

KromaTiD

SAFETY DATA SHEET For dGH Media Additive		
Effective Date 06 June 2022		Version No: 2.00 Supersedes: Version No: 1.0
1. IDENTIFICATION		
Product identifier: dGH Media Additive Synonyms: None Identified use: Solution used to culture cells Company undertaking name & address: KromaTiD, Inc., 1880 Industrial Circle, Longmont, CO 80501 General information telephone: 1 (303) 525-2375 Competent person e-mail address: info@kromatid.com Emergency telephone number: Within the USA and Canada: CHEMTREC: 1 (800) 424-9300. Outside the US and Canada (703) 527-3887, Collect calls will be accepted.		
2. HAZARDS IDENTIFICATION		
GHS Classification		
Health	Environmental	Physical
Acute Toxicity (oral): Not classified Acute Toxicity (dermal): Not classified Acute Toxicity (inhalation): Not classified Skin Corrosion/Irritation: Not classified Serious Eye Damage/Irritation: Not classified Respiratory/Skin Sensitization: Not classified Germ cell mutagenicity: Not tested Carcinogenicity: Not tested Reproductive/developmental: Not classified Lactation hazard: Unknown STOT (single exposure): Not classified STOT (repeated): Not classified Aspiration hazard: Unknown	Not classified	Not classified
GHS Label Elements		
Symbols: No symbols required		
Signal Word: No signal word required		
<u>Hazard Statements</u> No hazard statements required.	<u>Precautionary Statements</u> No precautionary statements required.	

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance : 5-bromo-deoxyuridine
CAS Number: 59-14-3
EINECS : 200-415-9

Substance: 5-bromo-deoxycytidine
CAS Number: 1022-79-3
EINECS: 213-824-2

Substance: RPMI 1640 cell culture media
CAS Number: Mixture
EINECS: Not available

4. FIRST AID MEASURES

Skin contact: In case of skin contact, removed contaminated clothing, flush area with large amounts of water for 15 minutes. Use soap if available. Seek medical attention immediately if skin irritation or rash develops.

Eye contact: In case of eye contact, flush with copious amounts of water for at least 15 minutes. Seek medical attention immediately if irritation develops.

Ingestion: In case of unintended ingestion, seek medical attention immediately. Do not induce vomiting unless directed by medical personnel. Never give anything by mouth to an unconscious person.

Inhalation: In case of inhalation, remove to fresh air. If not breathing, provide artificial respiration. If breathing is difficult, administer oxygen. Seek medical attention immediately.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media: Water spray jet, dry powder, foam, carbon dioxide.

Unsuitable extinguishing media: None known.

Special hazards in fire: By products of combustion have not been determined.

Advice for fire fighters: Wear self-contained breathing apparatus and personal protective equipment to prevent inhalation and contact with skins or eyes.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures: Report emergency situations immediately. Non-essential personnel should be evacuated from the immediate area. Contain the source of the spill if it is safe to do so. Personnel involved in the clean-up of spills should wear the appropriate respiratory protection, gloves, eye protection, and protective coveralls. Observe all applicable regulations when disposing of this material.

Environmental precautions: Avoid discharging wash water and contaminated material to floor drains or to the sewer.

Methods for containment and cleaning up: Spills should be cleaned up in a manner that minimizes exposure to personnel. Ventilate the area and clean the spill area thoroughly. Collect wash water with absorbent material and transfer all waste to a labeled container for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling: Where exposure to the liquid may occur appropriate personal protective equipment, including approved respiratory protection, may be required. Use good personal hygiene – wash hands and exposed skin thoroughly with soap and water after contact with substance.

Conditions for safe storage: When not in use, store in a tightly sealed container at -20° C.

Specific end uses: Solution used to culture cells.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Occupational Exposure Values

Component Name: 5-bromo-deoxyuridine

WEL – 8-hour TWA: Not established

WEL – STEL: Not established

PEL – 8-hour TWA: Not established

PEL: - STEL: Not established

Component Name: 5-bromo-deoxycytidine

WEL – 8-hour TWA: Not established

WEL – STEL: Not established

PEL – 8-hour TWA: Not established

PEL: - STEL: Not established

Component Name: RPMI 1640 cell culture media

WEL – 8-hour TWA: Not established

WEL – STEL: Not established

PEL – 8-hour TWA: Not established

PEL: - STEL: Not established

Engineering controls: Effective engineering controls are the primary means of controlling occupational exposure. Respiratory protection should not be used as a substitute for engineering controls.

Personal protective equipment: Eye protection, compatible chemical-resistant gloves, and laboratory coat should be worn. In a manufacturing setting, more elaborate forms of personal protective equipment may be required.

Eye/face protection: Safety glasses should be worn.

Hand protection: Compatible, chemical-resistant gloves should be worn.

Environmental exposure controls: Store in tightly sealed containers to prevent releases to the environment.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Pinkish to red solution

Odor: Odorless.

Odor threshold: Not known.

pH: Not available

Melting point/freezing point: Not available

Initial boiling point/boiling range: Not available

Flashpoint: Not applicable

Evaporation rate: Not applicable

Flammability (solid/gas): Not applicable

Lower flammability limit: Not available
Upper flammability limit: Not available
Vapor pressure: Not available
Vapor density: Not available
Relative density: Not available
Solubility: Not available
Octanol/water partition coefficient: Not available
Autoignition temperature: Not available
Decomposition temperature: Not available
Viscosity: Not available
Explosive properties: None identified
Oxidizing properties: None identified

10. STABILITY AND REACTIVITY

Reactivity: None identified
Chemical stability: None identified
Possibility of hazardous reactions: None identified
Conditions to avoid: None identified
Incompatible materials: None identified
Hazardous decomposition products: Not available.

11. TOXICOLOGICAL INFORMATION

Pharmacology: No data

Acute toxicity (rat, oral):

5-bromo-deoxyuridine: LD₅₀ (rat, oral) = 8400 mg/kg

5-bromo-deoxycytidine: LD₅₀ (rat, oral) = Not available

RPMI 1640: LD₅₀ (rat, oral) = Not available

Irritation: No data

Corrosivity: No data

Sensitization: No data

Repeat dose toxicity: No data

Carcinogenicity: No data.

Mutagenicity: No data.

Reproductive effects: No data

Likely routes of exposure: Ingestion, inhalation, dermal contact

Symptoms of over-exposure: No data.

Interactive effects: No data.

Other adverse effects: None known.

12. ECOLOGICAL INFORMATION

Toxicity: Not available

Persistence and degradability: Not available

Bioaccumulative potential: Not available

Mobility in soil: Not available

Results of PBT and vPvB assessments: Not available

Other adverse effects: Not available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods: This product must be disposed of in accordance with all local, state, and federal regulations.

14. TRANSPORT INFORMATION

UN Number: Not regulated

Proper Shipping Name: Not regulated

Hazard Class: Not applicable

Packing Group: Not applicable

Environmentally Hazardous: Not available

Special Precautions: None identified

15. REGULATORY INFORMATION

U.S. Federal Hazardous Waste Regulations: Not listed

Toxic Substance Control Act (TSCA): The following ingredients in this product are listed on the TSCA inventory: 5-bromo-deoxycytidine, 5-bromodeoxyuridine.

U.S. Clean Water Act: None of the ingredients contained in this product are listed under the Clean Water Act.

U.S. Clean Air Act: None of the ingredients contained in this product are listed under the Clean Air Act.

Superfund Amendments and Reauthorization Act (SARA) Title III Information: None of the ingredients contained in this product are listed under SARA Title III.

State Regulations

California Proposition 65: This product does not contain any ingredients known to the State of California to cause cancer, developmental, or reproductive harm.

Canadian Regulations

Canadian Environmental Protection Act: The following ingredients in this product are listed on the Canadian Domestic Substance List: 5-bromodeoxyuridine.

EU Classification

European Inventory of Existing Chemicals (EINECS): The following ingredients in this product are included on the European Inventory of Existing Commercial Chemical Substances: 5-bromodeoxyuridine.

16. OTHER INFORMATION

National Fire Protection Association (NFPA) Warnings

Health: 1, Flammability: 0, Reactivity: 0, Other: Not available

Recommendations/restrictions: For research and development purposes only used by competently trained personnel.

Abbreviations and Acronyms

GHS: Global Harmonization System
OSHA: Occupational Safety and Health Administration
PBT: Persistent, Bioaccumulative, and Toxic
PEL: Permissible Exposure Limit
STEL: Short-term Exposure Limit
STOT: Specific target organ toxicity
UN: United Nations
vPvT: Very Persistent and Very Bioaccumulative
WEL: Workplace Exposure Limit

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