

ACRIFLAVINE HYDROCHLORIDE

SECTION 1: PRODUCT IDENTIFICATION

Product Name: ACRIFLAVINE HYDROCHLORIDE
Product Code: 646
CAS#: 8063-24-9
Synonym: 3,6-Diamino-10-methylacridinium chloride hydrochloride Euflavine
Chemical Name: Not Available
Chemical Formula: C₁₄H₁₄N₃Cl
Formula Weight: 259.14

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Composition:
Name: Not available
Toxicological Data on Ingredients: Not available

SECTION 3: HAZARDS IDENTIFICATION

Classification of the substance or mixture
Potential Acute Health Effects: cute toxicity, (Category 4) H302: Harmful if swallowed.
Serious eye damage, (Category 1) H318: Causes serious eye damage.
H302 : Harmful if swallowed.
H318 : Causes serious eye damage
H411 : Toxic to aquatic life with long lasting effects.
Potential Chronic Health Effects:
Carcinogenic Effects: Not Available
Mutagenic Effects: Not Available
Teratogenic Effects: Not Available
Developmental Toxicity: Not Available

SECTION 4: FIRST AID MEASURES

Eye Contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.
Skin Contact: Wash off immediately with soap and plenty of water. Cover the irritated skin with emollient. Immediate medical attention is required.
Serious Skin Contact: Not available.
Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Serious Inhalation: Not Available.
Ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.
Serious Ingestion: Not available.

SECTION 5: FIRE FIGHTING MEASURES

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



Special hazards arising from the substance or mixture : Nature of decomposition products not known.

Combustible : Development of hazardous combustion gases or vapours possible in the event of fire.

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

Advice for firefighters : In the event of fire, wear self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

Environmental precautions

Do not let product enter drains.

Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling: Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

Advice on safe handling: Work under hood. Do not inhale substance/mixture.

Storage conditions: Tightly closed. Dry. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons. Light sensitive. Store under inert gas.

Storage class: Not available

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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

Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product.

Respiratory protection: Respiratory protection is not required. If protection from nuisance levels of dusts are desired, use type N95 or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state and appearance	:	Faint Brown to Brown orange to dark orange and red to very dark red
Odor	:	Not available
Molecular Weight	:	Not available
PH	:	Not available
Boiling Point	:	Not available
Melting Point	:	Not available
Critical Temperature	:	Not available
Specific Gravity	:	Not available
Vapor Pressure	:	Not applicable
Vapor Density	:	Not available
Volatility	:	Not available
Odor Threshold	:	Not available
Water/Oil Dist. Coeff.	:	Not available
Ionicity (in Water)	:	Not available



Dispersion Properties : Not available
Solubility : Not available

SECTION 10: STABILITY AND REACTIVITY DATA

Stability: The product is chemically stable under standard ambient conditions (room temperature).

Instability Temperature: Not available

Conditions of Instability: Strong heating.

Incompatibility with various substances: Strong oxidizing agents.

Special Remarks on Corrosivity: Non corrosive.

Special Remarks on Reactivity: Not available

Polymerization: Will Not occur.

Hazardous decomposition products: In the event of fire.

SECTION 11: TOXICOLOGICAL INFORMATION.

Routes of Entry: Inhalation, Ingestion

Toxicity to Animals:

LD₅₀: Oral Rat at - 1.048 mg/kg

LC₅₀: Leuciscus idus (Golden orfe) - 1 - 10 mg/l - 48,0 h

Chronic Effects on Humans: Not available

Other Toxic Effects on Humans: Not available

Special Remarks on Toxicity to Animals: Not available

Special Remarks on other Toxic Effects on Humans:

May cause genetic defects.

Test Type: Ames test

Test system: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Test Type: Chromosome aberration test in vitro

Test system: Chinese hamster lung cells

Metabolic activation: without metabolic activation

Method: OECD Test Guideline 473

Result: positive

Test Type: In vitro mammalian cell gene mutation test

Test system: Chinese hamster ovary cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

Potential Health Effects: Suspected of damaging fertility.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:

Toxicity to fish LC50 - Leuciscus idus (Golden orfe) - 1 - 10 mg/l - 48,0 h

Toxicity to daphnia and other aquatic invertebrates flow-through test EC50 - Daphnia magna (Water flea) - 98 mg/l - 48h

Toxicity to algae static test NOEC - Pseudokirchneriella subcapitata - 56 mg/l - 72 h

Toxicity to bacteria EC50 - Photobacterium phosphoreum - 13.500 mg/l

Remarks: (IUCLID)



BOD and COD: Biodegradability aerobic - Exposure time 28 d
Result: 100 % - Readily biodegradable.

Products of Biodegradation: Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: Not Available.

Special Remarks on the Products of Biodegradation: Not Available

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal:

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

SECTION 14: TRANSPORT INFORMATION

UN number:

ADR/RID: 3077

IMDG: 3077

IATA: 3077

UN proper shipping name

ADR/RID: Acrylamide, solid

IMDG: Acrylamide, solid

IATA: Acrylamide, solid

Transport hazard class(es):

ADR/RID: 9

IMDG: 9

IATA: 9

Packaging group:

ADR/RID: III

IMDG: III

IATA: III

Environmental hazards:

ADR/RID: Yes

IMDG Marine pollutant: Yes

IATA: Yes

SECTION 15: REGULATORY INFORMATION

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

This material safety data sheet 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

dangerous substances, preparations and articles

Chemical Safety Assessment: Not available.

SECTION 16: OTHER INFORMATION

References: Full text of H AND R-Statements.

H302 Harmful if swallowed.

H318 Causes serious eye damage.

H411 Toxic to aquatic life with long lasting effects. Other Special Considerations: Not available

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