

SAFETY DATA SHEET

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| Revision Date: | 2021/10/01 | Version: | 5.0 |
| 1, Identification of the substance / mixture and of the company/undertaking | | | |
| Identification of the substance /preparation | | | |
| Product Name: | HFDM-1(-), HFDM-1(+) | | |
| Product No. | 2101P05 2101P10, 2102P05 2102P10 | | |
| For research use only. Not intended for human or animal diagnostic therapeutic uses. | | | |
| Company / Undertaking Identification | | | |
| Manufacturer: | Cell Science & Technology Institute inc. (CSTI) | | |
| Address: | 1-16-16 Seikaen , Aoba-ku Sendai, 982-0262 Japan | | |
| Telephone: | TEL : +81-22-399-6608 FAX : +81-22-399-6638 | | |
| 2, Hazard identification | | | |
| GHS Classification: | No classification | | |
| Classification of the substance or mixture : | Not a hazardous substance or mixture. | | |
| Health hazard: | Not hazardous. | | |
| Physical hazards: | Not hazardous. | | |
| Principle Rutes of Exposure/Potential Health effects | | | |
| Eyes: | May cause eye irritation with susceptible persons. | | |
| Skin: | May cause skin irritation in susceptible persons. | | |
| Ingalation: | May be harmful by inhalation. | | |
| Ingestion: | May be harmful if swallowed. | | |
| Other hazards: | None. | | |
| 3, Composition / information on ingredients | | | |
| Mixtures : | No components need to be disclosed according to the applicable regulations. | | |
| 4, First-aid measures | | | |
| If inhaled: | If breathed in, move person into fresh air. | | |
| Skin contact: | Rinse with plenty of water. If symptoms arise, call a physician. | | |
| Eye contact: | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms arise, call a physician. | | |
| Ingestion: | Never give anything by mouth to an unconscious person. Rinse mouth with water. | | |
| Notes to physician: | Treat symptomatically. | | |
| 5, Fire-fighting measures | | | |
| Suitable extinguishing media: | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. | | |
| Unsuitable extinguishing media: | No data available. | | |
| Special hazards arising from the substance or mixture: | No data available. | | |
| Advice for firefighters: | Wear self contained breathing apparatus for fire fighting if necessary. | | |

| 6, Accidental release measures | |
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| Personal precautions, protective equipment and emergency procedures: | Wear protective glasses, protective gloves. |
| Environmental precautions: | Do not let product enter drains. |
| Methods and materials for containment and cleaning up: | Soak up with inert absorbent material. |
| 7, Handling and storage | |
| Handling: | Avoid contact with skin, eyes and clothing. Wear personal protective equipment. |
| Storage: | Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Recommended storage temperature: 2 - 8 °C |
| 8, Exposure controls/Personal protection | |
| Exposure controls: | Explosion of the product has/ not been confirmed. |
| Individual protection measures: | Respiratory protection: Mask that has been authenticated in the country Hand protection: Chemical resistant gloves Eye protection: Safety glasses (goggles) Skin protection: Protective clothing |
| Control of environmental exposure: | Do not let product enter drains. |
| 9, Physical and chemical properties | |
| Information on basic physical and chemical properties | |
| Physical state: | liquid |
| Color: | Orange to red |
| Odor: | Smell faintly vitamins |
| Melting point/freezing point: | No data available |
| Boiling point or initial boiling point and boiling range: | No data available |
| Flammability: | No data available |
| Lower and upper explosion limit/flammability limit: | No data available |
| Flash point: | No data available |
| Auto-ignition temperature: | No data available |
| Decomposition temperature: | No data available |
| pH: | pH 7-8 |
| Kinematic viscosity: | No data available |
| Solubility: | Water solubility |
| Partition coefficient n-octanol/water(log value): | No data available |

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| Vapour pressure: | No data available |
| Density and/or relative density: | No data available |
| Relative vapour density: | No data available |
| Particle characteristics: | No data available |
| 10, Stability and reactivity | |
| Reactivity: | No data available |
| Chemical stability: | Stable under normal condition. |
| Possibility of hazardous reactions: | None under normal use. |
| Conditions to avoid: | No dangerous reaction known under conditions of normal use. |
| Incompatible materials: | None under normal use. |
| Hazardous decomposition products: | None under normal use. |
| Polymerization: | Hazardous polymerization does not occur. |
| 11, Toxicological information | |
| Acute toxicity (oral/ip): | No data available |
| Skin corrosion/irritation: | No data available |
| Serious eye damage/irritation: | No data available |
| Respiratory or skin sensitization: | No data available |
| Germ cell mutagenicity: | No data available |
| Carcinogenicity: | No data available |
| Reproductive toxicity: | No data available |
| Specific target organ toxicity- single exposure: | No data available |
| Specific target organ toxicity- repeated exposure: | No data available |
| Aspiration hazard: | No data available |
| 12, Ecological Information | |
| Toxicity: | No data available |
| Persistence and degradability: | No data available |
| Bioaccumulative potential: | No data available |
| Mobility in Soil: | No data available |
| Hazardous to the ozone layer: | No data available |
| Other adverse effects: | No data available |
| 13, Disposal Considerations | |
| Dilute with large amount of water, and dispose in a manner consistent with federal, state and local regulation. | |

14, Transport Information

| | IATA | IMO | RID/ARD |
|-----------------|---------------------------|---------------------------|---------------------------|
| Shipping Name: | No information available. | No information available. | No information available. |
| Hazard Class: | Not Regulate | NON | NON |
| UN number: | Not Regulate | NON | NON |
| Transportation: | NON HAZARD | NON HAZARD | NON HAZARD |

15, Regulatory information

Complies

16, Other information

The above information is believed to be correct, however, it may not be all inclusive. This information should be use only as a guide. CELL SCIENCE & TECHNOLOGY, Inc. shall not be held liable for any damage resulting from the handling or contact with the above product.