Temperature	Not determined	
	Viscosity	Not determined	
	Explosive properties	Not explosive	
	Oxidising properties	Not oxidising	
9.2	Other information	Not applicable	

SECTION 10: STABILITY AND REACTIVITY

10.1	Reactivity	Stable under normal conditions.
10.2	Chemical stability	Stable under normal conditions.
10.3	Possibility of hazardous reactions	None known.
10.4	Conditions to avoid	Elevated temperature, Avoid generation of mist. Keep out of reach of children.
10.5	Incompatible materials	None known.
10.6	Hazardous decomposition product(s)	Combustion products: Carbon monoxide, Carbon dioxide

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects (Substances in preparations / mixtures) Acute toxicity - Ingestion Mixture: Based upon the available data, the classification criteria are not met.

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		Acute Toxicity Estimate Mixture Calculation LD50 > 2000 mg/kg bw/day
	Acute toxicity - Inhalation	Mixture: Based upon the available data, the classification criteria are not met.
		Acute Toxicity Estimate Mixture Calculation LC50 > 5 mg/kg bw/day (Dust)
	Acute toxicity - Skin Contact	Mixture: Based upon the available data, the classification criteria are not met.
		Acute Toxicity Estimate Mixture Calculation LD50 > 2000 mg/kg bw/day
	Skin corrosion/irritation	Mixture: Based upon the available data, the classification criteria are not met.
	Serious eye damage/irritation	Mixture: Eye Dam. 1; H318: Causes serious eye damage.
		pH: <2
	Acriflavine Hydrochloride	Eye Dam. 1; H318: Causes serious eye damage.
		EU classification and labelling inventory (26 Notifiers)
	Respiratory or skin sensitization	Mixture: Based upon the available data, the classification criteria are not met.
	Germ cell mutagenicity	Mixture: Based upon the available data, the classification criteria are not met.
	Carcinogenicity	Mixture: Based upon the available data, the classification criteria are not met.
	Reproductive toxicity	Mixture: Based upon the available data, the classification criteria are not met.
	STOT - single exposure	Mixture: Based upon the available data, the classification criteria are not met.
	STOT - repeated exposure	Mixture: Based upon the available data, the classification criteria are not met.
	Aspiration hazard	Mixture: Based upon the available data, the classification criteria are not met.
11.2	Other information	None

No data

No data

No data

None known

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

13.2

- 12.2
 Persistence and degradability

 Acriflavine Hydrochloride
 12.3

 Bioaccumulative potential
 12.3
- Acriflavine Hydrochloride
- 12.4 Mobility in soil Acriflavine Hydrochloride
 12.5 Results of PBT and VPVB assessment
- 12.6 Other adverse effects

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Avoid release to the environment. Liquid product may not be disposed of with household waste or landfilled. Do not allow to enter into drains/waters or in the soil. Dispose of this material and its container as hazardous waste. Containers of this material may be hazardous when empty since they retain product residue. Disposal should be in accordance with local, state or national legislation.

None of the substances in this product fulfil the criteria for being regarded as a

Based upon the available data, the classification criteria are not met.

Estimated LC50 (96 hour) > 100 mg/l (Fish)

No data for the mixture as a whole.

No data for the mixture as a whole.

No data for the mixture as a whole.

PBT or vPvB substance.

SECTION 14: TRANSPORT INFORMATION

Additional Information

Not classified according to the United Nations 'Recommendations on the Transport of Dangerous Goods'.

		ADR/RID	IMDG	IATA/ICAO
14.1	UN number	Not classified.	Not classified.	Not classified.
14.2	UN proper shipping name	Not classified.	Not classified.	Not classified.
14.3	Transport hazard class(es)	Not classified.	Not classified.	Not classified.
14.4	Packing group	Not classified.	Not classified.	Not classified.
14.5	Environmental hazards	Not classified.	Not classified.	Not classified.
14.6	Special precautions for user	See Section: 2		
14.7	Transport in bulk according to Annex II of	Not applicable.	Not applicable.	Not applicable.
	MARPOL73/78 and the IBC Code			
14.8	Additional Information	None.		

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SECTION 15: REGULATORY INFORMATION

15.1	Safety, health and environmental
	regulations/legislation specific for the substance or
	mixture
15.1.1	EU regulations
	Authorisations and/or Restrictions On Use

15.1.2 National regulations15.2 Chemical Safety Assessment

Not restricted None known. A chemical safety assessment is not required under REACH.

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: V2.0 Sections indicated with the following have been revised

References: Safety Data Sheets for ingoing ingredients. EU classification and labelling inventory: Acriflavine Hydrochloride (CAS No. 8063-24-9)

EU Classification: This Safety Data Sheet was prepared in accordance with EC Regulation (EC) 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830.

Classification of the substance or mixture According to Regulation (EC) No. 1272/2008 (CLP).	Classification Procedure
Eye Dam. 1; H318	Test Result (pH <2 (Measured neat))

LEGEND

LTEL	Long Term Exposure Limit
STEL	Short Term Exposure Limit
DNEL	Derived No Effect Level
PNEC	Predicted No Effect Concentration
PBT	PBT: Persistent, Bioaccumulative and Toxic
vPvB	vPvT: very Persistent and very Toxic
OECD	Organisation for Economic Cooperation and Development
LOAEC	Lowest observed adverse effect concentration
NOAEL	No Observed Adverse Effect Level
NOAEC	no observed adverse effect concentration

Hazard classification / Classification code:

Acute Tox. 4; Acute toxicity, Category 4 Eye Dam.1; Serious eye damage/irritation, Category 1 Eye Irrit. 2; Eye Irritation, Category 2 Aquatic Chronic 2; Hazardous to the aquatic environment, Chronic , Category 2 Hazard Statement(s)

H332: Harmful if inhaled.H318: Causes serious eye damage.H319: Causes serious eye irritation.H411: Toxic to aquatic life with long lasting effects.

Training advice: Consideration should be given to the work procedures involved and the potential extent of exposure as they may determine whether a higher level of protection is required.

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