

Issue Date: 2020/2/25

SAFETY DATA SHEET (SDS)
per OSHA HazCom 2012
According to 1907/2006/EC, Article 31

Section 1. PRODUCT AND COMPANY IDENTIFICATION

Nitta Product : DF concentrated culture medium
Company Name : Nitta Gelatin Inc.
Address : 2-22 Futamata, Yao city, Osaka, Japan
Zip Code : 581-0024
Information department : Quality Assurance Department
Phone number : +81-72-949-5381
E-mail : info-qa@nitta-gelatin.co.jp
Emergency phone number : +81-72-949-5381

Section 2. HAZARDS IDENTIFICATION

Classification according to Regulation (EC) No 1272/2008:

The substance is not classified as hazardous to health or the environment according to the CLP regulation

Classification according to Directive 67/548/EEC or Directive 1999/45/EC:

Not applicable

LABEL ELEMENTS Labeling according to Regulation (EC)No1272/2008

【SYMBOL】 None listed

【SIGNAL WORD】 None listed

HMIS(Hazardous Materials Identification System) Class : 0~4】

| | | |
|------------|---|--|
| HEALTH | 0 | |
| FIRE | 1 | |
| REACTIVITY | 1 | |

【Hazard statement】

May cause an allergic skin reaction. Inhalation may cause allergy, asthma, dyspnea.

【Other hazards】

Results of PBT and vPvB assessment

PBT: Not applicable

vPvB: Not applicable

Section 3. COMPOSITION / INFORMATION ON INGREDIENTS

| | |
|-----------------------|--------------------------------------------------------------------|
| Substance / mixture | : Mixture |
| Chemical name | : DF medium |
| % content | : Purified water 89.7% DME Medium 5% Ham's F12 medium 5.3% |
| CAS number | : Purified water 7732-18-5 DME Medium -- Ham's F12 medium -- |
| EC number | : Purified water 231-791-2 DME Medium -- Ham's F12 medium -- |
| Hazardous ingredients | : None |
| Hazardous impurities | : None |

Impurities and stabilizing additives which are themselves classified and which contribute to the classification of the substance - Not applicable

Section 4. FIRST-AID MEASURES

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| Inhalation | : Excessive inhalation of dust can mechanically impede respiration. Remove from exposure and supply fresh air. If required provide artificial respiration. Get medical aid if cough or other symptoms appear. |
| Skin contact | : Wash off with soap and lukewarm water. If skin irritation or rash occurs, get medical attention/advice. |
| Eye contact | : Even if very small amount contact, rinsing by clean water for at least 15 minutes, and get ophthalmologist's examination. Remove contact lenses, unless it sticks to the eye. Then continue rinsing. |
| Ingestion | : Product is non-hazardous; however, excessive ingestion at once may block a throat. Rinse mouth with water, give about 250 ml of water to dilute in the stomach, and do not induce to vomit. Receive the doctor's treatment (stomach pump) if other symptoms appear. |

Section 5. FIRE FIGHTING PROCEDURES

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| Extinguishing media | : Water (First aid), Chemical powder, Carbon dioxide, Form, and dry sand. (This product cannot ignite, due to presence of excess |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------|

| | |
|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | water) |
| Unsuitable extinguishing media | : In case of large fires, do not use water. |
| General fire hazards | : If this product is involved in a fire, the following can be released - Carbon monoxide and carbon dioxide. Nitrogen oxides (NOx) and Sulfur oxides (SOx) |
| Specific extinction method | : Shut off all sources of ignition. Wear proper protective equipment. After extinguishing, keep personnel out by roping round until inside of material cools. |
| Special protective for fire-fighters | : Wear full body protective clothing with breathing apparatus. |

Section 6. ACCIDENTAL RELEASE MEASURES

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|---------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Personal precautions, Protective equipment and emergency procedures | : Wear protective goggles, gloves and long-sleeved clothing, when handling. |
| Environmental precautions | : Avoid release of this material into sewer, watercourse or river. |
| Removing method | : No special treatment is necessary. In case the product is spilled, vacuum or sweep up the material for disposal. Materials can be disposed of according to local regulations. |
| CAUTION! | : Surface that may be covered with the product will become extremely slippery upon application of water. Wet spills should be thoroughly flushed with lukewarm water until non-slippery. |

Section 7. HANDLING AND STORAGE

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|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| Handling | : It is recommended to use a dust respirator and goggle, if huge amount of dust formation is expected (usually when handling large quantities). |
| Storage condition | : Keep tightly closed. Store in cool and dry place. Store at 4-8°C. |

Section 8. EXPOSURE CONTROL / PERSONAL PROTECTION

| Chemical Name | ACGIH | NIOSH | OSHA-Final PELs |
|---------------|-------|-------|-----------------|
| | | | |

Exposure controls : Using ventilator is recommended when handling. Maintain water supply and eye wash facility nearby.

Control parameters : Not applicable

Engineering measure : Not applicable

Protective Equipment

Respiratory protection : Respirators (protective mask)

Hand protection : Gloves (water resistant)

Eye protection : Normal eyeglasses, normal eyeglasses with side shields, or safety goggles described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin and body protection : Long-sleeved clothing (water resistant) and protective boots.

Proper measure for health : Wash hands thoroughly and gargle after handling, before eating and drinking.

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

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|--------------------------------------------------|----------------------|
| Appearance | : Solution |
| Color | : Pale yellow to red |
| Odor | : Almost odorless |
| pH | : 5.0 – 6.5 |
| Boiling point | : Not applicable |
| Melting point | : Not applicable |
| Flash point | : Not applicable |
| Auto ignition temperature (ignition temperature) | : No data |
| Explosion properties | : No data |
| Vapor pressure | : No data |
| Vapor density | : No data |
| Vapor rate | : No data |
| Specific gravity (relative density) | : No data |
| Decomposition temperature | : No data |
| Solubility | : Soluble in water |
| n-Octanol / water partition coefficient | : No data |

Section 10. STABILITY AND REACTIVITY

Stability : Stable under normal storage and handling

Possibility of hazardous reactions : None

| | |
|-----------------------|-----------------------------------------------------------------|
| Conditions to avoid | : High temperature, high humidity, freezing and direct sunlight |
| Incompatible material | : No data |
| Others | : No information |

Section 11. TOXICOLOGICAL INFORMATION

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|---------------------------------------------------|-----------------------------------------------------------|
| Acute toxicity | : No data |
| LD 50 / LC 50 RTECS | : Not available |
| Skin corrosion / irritation | : No data |
| Serious eye damage / eye irritation | : No data |
| Respiratory / skin sensitization | : No data |
| Germ cell mutagenicity | : No data |
| Carcinogenicity | : Not listed by EPA, ACGIH, IARC, NTP, OSHA or CA Prop 65 |
| Reproductive toxicity | : No data |
| Specific target organ toxicity- single exposure | : No data |
| Specific target organ toxicity- repeated exposure | : No data |
| Aspiration hazard | : No data |
| Others | : No data |

Section 12. ECOLOGICAL INFORMATION

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|-------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| Eco toxicity | : No data |
| Fish toxicity | : No data |
| Environmental fate, persistence and degradability, mobility | : No data |
| General notes | : Do not allow material to be released in the environment without proper governmental permits. |
| Ecological Accumulation | : No data |
| Mobility in soil | : No data |
| Results of PBT and vPvB assessment | |
| PBT | : Not applicable |
| vPvB | : Not applicable |
| Other adverse effects | : No further relevant information available |

Section 13. DISPOSAL CONSIDERATIONS

In case of large quantities, disposal needs to be carried out in compliance with the respective national and local regulations. Dispose of contents/container to waste disposing company having the official approval of laws and regulations. Waste liquid arising from disposal should be properly treated.

Section 14. TRANSPORT INFORMATION

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|----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| International regulation | : DOT, ADN IMDG. IATA |
| UN class of dangerous material in definition of the UN | : Not available |
| UN number | : Not available |
| Packing group | : Not available |
| Marine pollution material | : Not available |
| Domestic regulations | : Follow all regulation on the transport in your country or region |
| Safety measure and condition on transportation | : Protect against tumble, fall, physical damage and direct sunlight during loading to avoid shift in transit |
| Emergency response guideline number | : Not available |
| Transport in bulk according to Annex of MARPOL73/78 and the IBC Code | : Not available |

Section 15. REGULATORY INFORMATION

None

Section 16. OTHER INFORMATION

References

- JIS K 6503-2012
- List of chemical substances of industrial safety and health law

Abbreviations and acronyms

| | |
|------|-----------------------------------------------------------------------|
| GHS | : Globally Harmonized System of classification and labeling chemicals |
| HMIS | : Hazardous Material Identification System (USA) |

| | |
|--------|--------------------------------------------------------------------------|
| PBT | : Persistence Bioaccumulation Toxicity |
| VPvB | : very Persistent and very Bioaccumulative |
| CAS | : Chemical Abstracts Service (division of the American Chemical Society) |
| EINECS | : European Inventory of Existing Commercial Chemical Society |
| ACGIH | : American Conference of Governmental Industrial Hygienists(USA) |
| OSHA | : Occupational Safety and Health Administration (USA) |
| IARC | : International Agency for Research on Cancer |
| EPA | : Environmental Protection Agency (USA) |
| NTP | : National Toxicology Program (USA) |
| DOT | : US Department of Transportation |
| IMDG | : International Maritime Code for Dangerous Goods |
| IATA | : International Air Transport Association |

The above information is given in good faith and to the best of our knowledge.

It is not intended to guarantee specific properties but solely to assist in setting up suitable pre cautionary measures. No guarantee can be given for risks arising from unforeseen circumstance.