

TEL: 925 / 875-9660 FAX: 925 / 875-9662 www.dfcontrolsystems.com e-mail: dfcontrl@inreach.com

SAFETY DATA SHEET

GLOCOUNT® TABLETS

1. IDENTIFICATION OF SUBSTANCE/ PREPARATION

Product Name

GLOCOUNT® TABLETS

Molecular Formula

C21H20N3Br

Alternative Names

3,8-Diamino-5-ethyl-6-phenylphenanthridinium bromide (tablets), Ethidium

bromide (tablets), Prothidium bromide (tablets).

CAS No.

1239-45-8 (homidium bromide)

EINECS No.

2149846 (homidium bromide)

Uses Company Identification

White blood cell counting in milk samples

D & F Control Systems, Inc.

6773 Sierra Court, Suite E

Dublin, California 94568 U.S.A.

Emergency Telephone

303-739-1110

2. COMPOSITION/ INFORMATION ON INGREDIENTS

Component

Homidium Bromide

Inert tablet excipient/lubricant

Hazard Class

Very Toxic (T+)

Not applicable

Risk Phrase(s)

R22, R26, R38, R40.

mg/tablet

250

Not applicable trace

3. HAZARDS

Health

The dust is very toxic by inhalation. Studies indicate that homidium bromide is mutagenic in a number of test systems, and must therefore be associated with

Fire and Explosion

possible heritable genetic damage in man. The tablets are harmful if swallowed. Stable at normal temperature. Not a flammable hazard but will burn if exposed to

Environment

No relevant data available.

4. FIRST-AID

If Swallowed

Eyes Skin

Immediately irrigate with water for at least 10 minutes. Obtain medical attention. Immediately drench with water. Remove contaminated clothing. Swab affected

skin with water or soap and water. Obtain medical attention.

Wash out mouth thoroughly with water, give sips of water to drink. Obtain

If Inhaled Remove to fresh air. Keep warm and at rest. Obtain urgent medical attention.

5. FIRE FIGHTING

The tablets will burn in air, producing toxic gases. Self-contained breathing apparatus should be provided for firefighters in all circumstances. Water spray, foam, carbon dioxide and dry chemical powder are suitable extinguishing agents.

6. ACCIDENTAL RELEASE

Personal Precautions Wear an approved particulate respirator, PVC or rubber gloves and chemical

safety goggles.

Environmental Precautions

Prevent entry into watercourses.

Methods For Cleaning Up Immediately sweep up or vacuum clean (avoid creating a dust cloud) and remove

the spillage to a polythene lined container for subsequent correct disposal. Clean the spillage site with detergent and water and retain washings for correct

disposal.

7. HANDLING AND STORAGE

Handling Ensure good general ventilation in areas where used. Use mechanical local

exhaust ventilation wherever possible. Avoid inhalation. Avoid contact with skin, eyes and clothing. Contact with the tablets stains the skin purple. Where there is a risk of personal contact, protective clothing including approved

respiratory protection, PVC or rubber gloves, and chemical safety goggles, must

be worn. It is advisable to wash gloves before removing from the hands.

Storage Store at ambient temperatures in sealed containers away from:

(i) oxidizing agents; (ii) heat and sources of ignition; (iii) food drink and animal

feedstuff.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Occupational Exposure Limits No figures published. An in-house workplace exposure level of as near zero as

possible, but in any case not to exceed 0.001 mg/m³, has been established.

Respiratory Protection Minimum is approved particulate respirator, but air fed equipment preferred. Hand Protection PVC or rubber gloves.

Eye Protection Chemical safety goggles. Skin Protection Overall or disposable coverall.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Dark purple tablets.

For Homidium Bromide

10bO Faint, characteristic.

Molecular Weight 394.2 Melting Point (°C) 238-250°C.

рΗ 4 to 7 (2% w/v solution)

Solubility in Water

Solubility in Other Solvents Slightly soluble in ethanol, partially soluble in chloroform.

10. STABILITY AND REACTIVITY

Stability/Reactivity Stable at normal temperature. Conditions to Avoid Heat and sources of ignition.

Materials to Avoid Oxidizing materials.

Hazardous Decomposition

Products Oxides of nitrogen and hydrogen bromide.

11. TOXICOLOGICAL INFORMATION

For homidium bromide

LD₅₀ oral rat 1503 mg/kg (males), 2177 mg/kg (females)

LC₅₀ inhalation rat 0.0118 to 0.134 mg/liter.

LD₅₀ intravenous rat 16 mg/kg LD₅₀ oral mouse, 1000 mg/kg LD₅₀ intravenous mouse 12 mg/kg LD₅₀ intravenous monkey 13 mg/kg

Homidium bromide is genotoxic in a number of test systems, including Ames, cell mutation, cell transformation and cytogenetics assays.

12. ECOLOGICAL INFORMATION

No relevant data available.

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with current legislation, preferably using high temperature incineration. Contaminated empty packaging materials should be treated in a similar manner.

14. TRANSPORT INFORMATION

UN Number: 2811 Toxic solid, organic, nos. / UN Hazard Class: 6.1 / UN Packing Group: I (based on inhalation study)

15. REGULATORY INFORMATION

Classification of risk	Very toxic (T+)	
Risk phrases	R40	Possible risk of irreversible effects.
	R26	Very toxic by inhalation.
	R22	Harmful if swallowed.
	R38	Irritating to skin.
Safety phrases	S2	Keep out of reach of children.
	S24/25	Avoid contact with skin & eyes.
	S26	In cases of contact with eyes, rinse immediately with plenty
	000	of water & seek medical advice.
	S28	After contact with skin, wash immediately with plenty of water.
	S45	In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).
	S53	Avoid exposure - obtain special instructions before use.

16. OTHER INFORMATION

None

DFC95069

Revision : Seven

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The information in this Safety Sheet is believed to be accurate but is given without warranty.

D&F Control Systems, Inc., Dublin, California, U.S.A., Tel: (925) 875-9660 Fax: (925) 875-9662

Emergency Tel: (303) 739-1110