SAFETY DATA SHEET
For

Demecolcine solution
(Synonyms: Colcemid™ solution, N-Deacetyl-N-methylcolchicine solution)

Effective Date 30 January 2023 Version No: 1.00

1. IDENTIFICATION

1.1 **Product identifier:** Demecolcine solution 10ug/mL; COL-001, COL-002, COL-003

Synonyms: Synonyms: Colcemid™ solution, N-Deacetyl-N-methylcolchicine solution Alkaloid h 3, from colchicum antumnale* benzo(a)heptalen-9(5h)-one,6,7-kihydro-1,2-3,1-=tetramethoxy-7-(methylamino)-, (s)* ciba 12669a* colchamine* colchicine, 7 deacetyl-n-methylcolchicine* n-deacetyl-n-methycolchicine* demecolcine* n desacetylmethycolchicine* n-desacetyl-n-methylcolchicine* desmecolcine* (-)-demecolcine* 6,7-dihydro-1,2,3,10-tetremethoxy-7- (methylamino)-benzo(alpha)heptalen-9(5h) one* kolchamin* kolchicin (czech)* n-methyl-n-deacetylcolchicine*n-methyl-n desacetylcolchicine* nsc 3096* omain* omaine* reichstein's f.* santavy's substance f* substance f*

1.2 **Identified use:** Cell culture media additive

1.3 **Supplier name & address:** KromaTiD, Inc., 1880 Industrial Circle, Longmont, CO 80501
General information telephone:1 720-815-2898
Competent person e-mail address: info@kromatid.com

1.4 **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

2.1 **GHS Classification:** Not hazardous substance or mixture.

2.2 **GHS label elements, including precautionary statements:** Not hazardous substance or mixture.

2.3 **Hazards not otherwise classified (HNOC) or not covered by GHS:** None

Hazard Statements	Precautionary Statements
No hazard statements required.	No precautionary statements required.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 **Mixtures:** N-Deacetyl-N-methylcolchicinesolution Colcemid™ solution
No components need to be disclosed according to the applicable regulations.

4. FIRST AID MEASURES

4.1 **Skin contact:** In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.
4.2 **Eye contact:** After eye contact: rinse out with plenty of water. Remove contact lenses.
4.3 **Ingestion:** After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.
4.4 **Inhalation:** After inhalation: fresh air. Not expected to be an inhalation hazard under anticipated conditions of normal use of this material.

5. FIRE FIGHTING MEASURES

5.1 **Suitable extinguishing media:** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Water spray. Carbon dioxide (CO_2). Foam. Dry chemical.
5.2 **Unsuitable extinguishing media:** For this substance/mixture no limitations of extinguishing agents are given.
5.3 **Special hazards arising from the substance or mixture:**
Carbon oxides
Hydrogen chloride gas
Sodium oxides
Not combustible.
Ambient fire may liberate hazardous vapors.
5.4 **Advice for fire fighters:** In the event of fire, wear self-contained breathing apparatus.
5.5 **Further information:**
Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

6. ACCIDENTAL RELEASE MEASURES

6.1 **Personal precautions, protective equipment, and emergency procedures:** Advice for non-emergency personnel: Do not breathe vapors, aerosols. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.
6.2 **Environmental precautions:** Do not let product enter drains.
6.3 **Methods for containment and cleaning up:** Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.
6.4 **Disposal:** For disposal see section 13.

7. HANDLING AND STORAGE

7.1 **Precautions for safe handling:** Use personal protective equipment as required. For precautions see section 8.

7.2 **Conditions for safe storage:** Tightly closed container at 2 - 8 °C. Storage class (TRGS 510): 12: Non-Combustible Liquids

7.3 **Specific end uses:** Solution used to culture cells. Laboratory chemicals, Synthesis of substances.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 **Control Parameters**

Ingredients with workplace control parameters
Contains no substances with occupational exposure limit values.

8.2 **Exposure Controls**

Appropriate engineering controls.
Change contaminated clothing. Wash hands after working with substance.
Ensure adequate ventilation, especially in confined areas.

8.3 **Personal protective equipment:**

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

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. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Respiratory protection: Not required; except in case of aerosol formation.

Environmental exposure controls: Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 **Appearance:** Form: liquid
9.2 **Odor:** No data available
9.3 **Odor threshold:** No data available
9.4 **pH:** No data available
9.5 **Melting point/freezing point:** No data available
9.6 **Initial boiling point/boiling range:** Not available
9.7 **Flashpoint:** No data available
9.8 **Evaporation rate:** No data available
9.9 **Flammability (solid/gas):** No data available
9.10 **Lower flammability limit:** No data available
9.11 **Upper flammability limit:** No data available
9.12 **Vapor pressure:** No data available
9.13 **Vapor density**: No data available
9.14 **Relative density:** No data available
9.15 **Solubility:** Soluble
9.16 **Octanol/water partition coefficient:** No data available
9.17 **Autoignition temperature:** No data available
9.18 **Decomposition temperature:** No data available
9.19 **Viscosity:** No data available
9.20 **Explosive properties:** Not classified as explosive.
9.21 **Oxidizing properties:** None

10. STABILITY AND REACTIVITY

10.1. **Reactivity:** No data available
10.2. **Chemical stability:** The product is chemically stable under standard ambient conditions (room temperature).
10.3. **Possibility of hazardous reactions:** Violent reactions possible with:
10.4. The generally known reaction partners of water.
10.5. **Conditions to avoid:** No information available.
10.6. **Incompatible materials:** Strong oxidizing agents, Strong acids
10.7. **Hazardous decomposition products:** In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

1.1. **Pharmacology:** There is no evidence available indicating acute toxicity.
1.2. Acute toxicity (rat, oral): No data available
1.3. **Oral**: No data available
1.4. **Inhalation**: No data available
1.5. **Dermal:** No data available
1.6. **Irritation:** No data available
1.7. **Corrosivity:** No data available
1.8. **Sensitization:** No data available
1.9. **Repeat dose toxicity:** No data available.
1.10. **Carcinogenicity:** Conclusive but not sufficient for classification
1.11. **Mutagenicity:** Conclusive but not sufficient for classification
1.12. **Reproductive effects:** Conclusive but not sufficient for classification
1.13. **Likely routes of exposure:** Ingestion, inhalation, dermal contact
1.14. **Symptoms of over-exposure:** No data available
1.15. **Interactive effects:** No data available
1.16. **Other adverse effects:** No data available

12. ECOLOGICAL INFORMATION

12.1 **Toxicity:** Contains no substances known to be hazardous to the environment or not degradable in wastewater treatment plants.

12.2 **Persistence and degradability:** No data available

12.3 **Bioaccumulative potential:** No data available

12.4 **Mobility in soil:** No data available

12.5 **Results of PBT and vPvB assessments:** PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

12.6 **Other adverse effects:** No data available

13. DISPOSAL CONSIDERATIONS

13.1. **Waste treatment methods:** Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

14. TRANSPORT INFORMATION

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

Further information

Not classified as dangerous in the meaning of transport regulations.

15. REGULATORY INFORMATION

15.1. **US Federal Regulations**

15.1.1. **SARA 302, 311/312, 313:** This product is not regulated by SARA.

15.1.2. **Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61):** This product does not contain HAPs.

15.2. **US State Regulations**

15.2.1. **California Proposition 65:** This product does not contain any Proposition 65 chemicals.

15.2.2. **Massachusetts Right To Know Components**: No components are subject to the Massachusetts Right to Know Act.

15.2.3. **Pennsylvania** Right To Know Components

Water CAS-No. 7732-18-5
sodium chloride CAS-No. 7647-14-5
disodium hydrogen orthophosphate CAS-No. 7558-79-4

15.2.4. **New Jersey Right To Know Components**

water CAS-No. 7732-18-5
sodium chloride CAS-No. 7647-14-5
D-(+)-glucose CAS-No. 50-99-7

15.2.5. **Canadian Regulations**

WHMIS Hazard Class: Non-controlled

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR).

16. OTHER INFORMATION

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
vPvB: Very Persistent and Very Bioaccumulative
WEL: Workplace Exposure Limit

Disclaimer: **KromaTiD, Inc. believes that the information contained in this Safety Data Sheet is accurate, and while it is provided in good faith, it is without warranty of any kind, expressed or implied. The information contained herein is designated only as guidance for safe handling, storage and use of the substance and is not a specification nor does it guarantee any specific properties. Only competent personnel, within a controlled environment should handle all chemicals. KromaTiD, Inc. shall not be held liable for any loss, injury, or damage from contact with the product.**