

BIO BASIC INC.

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MATERIAL SAFETY DATA SHEET

REQUIRED UNDER SAFETY AND HEALTH REGULATION FOR SHIP REPAIRING

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Dec. 1st, 2009

SECTION 1. ----- CHEMICAL IDENTIFICATION -----

Product name : Acriflavine hydrochloride
Product Number : AB4433

SECTION 2. ----- COMPOSITION/INFORMATION ON INGREDIENTS -----

Synonyms : 3,6-Diamino-10-methylacridinium chloride hydrochloride
Euflavine
Molecular Weight : 259.7 g/mol
CAS-No. EC-No. Index-No. Concentration
Acriflavine hydrochloride
8063-24-9 - - -

SECTION 3. ----- HAZARDS IDENTIFICATION -----

WHMIS Classification
D2B Toxic Material Causing Other Toxic Effects Moderate eye irritant
HMIS Classification
Health Hazard: 2
Flammability: 0
Physical hazards: 0
Potential Health Effects
Inhalation May be harmful if inhaled. Causes respiratory tract irritation.
Skin May be harmful if absorbed through skin. Causes skin irritation.
Eyes Causes eye irritation.
Ingestion Harmful if swallowed.

SECTION 4. ----- FIRST-AID MEASURES -----

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
If inhaled
If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician.
In case of skin contact
Wash off with soap and plenty of water. Consult a physician.
In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

SECTION 5. ----- FIRE FIGHTING MEASURES -----

Flammable properties
Flash point no data available

Ignition temperature no data available
Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special protective equipment for fire-fighters
Wear self contained breathing apparatus for fire fighting if necessary.

SECTION 6. - - - - - ACCIDENTAL RELEASE MEASURES - - - - -

Personal precautions
Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.
Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
Methods for cleaning up Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

SECTION 7. - - - - - HANDLING AND STORAGE - - - - -

Handling
Avoid formation of dust and aerosols.
Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.
Storage
Keep container tightly closed in a dry and well-ventilated place.

SECTION 8. - - - - - EXPOSURE CONTROLS/PERSONAL PROTECTION - - - - -

Contains no substances with occupational exposure limit values.
Personal protective equipment
Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1
(EN 143) respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Hand protection
Handle with gloves.
Eye protection
Safety glasses
Skin and body protection
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Hygiene measures
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

SECTION 9. - - - - - PHYSICAL AND CHEMICAL PROPERTIES - - - - -

Appearance
Form solid
Colour dark red
Safety data
pH no data available
Melting point 260 °C (500 °F)
Boiling point no data available
Flash point no data available
Ignition temperature no data available
Lower explosion limit no data available
Upper explosion limit no data available

Water solubility no data available

SECTION 10. -----STABILITY AND REACTIVITY -----

Storage stability

Stable under recommended storage conditions.

Materials to avoid

Oxidizing agents

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Nature of decomposition products not known.

SECTION 11. -----TOXICOLOGICAL INFORMATION -----

LD50 Oral - rat - 1,048 mg/kg

Irritation and corrosion

Skin - rabbit - No skin irritation

Eyes - rabbit - Severe eye irritation

Sensitisation

no data available

Chronic exposure

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Signs and Symptoms of Exposure

Cardiovascular effects., Central nervous system depression, Respiratory disorders

Potential Health Effects

Inhalation May be harmful if inhaled. Causes respiratory tract irritation.

Skin May be harmful if absorbed through skin. Causes skin irritation.

Eyes Causes eye irritation.

Ingestion Harmful if swallowed.

SECTION 12. -----ECOLOGICAL INFORMATION -----

Elimination information (persistence and degradability)

Biodegradability

Ecotoxicity effects

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

Further information on ecology

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

no data available

SECTION 13. -----DISPOSAL CONSIDERATIONS -----

Product

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of as unused product.

SECTION 14. -----TRANSPORT INFORMATION -----

DOT (US)

Not dangerous goods

IMDG

UN-Number: 3077 Class: 9 Packing group: III EMS-No: F-A, S-F

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Acriflavine hydrochloride)

Marine pollutant: No

IATA

UN-Number: 3077 Class: 9 Packing group: III

Proper shipping name: Environmentally hazardous substance, solid n.o.s. (Acriflavine hydrochloride)

SECTION 15. ----- REGULATORY INFORMATION -----

DSL Status

This product contains the following components that are not on the Canadian DSL nor NDSL lists.

Acriflavine hydrochloride

CAS-No.

8063-24-9

WHMIS Classification

D2B Toxic Material Causing Other Toxic Effects Moderate eye irritant.

SECTION 16. ----- OTHER INFORMATION -----

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 with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. BBI shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.