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MATERIAL SAFETY DATA SHEET

Acriflavine Hydrochloride

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1 Product identifiers :

Product name : Acriflavine Hydrochloride Product number : 0008063249 Brand : Discovery Reach No.: A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require registration or the registration is envisaged for a later Registration deadline. Cas No. : 8063-24-9

1.2 Relevant identified uses of the substance or mixture and uses advised against Identified uses : laboratory chemicals, manufacture of substances

1.3 Details of the supplier of the safety data sheet

	Company:	Discovery Fine Chemicals Ltd
		Unit 4A, Old Forge Road, Ferndown Ind. Estate,
		Wimborne, Dorset, BH21 7RR.
		United Kingdom
	Telephone:	+44 (0)1202 874517
	Fax:	+44 (0)845 0944 385
	E-mail:	discovery@discofinechem.com
1.4	Emergency telephone : +44 (0)7912 646956	

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SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 Acute toxicity, oral (Category 4) H302 Serious eye damage (category 1) H318 Long-term (chronic) aquatic hazard (Category2) H411 For the full text of the H-Statements mentioned in this section see section 16 Classification according to EU Directives 67/548/EEC or 1999/45/EC 2.2 Label elements Labelling according Regulation (EC) No 1272/2008 Pictogram

Signal word: Danger Hazard statement(s) H302 harmful if swallowed H318 Causes serious eye damage H411 Toxic to aquatic life with long lasting effects Precautionary statement(s) P264 Wash skin thoroughly after handling P273 Avoid release to the environment P280 Wear protective gloves/eye protection P301+P312 IF SWALLOWED: Call poison centre if you feel unwell P305+P351+P338 If in eyes rinse cautiously with water for several minutes. Remove contact lenses. Continue rinsing. P391 Collect spillage

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Formula: C27H28Cl4N6 Molecular Weight: 259.74 Cas No: 8063-24-9 Component **Acriflavine Hydrochloride** CAS-No.7705-08-0

Classification Acute tox.4 Aquatic chronic 2 Eye damage 1 H302, H318, H411 Concentration

<=100%

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Show this safety data sheet to the doctor in attendance.

If inhaled - If breathed in, move person into fresh air. Consult a doctor if feeling unwell.

In case of skin contact - Remove all contaminated clothing. Rinse skin with water. Consult a physician.

In case of eye contact - Flush eyes with water. Remove contact lenses. Call an ophthalmologist.

If swallowed - Make victim drink water (two glasses at most) and consult a doctor

4.2 Most important symptoms and effects, both acute and delayed – the most important known symptoms and effects are described in the labelling (see section 2.2 and/or in section 11.

4.3 Indication of any immediate medical attention and special treatment needed no data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media - Water, Foam, Carbon dioxide (CO2), Dry powder

Unsuitable extinguishing media – for this substance no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Nature of decomposition products not known.

Combustible

Development of hazardous combustion gases possible in the event of fire.

5.3 Advice for firefighters – stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance.

5.4 Further information – Prevent fire extinguishing water from contaminating surface water or the ground of water system.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area. For personal protection see section 8.

6.2 Environmental precautions - Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up – pick up and arrange disposal without creating dust. Sweep and shovel up. Keep in suitable closed containers for disposal.

6.4 Reference to other sections - For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Work under hood. Do not inhale substance/mixture.

Hygiene measures

Immediately change contaminated clothing, apply preventative skin protection. Wash hands and face after working with substance.

For precautions see section 2.2

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

Recommended storage temperature: room temperature

Storage class (TRGS 510): 11: Combustible solids.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protective equipment

Eye/face protection Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

Skin protection

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Full contact

Material: Nitrile rubber Minimum layer thickness: 0.11 mm

Break through time: 480 min

Material tested:KCL 741 Dermatril® L

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Splash contact

Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min

Material tested:KCL 741 Dermatril® L

Body Protection

protective clothing

Respiratory protection

required when dusts are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system. Recommended Filter type: Filter type P3 The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

Control of environmental exposure

Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

- 9.1 Information on basic physical and chemical properties
- a) Appearance Form: powder Colour: Dark red
- b) Odour no data available
- c) Odour Threshold no data available
- d) Melting point/range: 260° C
- e) Initial boiling point and boiling range no data available
- f) Flammability (solid, gas) no data available
- g) Upper/lower flammability or explosive limits no data available
- h) Flash point not applicable
- i) Autoignition temperature no data available
- j) Decomposition temperature no data avaialble
- k) pH no data available
- I) Viscosity viscosity, kinematic: no data available
 - viscosity dynamic: no data available
- m) Water solubility no data available
- n) Partition coefficient: no data available .
- o) Vapour pressure no data available
- p) Density no data available
- Relative density no data available
- q) Relative vapour density no data available
- r) Particle characteristics no data available
- s) Explosive properties no data available
- t) Oxidizing properties no data available
- 9.2 Other safety information no data available

10. STABILITY AND REACTIVITY

Page 3 of 6

10.1 Reactivity
In correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.
10.2 Chemical stability
The product is chemically stable under recommended storage conditions
10.3 Possibility of hazardous reactions
No data available
10.4 Conditions to avoid
no data available
10.5 Incompatible materials
oxidizing agents
10.6 Hazardous decomposition products

In the event of fire see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects Acute toxicity LD50 oral- Rat - 1,048 mg/kg Inhalation - no data available Dermal - no data available Skin corrosion/irritation - rabbit - no skin irritation Serious eye damage/eye irritation Causes serious eye irritation. Respiratory or skin sensitization No data available Germ cell mutagenicity No data available Carcinogenicity No data available **Reproductive toxicity** No data available. Specific target organ toxicity - single exposure No data available Specific target organ toxicity - repeated exposure No data available Aspiration hazard No data available

11.2 Additional Information Endocrine disrupting properties Product

Assessment

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish - LC50 - Leuciscus idus (Golden orfe) - 1 - 10 mg/l - 48.0 h

12.2 Persistence and degradability - no data available

12.3 Bio-accumulative potential - no data available

12.4 Mobility in soil - no data available

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bio accumulative and toxic (PBT),or very persistent and very bio accumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

Product

Assessment

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

Page 4 of 6

No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself according to notice directive on waste 2008/98/EC.

14. TRANSPORT INFORMATION

14.1 UN number ADR/RID 3077 IMDG 3077 IATA 3077

14.2 UN proper shipping name

ADR/RID : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Acriflavine hydrochloride) IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Acriflavine hydrochloride) IATA: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Acriflavine hydrochloride) **4.3 Transport hazard class(es)**

ADR/RID: 9 IMDG: 9 IATA: 9

14.4 Packaging group

ADR/RID: III IMDG III IATA III

14.5 Environmental hazards

ADR/RID: yes IMDG Marine Pollutant: yes IATA: yes

14.6 Special precautions for user

Further Information

Not classified as dangerous in the meaning of transport regulations

15. REGULATORY INFORMATION

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

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

National legislation Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. E2 – Environmental hazards

Other regulations

Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or stricter national regulations where applicable.

Take note of DIR 94/33/EC on the protection of young people at work

15.2 Chemical Safety Assessment -

For this product a chemical safety assessment was not carried out.

16. OTHER INFORMATION

Text of H-code(s) and R-phrase(s) mentioned in Section 2 and 3 Signal word: Danger Hazard statement(s) H302 harmful if swallowed

H318 Causes serious eye damage

H411 Toxic to aquatic life with long lasting effects

Precautionary statement(s)

P264 Wash skin thoroughly after handling

P273 Avoid release to the environment

P280 Wear protective gloves/eye protection

P301+P312 IF SWALLOWED: Call poison centre if you feel unwell

P305+P351+P338 If in eyes rinse cautiously with water for several minutes. Remove contact lenses. Continue rinsing.

P391 Collect spillage

Further information

WARRANTY

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product.

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APPENDIX

ABBREVIATIONS FULL TEXT

ADN European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways ADR European Agreement concerning the International Carriage of Dangerous Goods by Road ALARP As low as is reasonably practicable CAS Chemical Abstracts Service CLP Classification, Labelling and Packaging Regulations COSHH Control of Substances Hazardous to Health EC Number European Community Number EC50 Effective Concentration 50% ECHA European Chemicals Agency ELINCS European List of Notified Chemical Substances EINECS European Inventory of Existing Commercial Chemical Substances GHS Globally Harmonised System HSE Health & Safety Executive UK IATA International Air Transport Association IM Intramuscular IMDG The International Maritime Dangerous Goods Code **IP** Intraperitoneal IV Intravascular LD50 Lethal Dose 50% LOEC Lowest Observable Effective Concentration LTEL Long Term Exposure Limit NOEC No Observable Effective Concentration OECD Organisation for Economic Cooperations and Development OSHA European Agency for Safety and Health at work PBT Persistent Bioaccumulative and Toxic substance PPE Personal Protective Equipment REACH Registration, Evaluation, Authorisation and Restriction of Chemicals RID Regulations Concerning the International Carriage of Dangerous Goods by Rail SC Subcutaneous SDS Safety Data Sheet SIEF Substance Information Exchange Forum STEL Short Term Exposure Limit STOT (RE) Specific Target Organ Toxicity - repeated exposure STOT (SE) Specific Target Organ Toxicity - single exposure SVHC Substance of Very High Concern VOC Volatile Organic Compounds vPvB Very Persistent and Very Bioaccumulative WEL Workplace Exposure Limits