ACRIFLAVIN FOR BIOCHEMISTRY MSDS

CAS No: 8063-24-9 MSDS



MATERIAL SAFETY DATA SHEET (MSDS)

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

1.1. Product identifier

Product form : Substance

Trade name : Acriflavine hydrochloride

CAS No : 8063-24-9
Product code : B-00055

Chemical structure :

H₂N NH₂ NH₂ 2HCl

Synonyms : 3,6-Diamino-10-methylacridinium chloride hydrochloride / Euflavine

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 : Laboratory chemicals, Manufacture of substances

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Bio-Chem Chemicals

5455, Nicholson Road Science Market, Ambala Cantt. 133001 Haryana (India)

+91-82952 41953

info@biofinechemical.com - www.biofinechemical.com

1.4. Emergency telephone number

Emergency number : +91 99921 51495 (10.00am - 06.30pm) (Office Hours)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Serious eye damage/eye H318

irritation, Category 1

Acute toxicity (oral), H302

Category 4

Hazardous to the aquatic H411

environment — Chronic Hazard, Category 2

Full text of classification categories and H statements : see section 16

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Classification according to Directive 67/548/EEC or 1999/45/EC

Xn; R22 Xi; R41 N; R51/53

Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP)





GHS05

05 GHS07

GHS09

Signal word (CLP) : Danger

Hazard statements (CLP) : H302 - Harmful if swallowed

H318 - Causes serious eye damage

H411 - Toxic to aquatic life with long lasting effects

Precautionary statements (CLP) : P273 - Avoid release to the environment

P280 - Wear protective gloves, protective clothing, eye protection, face protection P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Name : ACRIFLAVIN FOR BIOCHEMISTRY

CAS No : 8063-24-9

Full text of R- and H-phrases: see section 16

3.2. Mixture

Not applicable

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SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Assure fresh air breathing. If breathing is difficult, remove victim to fresh air and keep

at rest in a position comfortable for breathing.

First-aid measures after skin contact : Wash with plenty of soap and water. Get immediate medical advice/attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing. Immediately call a POISON CENTER or

doctor/physician.

First-aid measures after ingestion : Rinse mouth, Call a POISON CENTER or doctor/physician if you feel unwell.

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

Symptoms/injuries after eye contact : Causes serious eye damage.

Symptoms/injuries after ingestion : Swallowing a small quantity of this material will result in serious health hazard.

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 : Carbon dioxide. Dry powder. Foam. Water spray. Unsuitable extinguishing media : Do not use extinguishing media containing water.

5.2. Special hazards arising from the substance or mixture

No additional information available

5.3. Advice for firefighters

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory

protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Use personal protective equipment as required.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : On land, sweep or shovel into suitable containers. Soak up spills with inert solids,

such as clay or diatomaceous earth as soon as possible.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with skin and eyes. Avoid dust formation. Do not breathe vapours.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands and other exposed

areas with mild soap and water before eating, drinking or smoking and when leaving

work.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep container tightly closed.

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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

Hand protection : Protective gloves

Eye protection : Chemical goggles or safety glasses
Skin and body protection : Wear suitable protective clothing
Respiratory protection : Wear respiratory protection

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid

Molecular mass : 259.74 g/mol Colour : Reddish brown.

Odour : No data available

Odour threshold : No data available

pH : 2

Relative evaporation rate (butylacetate=1) : No data available

Melting point : 260 °C

Freezing point : No data available

Boiling point : No data available

Flash point : No data available

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Flammability (solid, gas) : No data available

Vapour pressure : No data available

Relative vapour density at 20 °C : No data available

Relative density : No data available

Solubility : No data available

Log Pow : No data available

Viscosity, kinematic : No data available

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: No data available Viscosity, dynamic

: No data available Explosive properties

Oxidising properties : No data available

Explosive limits : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable under normal conditions.

Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Open flame, Heat, Sparks, Overheating,

10.5. Incompatible materials

Oxidizing agent. Strong bases.

10.6. Hazardous decomposition products

No additional information available

SECTION 11: Toxicological information

11,1. Information on toxicological effects

Acute toxicity : Oral: Harmful if swallowed.

: Not classified Skin corrosion/irritation

pH: 2

Serious eye damage/irritation : Causes serious eye damage.

pH: 2

Respiratory or skin sensitisation : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified

Reproductive toxicity : Not classified : Not classified

Specific target organ toxicity (single

exposure)

Specific target organ toxicity (repeated

exposure)

: Not classified

Aspiration hazard : Not classified

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Potential adverse human health effects

and symptoms

: Harmful if swallowed.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - water : Toxic to aquatic life with long lasting effects.

12.2. Persistence and degradability

Acriflavine hydrochloride (8063-24-9)	
Persistence and degradability	May cause long-term adverse effects in the environment.

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal

recommendations

: Dispose of contents/container to ...

SECTION 14: Transport information

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

14.1. UN number

 UN-No. (ADR)
 : 3077

 UN-No. (IMDG)
 : 3077

 UN-No.(IATA)
 : 3077

 UN-No.(ADN)
 : 3077

 UN-No. (RID)
 : 3077

14.2. UN proper shipping name

Proper Shipping Name (ADR) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

Proper Shipping Name (IMDG) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

Proper Shipping Name (IATA) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

Proper Shipping Name (ADN) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

Proper Shipping Name (RID) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

Transport document description (ADR) : UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III,

(E)

Safety Data Sheet

Transport document description (IMDG) : UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III, MARINE POLLUTANT

MARINE POLLUTAN

Transport document description (IATA) : UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III

Transport document description (ADN) : UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III

Transport document description (RID) : UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III

14.3. Transport hazard class(es) ADR

Transport hazard class(es) (ADR) : 9
Danger labels (ADR) : 9



IMDG

Transport hazard class(es) (IMDG) : 9
Danger labels (IMDG) : 9



IATA

Transport hazard class(es) (IATA) : 9
Hazard labels (IATA) : 9



ADN

Transport hazard class(es) (ADN) : 9
Danger labels (ADN) : 9



RID

Transport hazard class(es) (RID) : 9
Danger labels (RID) : 9



Safety Data Sheet

14.4. Packing group

Packing group (ADR) : 111 Packing group (IMDG) : 111 Packing group (IATA) : 111 Packing group (ADN) · III Packing group (RID) : 111

14.5. **Environmental hazards**

Dangerous for the environment : Yes Marine pollutant : Yes

Other information : No supplementary information available

14.6. Special precautions for user

- Overland transport

Classification code (ADR) : M7

Special provision (ADR) : 274, 335, 601, 375

Limited quantities (ADR) : 5kg Excepted quantities (ADR) : E1

Packing instructions (ADR) : P002, IBC08, LP02, R001

Special packing provisions (ADR) : PP12, B3 Mixed packing provisions (ADR) : MP10

Portable tank and bulk container : T1, BK1, BK2

instructions (ADR)

Portable tank and bulk container special : TP33

provisions (ADR)

Tank code (ADR) : SGAV, LGBV

: AT Vehicle for tank carriage Transport category (ADR) : 3 Special provisions for carriage - Packages : V13

(ADR)

Special provisions for carriage - Bulk : VC1, VC2

(ADR)

Special provisions for carriage - Loading. : CV13

unloading and handling (ADR)

Hazard identification number (Kemler No.)

Orange plates

Tunnel restriction code (ADR) : E EAC code : 2Z

- Transport by sea

: 274, 335, 966, 967, 969 Special provision (IMDG)

Limited quantities (IMDG) : 5 kg : E1 Excepted quantities (IMDG)

: P002, LP02 Packing instructions (IMDG) Packing provisions (IMDG) : PP12 IBC packing instructions (IMDG) : IBC08 IBC special provisions (IMDG) : B3

Tank instructions (IMDG) : T1, BK1, BK2, BK3

Tank special provisions (IMDG) : TP33 : F-A EmS-No. (Fire) : S-F EmS-No. (Spillage)

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: A Stowage category (IMDG) Stowage and handling (IMDG) : SW23 MFAG-No : 171

- Air transport

PCA Excepted quantities (IATA) : E1 PCA Limited quantities (IATA) : Y956 PCA limited quantity max net quantity : 30kaG

(IATA)

PCA packing instructions (IATA) : 956 PCA max net quantity (IATA) : 400kg CAO packing instructions (IATA) : 956 CAO max net quantity (IATA) : 400kg

Special provision (IATA) : A97, A158, A179, A197

ERG code (IATA) : 9L

- Inland waterway transport

Classification code (ADN) : M7

Special provisions (ADN) : 274, 335, 375, 601

Limited quantities (ADN) : 5 kg Excepted quantities (ADN) : E1 : T* B** Carriage permitted (ADN) Equipment required (ADN) : PP, A Number of blue cones/lights (ADN) : 0

- Rail transport

Classification code (RID) : M7

Special provision (RID) : 274, 335, 375, 601

Limited quantities (RID) : 5kg Excepted quantities (RID) : E1

: P002, IBC08, LP02, R001 Packing instructions (RID)

Special packing provisions (RID) : PP12, B3 Mixed packing provisions (RID) : MP10

Portable tank and bulk container

: T1, BK1, BK2

instructions (RID)

Portable tank and bulk container special

provisions (RID)

: TP33

Tank codes for RID tanks (RID) : SGAV, LGBV

Transport category (RID) Special provisions for carriage - Packages : W13

(RID)

Special provisions for carriage - Bulk : VC1, VC2

(RID)

Special provisions for carriage - Loading

: CW13, CW31

and unloading (RID)

Colis express (express parcels) (RID) : CE11 Hazard identification number (RID) : 90

14.7. Transport in bulk according to Annex II of MARPOL 73/78 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

No REACH Annex XVII restrictions

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Acriflavine hydrochloride is not on the REACH Candidate List Acriflavine hydrochloride is not on the REACH Annex XIV List

15.1.2. National regulations

Germany

Immission Control Act - 12.BlmSchV

12th Ordinance Implementing the Federal : Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)

Denmark

Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of R-, H- and EUH-phrases:

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Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1	
H302	Harmful if swallowed	
H318	Causes serious eye damage	
H411	Toxic to aquatic life with long lasting effects	
R22	Harmful if swallowed	
R41	Risk of serious damage to eyes	
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment	
N	Dangerous for the environment	
Xi	Irritant	
Xn	Harmful	

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